

9 September 2020



Curtin University

SSTC Media Report 1 Jan - 1 Sep 2020

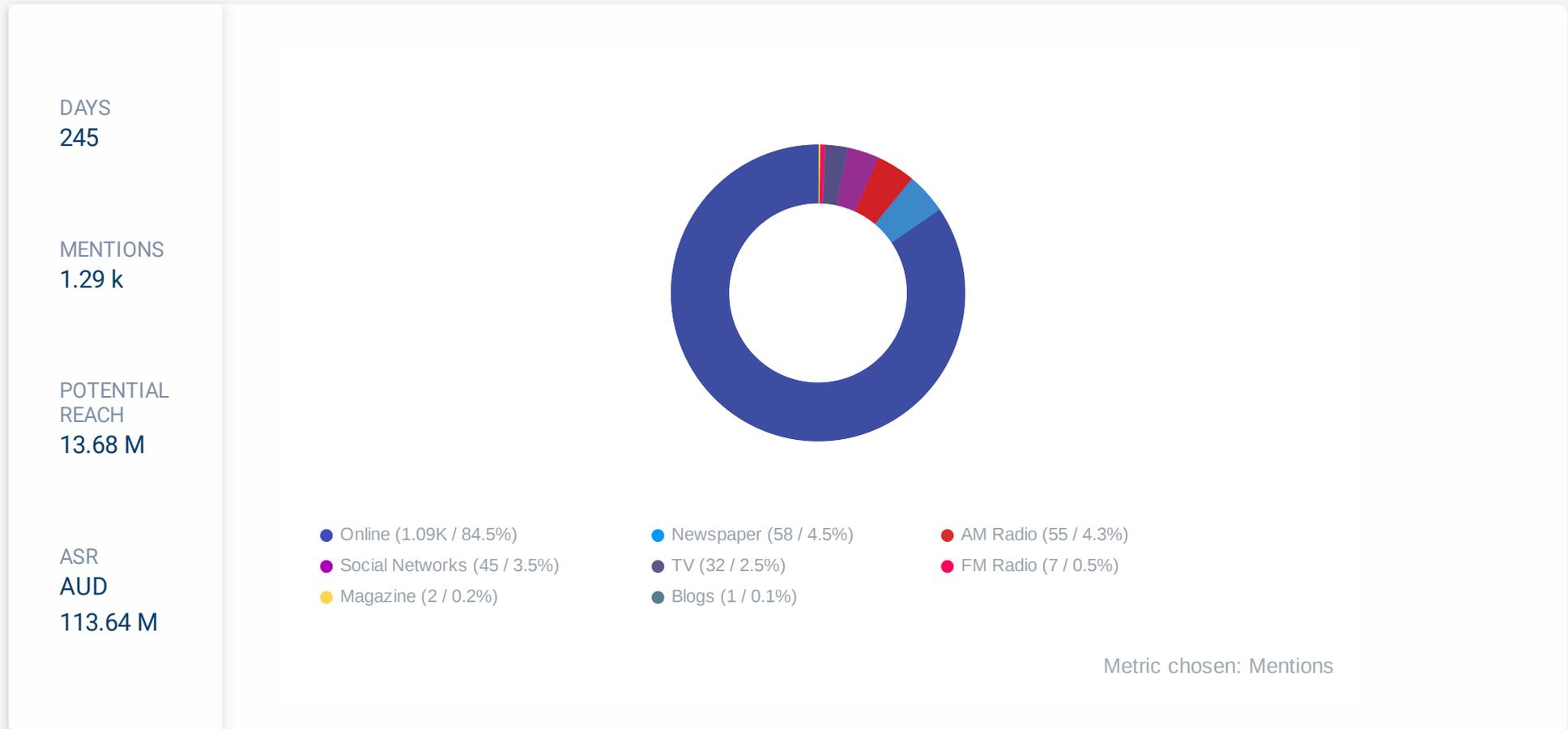
COMMENTARY

An analysis of coverage published measuring volume in the last 245 days between 1 Jan 2020 and 1 Sep 2020 from 1 folder (SSTC) found 1,293 mentions. This coverage reached a cumulative potential reach of 13,682,020 and an ASR of AUD 113,640,445.

The media type with the highest volume was Online with 1,093 mentions

The media type with the highest potential reach was Online with a total Potential Reach of 5,882,552

The media type with the highest ASR was Online with a total ASR of AUD 112,147,303



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MEDIA TYPE	MENTIONS	POTENTIAL REACH	ASR
AM Radio	55	2,618,000	478,224
Blogs	1	0	226,196
FM Radio	7	71,000	3,307
Magazine	2	57,186	36,416
Newspaper	58	2,613,998	350,637
Online	1,093	5,882,552	112,147,303
Social Networks	45	181,284	0
TV	32	2,258,000	398,362

 **Earth's water came from space, but not in the way we thought**

27 Aug 2020 7:30PM • NZCity

Brief: SSTC • 618 words • Market: Australia • Item ID: 1324366684

According to textbooks, Earth was dry before it was bombarded by water-containing rocks from the icy outer solar system. But that's not what a new study has found. Earth has vast oceans today, but our planet was a dry rock when it first formed — and...

AUD 24  156[Read on source site](#)
 **Research grants announced for WA**

27 Aug 2020 12:50AM • Australian Defence Magazine

Brief: SSTC • 362 words • Market: Australia • Item ID: 1323893266

2 / 3 free articles left.WA's Defence industry will be boosted with research grants worth almost \$900,000 from the federal and WA governments. Minister for Defence Industry Melissa Price and WA State Defence Issues Minister Paul Papalia have announced...

AUD 188  736[Read on source site](#)
 **Earth's water came from space, but not in the way we thought**

27 Aug 2020 6:12PM • WEB MSN Australia

Brief: SSTC • 920 words • Market: Australia • Item ID: 1324334716

That's what the textbooks say, but new research published today in the journal Science , adds weight to a competing idea that Earth was actually born 'wet'. Water is abundant in space and is made up of hydrogen created in the Big Bang and oxygen...

[Read on source site](#)
 **Celebrate WA's role in global space industry**

27 Aug 2020 12:00AM • Countryman

Brief: SSTC • 345 words • Market: Australia • Item ID: 1323080963

I note Tina Spadaccini's acknowledgement of the addition of the CSIRO Parkes Radio Telescope to the National Heritage List (The West Australian, Letters, 17/8). We should also recognise the role WA has played in the space race. WA has a long history of involvement in the international space program.

AUD 704  5,182[View original](#)
 **Earth's water came from space, but not in the way we thought**

27 Aug 2020 5:08PM • ABC Online by By Anna Salleh



Brief: SSTC • 1141 words • Market: Australia • Item ID: 1324314463

Earth has vast oceans today, but our planet was a dry rock when it first formed — and water was a late addition, rained down in asteroids from the icy outer solar system. That's what the textbooks say, but new research published today in the journal...

AUD 19,851  6,513[Read on source site](#)

**AusIMM's Thought Leadership Series: Presentation 5**

26 Aug 2020 4:31AM • austmine.com.au

Brief: SSTC • 330 words • Market: Australia • Item ID: 1323389097

AusIMM's Thought Leadership Online Series provides the opportunity to hear from some of the biggest names in our industry addressing the future frontiers in technology, social value, cyber security, investment, space mining, and reviewing the global...

AUD 44 120

[Read on source site](#)**Asteroid 2018 VP1 may be heading for Earth. But there's no need to worry**

25 Aug 2020 7:58PM • tagg.com.au

Brief: SSTC • 1152 words • Market: Australia • Item ID: 1323225598

Asteroid 2018 VP1 itself is too small and far away to see clearly, so here's an artist's impression of a near-Earth object. NASA / JPL-Caltech Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known...

AUD 22 20

[Read on source site](#)**Interview It's a really fortunate case that this thing is very Likely to hit as it so one in 240 chance of nobody ever s...**

25 Aug 2020 8:29PM • ABC Radio Brisbane by Kelly Higgins-Devine

Brief: SSTC • 304 words • Market: Australia • Item ID: R00083915533

Interview It's a really fortunate case that this thing is very Likely to hit as it so one in 240 chance of nobody ever says it's a 1 into 40 chance, but it might just work one of them 240 chance, but even if it does hit us it'll just burn up harmlessly in the atmosphere. It's only about same size as me. It's about 6 foot long. So bless it. It will ...

AUD 1,648 6,300

Also broadcast from: ABC North West Qld (Mt Isa), ABC Wide Bay (Bundaberg), ABC Western Queensland (Longreach), ABC Gold Coast (Gold Coast), ABC Sunshine Coast (Sunshine Coast) and 5 more

**ECU research to benefit from defence industry funding**

25 Aug 2020 8:15AM • Perth Now



Brief: SSTC • 182 words • Market: Australia • Item ID: 1322914019

THREE ECU-led research projects will share in \$445,000 of Federal and State funding to boost WA's defence industry. The projects will focus on virtual reality-enhanced advanced tactical parachute training, categorising lower body injury risk in recruit...

AUD 1,616 2,931

[Read on source site](#)**An Asteroid is Headed for Earth (It's 2020, After All)**

25 Aug 2020 6:13AM • nationalinterest.org by Jonti Horner

Brief: SSTC • 1078 words • Market: Australia • Item ID: DA0059526333

Even if Earth is in the crosshairs, though, there's nothing to worry about. Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known as 2018 VP₁) could crash into Earth on November 2. It seemed only fitting. ...

[Read on source site](#)


Asteroid 2018 VP1 May Be Heading for Earth, But There's No Need to Worry

 25 Aug 2020 3:02AM • Gizmodo Australia by Gizmodo International
 Brief: SSTC • 1102 words • Market: Australia • Item ID: 1322782043

Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known as 2018 VP1) could crash into Earth on November 2. It seemed only fitting. What better way to round off a year that has seen catastrophic floods,...

 AUD 2,576  1,416

[Read on source site](#)

Asteroid 2018 VP1 may be heading for Earth, but there's no need to worry

 24 Aug 2020 9:18AM • stuff.co.nz by Jonti Horner
 Brief: SSTC • 1110 words • Market: Australia • Item ID: 1322059794

Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known as 2018 VP1) could crash into Earth on November 2. It seemed only fitting. What better way to round off a year that has seen catastrophic...

 AUD 1,725  3,536

[Read on source site](#)

Asteroid 2018 VP1 may be heading for Earth. But there's no need to worry

 25 Aug 2020 1:24AM • Australian Geographic
 Brief: SSTC • 1164 words • Market: Australia • Item ID: 1322751659

Here's why. By Jonti Horner • August 25, 2020 • Reading Time: Minutes
 Image credit: NASA / JPL-Caltech Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known as 2018 VP1) could crash into Earth on...

AUD 3,575

[Read on source site](#)

In fact, there's a global network of Fireball Cameras, an initiative being led by our colleagues @CurtinUni, designed fo...

 24 Aug 2020 6:15AM • Twitter by Jonti Horner
 Followers: 1340 • Following: 1518 • Tweets: 16045 • Item ID: DS0156960765

In fact, there's a global network of Fireball Cameras, an initiative being led by our colleagues @CurtinUni, designed for exactly that kind of event. They tweet on here as @FireballsSky, and have an awesome website (<https://t.co/Hd37QpzFZP>)

 1,340

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

Asteroid 2018 VP1, may be heading for Earth. But there's no need to worry

 24 Aug 2020 2:20PM • physorg.com by Jonti Horner
 Brief: SSTC • 1069 words • Market: Australia • Item ID: DA0059500551

Asteroid 2018 VP1 itself is too small and far away to see clearly, so here's an artist's impression of a near-Earth object. Credit: NASA / JPL-Caltech August 24, 2020 by Jonti Horner, Social media around the world lit up over the weekend, discussing the po...

[Read on source site](#)



Asteroid 2018 VP1 may be heading for Earth. But there's no need to worry

24 Aug 2020 6:04AM • Australasian Science
Brief: SSTC • 1403 words • Market: Australia • Item ID: 1321986118

By Jonti Horner, Professor (Astrophysics), University of Southern QueenslandNASA / JPL-Caltech Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known as 2018 VP1) could crash into Earth on November...

AUD 435  323

[Read on source site](#)



Asteroid 2018 VP1 may be heading for Earth. But there's no need to worry

24 Aug 2020 6:04AM • eveningreport.nz
Brief: SSTC • 1279 words • Market: Australia • Item ID: 1321986121

Article sponsored by NewzEngine.comSource: The Conversation (Au and NZ) – By Jonti Horner, Professor (Astrophysics), University of Southern Queensland Social media around the world lit up over the weekend, discussing the possibility that an asteroid...

[Read on source site](#)



Asteroid 2018 VP1 may be heading for Earth. But there's no need to worry

24 Aug 2020 6:00AM • The Conversation by Jonti Horner
Brief: SSTC • 1243 words • Market: Australia • Item ID: 1321984736

Professor (Astrophysics), University of Southern Queensland Social media around the world lit up over the weekend, discussing the possibility that an asteroid (known as 2018 VP1) could crash into Earth on November 2. It seemed only fitting. What...

AUD 15,178  10,398

[Read on source site](#)



archTIS advances Kojensi platform sales in the defence sector

24 Aug 2020 5:29AM • Proactive Investors Australia
Brief: SSTC • 625 words • Market: Australia • Item ID: 1321974648

The company is focused on developing its Kojensi platform sales pipeline to commercial clients in the Defence Industry and Space sectors. Quick facts: archTIS Ltd archTIS Ltd (ASX:AR9) launched a campaign at the start of 2020 to target the Australian...

AUD 179  162

[Read on source site](#)



Curtin-led research projects awarded WA defence funding

23 Aug 2020 9:18PM • defenceconnect.com.au by Sandy Milne
 Brief: SSTC • 350 words • Market: Australia • Item ID: 1321855953

Two Curtin University-led research projects that aim to improve Australia's defence and national security capabilities have been awarded funding in the latest round of the Defence Science Centre (DSC) Collaborative Research Grants. Announced on Friday...

AUD 981  1,084

[Read on source site](#)

**WA leads the way in exploring space**

22 Aug 2020 12:00AM • Weekend West



Brief: SSTC • 352 words • Market: Australia • Item ID: 1320707468

I note Tina Spadaccini's acknowledgement of the addition of the CSIRO Parkes Radio Telescope to the National Heritage List (Letters, 17/8). We should also recognise the role Western Australia has played in the space race. WA has a long history of involvement in the international space program.

AUD 5,469 205,782

[View original](#)**Western Australia industry gets Defence research grants**

20 Aug 2020 4:05AM • Asia Pacific Defence Reporter by By APDR -

Brief: SSTC • 549 words • Market: Australia • Item ID: 1319782446

Western Australia's Defence industry will be boosted with research grants worth almost A\$900,000 from the state and federal governments. Federal Minister for Defence Industry Melissa Price and WA State Defence Issues Minister Paul Papalia announced...

AUD 628 881

[Read on source site](#)**Research grants to strengthen WA's defence industry**

20 Aug 2020 3:53AM • Department of Defence

Brief: SSTC • 535 words • Market: Australia • Item ID: 1319778094

Federal Minister for Defence Industry Melissa Price and WA State Defence Issues Minister Paul Papalia today announced six grants in the second round of the WA Defence Science Centre's (DSC) Collaborative Research Grants. DSC is one of five state-based...

[Read on source site](#)**Curtin-led research projects awarded WA defence funding**

20 Aug 2020 3:18AM • nationaltribune.com.au

Brief: SSTC • 246 words • Market: Australia • Item ID: 1319767542

Two Curtin University-led research projects that aim to improve Australia's defence and national security capabilities have been awarded funding in the latest round of The Defence Science Centre (DSC) Collaborative Research Grants. Announced today by...

[Read on source site](#)**Curtin-led research projects awarded WA defence funding**

20 Aug 2020 3:17AM • miragenews.com



Brief: SSTC • 377 words • Market: Australia • Item ID: 1319766875

Two Curtin University-led research projects that aim to improve Australia's defence and national security capabilities have been awarded funding in the latest round of The Defence Science Centre (DSC) Collaborative Research Grants. Announced today by...

AUD 338 167

[Read on source site](#)**Curtin-led research projects awarded WA defence funding**

20 Aug 2020 3:13AM • Curtin University Australia

Brief: SSTC • 375 words • Market: Australia • Item ID: 1319765480

Two Curtin University-led research projects that aim to improve Australia's defence and national security capabilities have been awarded funding in the latest round of The Defence Science Centre (DSC) Collaborative Research Grants. Announced today by...

AUD 1,152

[Read on source site](#)

Joint media statement - Research grants to strengthen WA's defence industry

20 Aug 2020 3:05AM • Media Statements

Brief: SSTC • 630 words • Market: Australia • Item ID: 1319763422

WA's Defence industry will be boosted with research grants worth almost \$900,000 from the Morrison and McGowan governments. Federal Minister for Defence Industry Melissa Price and WA Defence Issues Minister Paul Papalia today announced six grants in th...

AUD 560  676

[Read on source site](#)

Interview That's what I say is in the Curtin University Space Science and Technology centre ending Bridget Fitzgerald to...

 12 Aug 2020 8:52AM • ABC Broken Hill by Andrew Schmidt

Brief: SSTC • 535 words • Market: Australia • Item ID: R00083739882

Interview That's what I say is in the Curtin University Space Science and Technology centre ending Bridget Fitzgerald to report the national Broadband network has been an unexpected winner during the pandemic with many Australians relying on the internet to work from home and teach their kids the MBM boosted capacity by 40% during the early days of...

AUD 358

Interview Renee say is is the research Ambassador for the Space Science and Technology centre at Curtin University, whic...

 12 Aug 2020 8:51AM • ABC Broken Hill by Andrew Schmidt

Brief: SSTC • 122 words • Market: Australia • Item ID: R00083739823

Interview Renee say is is the research Ambassador for the Space Science and Technology centre at Curtin University, which is preparing to launch its first West Australian designed and assembled spacecraft early next year if we want to look at It from an economic point of view. It just makes sense to do the investing. But when we look at the other e...

AUD 78

Report by Bridget Fitzgerald, ABC. Large numbers of science professionals are allegedly out of work or having their hour...

 12 Aug 2020 8:18AM • ABC Radio Canberra by Sabra Lane

Brief: SSTC • 181 words • Market: Australia • Item ID: X00083739464

Report by Bridget Fitzgerald, ABC. Large numbers of science professionals are allegedly out of work or having their hours cut as many important projects are put on hold. Melbourne-based clinical neuropsychologist Dr Anita Goh has been unable to further her research into aged care and dementia following the restrictions. Instead, she has been releg...

AUD 52,905  423,500

Also broadcast from: ABC Shepparton (Shepparton), ABC Ballarat (Ballarat), ABC Goulburn Murray (Wodonga), ABC Wimmera (Horsham), ABC Eyre Peninsula and West Coast (Port Lincoln) and 44 more

Report by Bridget Fitzgerald, ABC. Large numbers of science professionals are allegedly out of work or having their hour...

 12 Aug 2020 7:17AM • Radio National by Sabra Lane

Brief: SSTC • 182 words • Market: Australia • Item ID: X00083737645

Report by Bridget Fitzgerald, ABC. Large numbers of science professionals are allegedly out of work or having their hours cut as many important projects are put on hold. Melbourne-based clinical neuropsychologist Dr Renee De Gough(*) has been unable to further her research into aged care and dementia following the restrictions. Instead, she has bee...

AUD 66,896  175,000

Also broadcast from: Radio Australia (Asia Pacific) (Sydney), Radio National (Newcastle), Radio National (Darwin), Radio National (Adelaide), Radio National (Hobart) and 4 more

**Interview Only two years old now Renee says from Curtin University Space Science and Technology centre in Being Bridget ...**

12 Aug 2020 6:41AM • ABC Broken Hill by Andrew Schmidt
Brief: SSTC • 262 words • Market: Australia • Item ID: R00083736600

Interview Only two years old now Renee says from Curtin University Space Science and Technology centre in Being Bridget Fitzgerald's report applying for government payment can be quite daunting and the task can be even tougher. If you don't understand the types of doctors reports and information you're required to collect a new online tools been de...

AUD 1,035

Also broadcast from: ABC Eyre Peninsula and West Coast (Port Lincoln), ABC Riverland SA (Renmark), ABC South East SA (Mt Gambier), ABC North and West SA (Port Pirie)

**Interview but to assist in navigating the economic recovery as well studies estimate for every one dollar the US governm...**

12 Aug 2020 6:40AM • ABC Broken Hill by Andrew Schmidt
Brief: SSTC • 130 words • Market: Australia • Item ID: R00083736555

Interview but to assist in navigating the economic recovery as well studies estimate for every one dollar the US government spends on NASA. The economy is boosted by about seven to fourteen dollars. Renee say is is the research Ambassador for the Space Science and Technology centre at Curtin University, which is preparing to launch its first West A...

AUD 450

Also broadcast from: ABC Eyre Peninsula and West Coast (Port Lincoln), ABC Riverland SA (Renmark), ABC South East SA (Mt Gambier), ABC North and West SA (Port Pirie)

**Pre-recorded Interview with Curtin University's Space Science and Technology Centre Research Ambassador Renae Sayers. Sa...**

12 Aug 2020 6:10AM • ABC Northern Tasmania by Belinda King
Brief: SSTC • 83 words • Market: Australia • Item ID: X00083746465

Pre-recorded Interview with Curtin University's Space Science and Technology Centre Research Ambassador Renae Sayers. Sayers says studies estimate that for every \$1 spent by the US on NASA, the economy is boosted by about \$7 to \$14. Compere says the Space Science and Technology Centre is preparing to launch its first WA-designed and assembled space...

AUD 98

**Report by Bridget Fitzgerald, ABC. Large numbers of science professionals are allegedly out of work or having their hour...**

12 Aug 2020 6:08AM • ABC Radio Canberra by Sabra Lane
Brief: SSTC • 182 words • Market: Australia • Item ID: X00083736883

Report by Bridget Fitzgerald, ABC. Large numbers of science professionals are allegedly out of work or having their hours cut as many important projects are put on hold. Melbourne-based clinical neuropsychologist Dr Renee De Gough(*) has been unable to further her research into aged care and dementia following the restrictions. Instead, she has bee...

AUD 35,427 288,800

Also broadcast from: ABC Broken Hill (Broken Hill), ABC Coffs Coast (Coffs Harbour), ABC Central West NSW (Orange), ABC Western Plains NSW (Dubbo), ABC Radio Sydney (Sydney) and 36 more

 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Clive R. Neal
Followers: 1175 • Following: 257 • Tweets: 17564 • Item ID: DS0155450462

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI> ☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 1,175

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Anthony Horton
Followers: 878 • Following: 834 • Tweets: 27182 • Item ID: DS0155473851

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI> ☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 878

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Business Media Channel
Followers: 64 • Following: 589 • Tweets: 7030 • Item ID: DS0155474016

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI> ☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 64

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 **The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team...**

11 Aug 2020 8:01AM • Twitter by Australian Space Agency (AusSpaceAgency)
Followers: 20244 • Following: 334 • Tweets: 1921 • Item ID: DS0155356846

The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI> ☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 20,244

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by RememberingMunz
Followers: 295 • Following: 287 • Tweets: 4766 • Item ID: DS0155357101

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. <https://t.co/Z2L01N7GDI>
@CurtinUni <https://t.co/nn5Q8sDr7N>

 295

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Maths & Happiness *endurance tested happiness (Maths and Happiness)
Followers: 574 • Following: 2946 • Tweets: 17995 • Item ID: DS0155473898

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. <https://t.co/Z2L01N7GDI>
@CurtinUni <https://t.co/nn5Q8sDr7N>

 574

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Anthony Murfett
Followers: 2146 • Following: 796 • Tweets: 1055 • Item ID: DS0155367742

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. <https://t.co/Z2L01N7GDI>
@CurtinUni <https://t.co/nn5Q8sDr7N>

 2,146

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by ScienceGovAu
Followers: 13007 • Following: 1148 • Tweets: 6974 • Item ID: DS0155473185

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. <https://t.co/Z2L01N7GDI>
@CurtinUni <https://t.co/nn5Q8sDr7N>

 13,007

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Skytürkoğlu
Followers: 354 • Following: 208 • Tweets: 15481 • Item ID: DS0155533251

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Mike Simmons
Followers: 915 • Following: 54 • Tweets: 7439 • Item ID: DS0155406328

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 915

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Kate TRINAJSTIC
Followers: 264 • Following: 467 • Tweets: 637 • Item ID: DS0155446736

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by Penny King
Followers: 239 • Following: 336 • Tweets: 208 • Item ID: DS0155401403

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 239

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by NSSA
Followers: 282 • Following: 108 • Tweets: 586 • Item ID: DS0155443173

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 282

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by SpaceAustralia.com (SpaceAusDotCom)
Followers: 1515 • Following: 1250 • Tweets: 2910 • Item ID: DS0155356942

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 1,515

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by AndTheyAllFellDown☐ (tavianne)
Followers: 4738 • Following: 1722 • Tweets: 54185 • Item ID: DS0155358196

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 4,738

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 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by WearyBonnie
Followers: 1062 • Following: 1394 • Tweets: 103948 • Item ID: DS0155359283

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 1,062

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nulla...**

11 Aug 2020 8:01AM • Twitter by STEM Punks
Followers: 164 • Following: 88 • Tweets: 513 • Item ID: DS0155423125

RT @AusSpaceAgency: The @FireballsSky team are now rock stars! 2 fresh meteorite discoveries have been made on the Nullarbor Plain. The team learns more about meteorites on Earth by analysing data collected from cameras known as the Desert Fireball Network. ☐☐ <https://t.co/Z2L01N7GDI>
☐ @CurtinUni <https://t.co/nn5Q8sDr7N>

 164

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 **RT @CurtinUni: @CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recentl...**

11 Aug 2020 5:19AM • Twitter by Patrick Shober
Followers: 166 • Following: 148 • Tweets: 143 • Item ID: DS0155406845

RT @CurtinUni: @CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recently spoke to @ParticleWA on what craters can teach us about the red planet.

 166

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 **RT @CurtinUni: @CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recentl...**

11 Aug 2020 5:19AM • Twitter by Chris Moran
Followers: 231 • Following: 353 • Tweets: 1968 • Item ID: DS0155396641

RT @CurtinUni: @CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recently spoke to @ParticleWA on what craters can teach us about the red planet.

 231

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 **@CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recently spoke to @Par...**

11 Aug 2020 5:19AM • Twitter by Curtin University
Followers: 37102 • Following: 1956 • Tweets: 9607 • Item ID: DS0155336704

@CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recently spoke to @ParticleWA on what craters can teach us about the red planet.

 37,102

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @CurtinUni: @CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recentl...**

11 Aug 2020 5:19AM • Twitter by Kate TRINAJSTIC
Followers: 265 • Following: 467 • Tweets: 632 • Item ID: DS0155351152

RT @CurtinUni: @CurtinUni #PhD candidate Andrea Rajšic, who is helping @NASA detect #meteorite impacts on #Mars, recently spoke to @ParticleWA on what craters can teach us about the red planet.
<https://t.co/gOXvYApNIE>

 265

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


Schiller is joined by ABC doctor Alice Gorman. Gorman says the Perseid meteor shower will happen in August. She states i...

 10 Aug 2020 6:21PM • ABC Radio Adelaide by Jules schiller
 Brief: SSTC • 68 words • Market: Australia • Item ID: X00083715947

Schiller is joined by ABC doctor Alice Gorman. Gorman says the Perseid meteor shower will happen in August. She states it is the perfect time to stargaze. She suggests going to lesser lit areas to stargaze. Gorman says there are amateur astronomy groups across Adelaide. She states there is an observatory in Stockport. She recommends Constellation a...

 AUD 1,161  8,000


Desert Fireball Network Scientists Find 2 Meteorites in 2 Weeks

 08 Aug 2020 12:13PM • visiontimes.com by https://www.facebook.com/troy.oakes
 Brief: SSTC • 730 words • Market: Australia • Item ID: DA0058931534

Curtin University researchers have discovered two meteorites in a two-week period on the Nullarbor Plain — one freshly fallen and the other from November 2019. Both falls were captured by The Desert Fireball Network (DFN) team, which uses cameras across A...

AUD 1,291,787

[Read on source site](#)

Arecibo Observatory returns from tropical storm Isaias lockdown to track asteroid for NASA

 06 Aug 2020 7:00PM • brightsurf.com
 Brief: SSTC • 1063 words • Market: Australia • Item ID: DA0058861419

The Earth has one less asteroid to worry about thanks to the research of an international team of scientists at the Arecibo Observatory in Puerto Rico. Asteroid 2020 NK1 was spotted in early July by the Asteroid Terrestrial-impact Last Alert System (ATLAS)...

[Read on source site](#)

Interview The origin of the Earth's gold is really interesting in itself and Some of it may have come from asteroids Col...

 05 Aug 2020 9:49PM • ABC Radio Sydney by Sarah MacDonald
 Brief: SSTC • 643 words • Market: Australia • Item ID: R00083658979

Interview The origin of the Earth's gold is really interesting in itself and Some of it may have come from asteroids Collide it will rich in gold which have collided with the Earth because one of the one of the things about planet formation is that the planet planets are very hot and in their early youth. So what happens is all the heavy stuff melt...

 AUD 7,048  32,600

Also broadcast from: ABC North Coast NSW (Lismore), ABC Newcastle (Newcastle), ABC Coffs Coast (Coffs Harbour), ABC Central West NSW (Orange), ABC Western Plains NSW (Dubbo) and 7 more


Regular Segment: Astronomy with Dr Fred Watson, astronomer. Watson says Curtin University's Desert Fireball Network trac...

 05 Aug 2020 9:48AM • ABC Ballarat by Steve Martin
 Brief: SSTC • 87 words • Market: Australia • Item ID: X00083650020

Regular Segment: Astronomy with Dr Fred Watson, astronomer. Watson says Curtin University's Desert Fireball Network tracks down a 115-gram meteorite which fell in WA. He adds DFN founder Professor Phil Bland said the fireball was picked up by their team's cameras across WA and SA which helped them find where the meteorite landed. Watson states rese...

AUD 1,275

**'Meteorite hunters' make unique discovery**

05 Aug 2020 12:00AM • Canning Examiner

Brief: SSTC • Market: Australia • Item ID: 1312460323

Local researchers have discovered two meteorites in a two-week period on the Nullarbor Plain - one freshly fallen and another one which fell to earth in November 2019. Both falls were captured by The Desert Fireball Network (DFN) team, which uses cameras across Australia to observe shooting stars and predict where meteorites land. This year the sea...

AUD 1,048 29,603

[View original](#)**Curtin Uni scientists discover two meteorites in two weeks**

04 Aug 2020 11:13PM • spaceconnectonline.com.au

Brief: SSTC • 637 words • Market: Australia • Item ID: 1312403080

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain – one freshly fallen and the other from November 2019. The researchers, part of the Desert Fireball Network (DFN), observed both falls as shooting...

AUD 1,939

[Read on source site](#)**Hanya 2 Minggu, Ilmuwan Temukan 2 Meteorit**

04 Aug 2020 4:56AM • msn.com/id-id by Lintang Siltya Utami

Brief: SSTC • 217 words • Market: Australia • Item ID: DA0058743274

Suara.com - Meteorit atau batu meteor yang berhasil mencapai permukaan Bumi, membantu para ilmuwan memahami bagaimana batu di tata surya terbentuk, tetapi untuk menemukan batuan tersebut tidak selalu mudah. Namun, para peneliti dari Curtin University, Aus...

[Read on source site](#)**Hanya 2 Minggu, Ilmuwan Temukan 2 Meteorit**

04 Aug 2020 4:15AM • today.line.me/id

Brief: SSTC • 308 words • Market: Australia • Item ID: DA0058741778

See detailIlustrasi meteorit. (Shutterstock)Suara.com - Meteorit atau batu meteor yang berhasil mencapai permukaan Bumi, membantu para ilmuwan memahami bagaimana batu di tata surya terbentuk, tetapi untuk menemukan batuan tersebut tidak selalu mudah. Namu...

[Read on source site](#)**Hanya 2 Minggu, Ilmuwan Temukan 2 Meteorit**

04 Aug 2020 4:04AM • suara.com by Dythia Novianty Lintang Siltya

Brief: SSTC • 232 words • Market: Australia • Item ID: DA0058741391

Para peneliti dari Curtin University, Australia, berhasil menemukan dua meteorit hanya dalam kurun waktu dua minggu.Suara.com - Meteorit atau batu meteor yang berhasil mencapai permukaan Bumi, membantu para ilmuwan memahami bagaimana batu di tata surya te...

[Read on source site](#)**2020 Premier's Science Awards finalists announced**

04 Aug 2020 1:35AM • getregional.com.au

Brief: SSTC • 225 words • Market: Australia • Item ID: 1311854481

A total of 19 ground-breaking Western Australian scientists have been named as finalists in 2020's Premier's Science Awards. The list of finalists in the awards, which recognise and celebrate the outstanding scientific research and engagement taking...

AUD 967

[Read on source site](#)



Renowned Curtin astronomer leads Premier's Science Awards nominations

04 Aug 2020 12:53AM • Curtin University Australia
Brief: SSTC • 1058 words • Market: Australia • Item ID: 1311842702

Four Curtin University researchers and three of the University's programs have been named as finalists in the prestigious Premier's Science Awards 2020. John Curtin Distinguished Professor Steven Tingay, a world-renowned astronomer from Curtin's...

AUD 3,084

[Read on source site](#)



2020 Premier's Science Awards finalists announced

04 Aug 2020 12:27AM • Media Statements
Brief: SSTC • 528 words • Market: Australia • Item ID: 1311835574

19 inspiring WA scientists named as finalists in Premier's Science Awards McGowan Government prioritising Science, Technology, Engineering and Mathematics (STEM) to encourage a globally competitive workforce
Winners to be announced on September 29,...

AUD 517  676

[Read on source site](#)



2020 Premier's Science Awards finalists announced

04 Aug 2020 12:44AM • nationaltribune.com.au
Brief: SSTC • 164 words • Market: Australia • Item ID: 1311840459

19 inspiring WA scientists named as finalists in Premier's Science Awards McGowan Government prioritising Science, Technology, Engineering and Mathematics (STEM) to encourage a globally competitive workforce
Winners to be announced on September 29, 202...

[Read on source site](#)



Hanya 2 Minggu, Ilmuwan Temukan 2 Meteorit

04 Aug 2020 12:00AM • suara.com by Dythia Novianty, Lintang Siltya Utami
Brief: SSTC • 332 words • Market: Australia • Item ID: 1311908932

Para peneliti dari Curtin University, Australia, berhasil menemukan dua meteorit hanya dalam kurun waktu dua minggu. Suara.com - Meteorit atau batu meteor yang berhasil mencapai permukaan Bumi, membantu para ilmuwan memahami bagaimana batu di tata...

[Read on source site](#)



2020 Premier's Science Awards finalists announced

04 Aug 2020 12:41AM • miragenews.com
Brief: SSTC • 474 words • Market: Australia • Item ID: 1311839490

19 inspiring WA scientists named as finalists in Premier's Science Awards McGowan Government prioritising Science, Technology, Engineering and Mathematics (STEM) to encourage a globally competitive workforce
Winners to be announced on September 29,...

AUD 490  167

[Read on source site](#)



Desert fireball rocks

03 Aug 2020 7:37AM • miningmonthly.com
Brief: SSTC • 18 words • Market: Australia • Item ID: 1311429750

WESTERN Australian researchers from Curtin University have found two meteorites in two weeks on the Nullarbor Plain.

AUD 2  46

[Read on source site](#)



Jarang Terjadi, Peneliti Temukan Dua Meteorit dalam Waktu Dua Minggu

03 Aug 2020 4:49AM • nationalgeographic.co.id by Gita Laras Widyaningrum
Brief: SSTC • 45 words • Market: IND • Item ID: DA0058703683

Nationalgeographic.co.id – Dua peneliti dari Curtin University berhasil menemukan dua meteorit dalam kurun waktu dua minggu di Dataran Nullarbor, Australia. Proses jatuhnya kedua meteorit ini terlihat oleh The Desert Fireball Network (DFN), jaringan kamera...

[Read on source site](#)



Scientists Find Two Meteorites in Two Weeks

02 Aug 2020 12:43PM • spacedaily.com
Brief: SSTC • 700 words • Market: Australia • Item ID: DA0058688939

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain - one freshly fallen and the other from November 2019. Both falls were captured by The Desert Fireball Network (DFN) team which uses cameras across Aus...

[Read on source site](#)



Scientists Find Two Meteorites in Two Weeks

02 Aug 2020 12:43PM • Space Daily
Brief: SSTC • 725 words • Market: Australia • Item ID: 1311176425

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain - one freshly fallen and the other from November 2019. Both falls were captured by The Desert Fireball Network (DFN) team which uses cameras across...

AUD 844  1,168

[Read on source site](#)



Nullarbor lucky find nets two meteorites

01 Aug 2020 12:00AM • Kalgoorlie Miner
 Brief: SSTC • 317 words • Market: Australia • Item ID: 1310565256

Two meteorites have been discovered on the Nullarbor Plain by Curtin University researchers in the space of two weeks. Both falls - one recent and one from late-2019 - were captured by The Desert Fireball Network team which uses cameras across Australia to observe shooting stars and predict where meteorites land.

AUD 990  4,118

[View original](#)



Pre-recorded interview with Dr Ellie Sansom, Curtin University. Samson discusses how the Desert Fireball Network helped ...

31 Jul 2020 7:23AM • ABC Esperance by Emily Smith
 Brief: SSTC • 47 words • Market: Australia • Item ID: X00083595250

Pre-recorded interview with Dr Ellie Sansom, Curtin University. Samson discusses how the Desert Fireball Network helped her team in finding the two meteorites at Nullarbor and Madura. She says the DFN is a series of cameras located around Outback Australia, which can take pictures of shooting stars.

AUD 769


Pre-recorded interview with Dr Ellie Sansom and Dr Adrian Sutinjo, Curtin University. Sansom says they have discovered o...

 31 Jul 2020 7:14AM • ABC Esperance by Emily Smith
 Brief: SSTC • 34 words • Market: Australia • Item ID: X00083595105

Pre-recorded interview with Dr Ellie Sansom and Dr Adrian Sutinjo, Curtin University. Sansom says they have discovered one meteorite around the Nullarbor area last November and unearthed another one recently at the Madura area. Sutinjo says the meteorite he found at Madura is around 6byo.

AUD 757


Perth researchers believe they have found two major cosmic discoveries in the WA outback. Researchers found two meteorit...

 31 Jul 2020 5:09AM • Channel 9 by Alex Cullen
 Brief: SSTC • 33 words • Market: Australia • Item ID: X00083593514

Perth researchers believe they have found two major cosmic discoveries in the WA outback. Researchers found two meteorites a few kilometres from each other using the Desert Fireball Network in the Nullarbor Plain.

AUD 22,752  15,000

Also broadcast from: Southern Cross Sunshine Coast (Sunshine Coast), Southern Cross Nine Central West (Orange), West Digital Television (Albany), Tasmania Digital Television (Hobart), Southern Cross Wagga Wagga (Wagga Wagga) and 29 more


Perth researchers believe they have found two major cosmic discoveries in the WA outback. Researchers found two meteorit...

 30 Jul 2020 11:06PM • Channel 9 by Peter Overton
 Brief: SSTC • 29 words • Market: Australia • Item ID: X00083586221

Perth researchers believe they have found two major cosmic discoveries in the WA outback. Researchers found two meteorites a few kilometres from each other using the Desert Fireball Network.

AUD 44,284  274,000

Also broadcast from: Southern Cross Sunshine Coast (Sunshine Coast), Southern Cross Nine Central West (Orange), GEM (Regional West Australia), GEM (Perth), West Digital Television (Albany) and 33 more


And it's getting weaker. This is bad news fewer housing approvals means fewer homes are going to be built in the next ye...

 30 Jul 2020 11:02PM • 6PR by Chris Ilsley
 Brief: SSTC • 162 words • Market: Australia • Item ID: R00083586570

And it's getting weaker. This is bad news fewer housing approvals means fewer homes are going to be built in the next year and that means more trade. He's out of work the desert Fireball network has discovered to Media. It's in the nullable plane in just a matter of weeks. The pair of rocks came to Earth at different times, but both were tracked by...

AUD 86  8,000


Australian Meteorite Hunters Find Two New Space Rocks In Just Two Weeks

30 Jul 2020 7:31PM • wn.com by System
 Brief: SSTC • 57 words • Market: Australia • Item ID: DA0058617485

If a shooting star makes it all the way to Earth, you get a meteorite. These rocks are important in helping us understand how the rocky bodies in the solar system formed, but finding these objects is not always easy. Therefore, researchers at Curtin Univer...

AUD 5  46

[Read on source site](#)


Australian Meteorite Hunters Find Two New Space Rocks In Just Two Weeks

30 Jul 2020 7:02PM • iflscience.com
 Brief: SSTC • 411 words • Market: Australia • Item ID: DA0058616949

Dr Hadrien Devillepoix pointing to the meteorite found near Madura. Curtin University If a shooting star makes it all the way to Earth, you get a meteorite. These rocks are important in helping us understand how the rocky bodies in the solar system formed,...

AUD 416,168

[Read on source site](#)


Curtin University scientists discovered two meteorites from separate fireballs. Chips of the rocks will be sent to scien...

 30 Jul 2020 7:27PM • ABC by Matt Wordsworth
 Brief: SSTC • 25 words • Market: Australia • Item ID: X00083584786

Curtin University scientists discovered two meteorites from separate fireballs. Chips of the rocks will be sent to scientists in Australia and overseas for further research.

AUD 1,045  32,000


Australian Meteorite Hunters Find Two New Space Rocks In Just Two Weeks

30 Jul 2020 7:02PM • iflscience.com
 Brief: SSTC • 421 words • Market: Australia • Item ID: 1310101817

Dr Hadrien Devillepoix pointing to the meteorite found near Madura. Curtin University If a shooting star makes it all the way to Earth, you get a meteorite.

[Read on source site](#)


WA scientists found two meteorites in Forrest and Esperance at the Nullarbor Plain.

 30 Jul 2020 7:18PM • ABC by Frances Bell
 Brief: SSTC • 14 words • Market: Australia • Item ID: X00083586415

WA scientists found two meteorites in Forrest and Esperance at the Nullarbor Plain.

AUD 1,550  16,000


Curtin University researchers have made a rare discovery after tracking the course of two meteors in WA's outback, which...

 30 Jul 2020 6:32PM • Channel 7 by Rick Ardon and Susannah Carr
 Brief: SSTC • 30 words • Market: Australia • Item ID: X00083586365

Curtin University researchers have made a rare discovery after tracking the course of two meteors in WA's outback, which could unlock billions of years of secret in the solar system.

AUD 16,004  182,000

 **Perth researchers believe they have found two major cosmic discoveries in the WA outback. Researchers found two meteorit...**



30 Jul 2020 6:16PM • Channel 9 by Michael Thomson
Brief: SSTC • 29 words • Market: Australia • Item ID: X00083585759

Perth researchers believe they have found two major cosmic discoveries in the WA outback. Researchers found two meteorites a few kilometres from each other using the Desert Fireball Network.

AUD 2,431  30,000

 **WA scientists have found two meteorites near the Nullarbor Plain in two weeks. Researchers will study the rocks to learn...**



30 Jul 2020 5:40PM • Channel 10 by Monika Kos
Brief: SSTC • 25 words • Market: Australia • Item ID: X00083585543

WA scientists have found two meteorites near the Nullarbor Plain in two weeks. Researchers will study the rocks to learn more about the solar system.

AUD 6,164  65,000

Also broadcast from: West Digital Television (Albany), WIN Western Australia (Perth)

 **The Curtin University's Desert Fireball Network team has located two meteorites in the Nullarbor this July. Curtin Unive...**



30 Jul 2020 5:03PM • 6PR
Brief: SSTC • 31 words • Market: Australia • Item ID: X00083583654

The Curtin University's Desert Fireball Network team has located two meteorites in the Nullarbor this July. Curtin University geologist Dr Lucy Forman noted the rocks may be billions of years old.

AUD 424  35,000

 **A Desert Fireball Network has been used to found two meteorites on Nullarbor.**



30 Jul 2020 5:02PM • 6PR
Brief: SSTC • 13 words • Market: Australia • Item ID: X00083584330

A Desert Fireball Network has been used to found two meteorites on Nullarbor.

AUD 466  35,000

 **The research so far is only on mice. The next stage is clinical trials on humans subject to funding grants. The team say...**



30 Jul 2020 4:29PM • Channel 7 by Samantha Jolly
Brief: SSTC • 396 words • Market: Australia • Item ID: R00083583617

The research so far is only on mice. The next stage is clinical trials on humans subject to funding grants. The team says it believes it can make real breakthrough. Crews in the treatment of Alzheimer's illness in the next decade for the researchers have made a rare Discovery in the wa out back after filming two meteors streaking across the night s...

AUD 5,369  47,000

 **Curtin University researchers have discovered two meteorites in Nullarbor Plain.**



30 Jul 2020 4:03PM • 5AA
Brief: SSTC • 10 words • Market: Australia • Item ID: X00083581966

Curtin University researchers have discovered two meteorites in Nullarbor Plain.

AUD 231  17,000


The Curtin University's Desert Fireball Network team has located two meteorites in the Nullarbor this July. Curtin Unive...

 30 Jul 2020 2:02PM • 6PR

Brief: SSTC • 31 words • Market: Australia • Item ID: X00083581593

The Curtin University's Desert Fireball Network team has located two meteorites in the Nullarbor this July. Curtin University geologist Dr Lucy Forman noted the rocks may be billions of years old.

 AUD 351  27,000


Curtin University researchers have found two meteorites on the Nullarbor Plain. Curtin geologist Lucy Forman says sample...

 30 Jul 2020 1:03PM • 6PR

Brief: SSTC • 33 words • Market: Australia • Item ID: X00083580762

Curtin University researchers have found two meteorites on the Nullarbor Plain. Curtin geologist Lucy Forman says samples of both will be sent to international labs because meteorites contain information about the solar system.

 AUD 362  30,000


Desert Fireball Network scientists find two meteorites in two weeks

30 Jul 2020 12:42PM • physorg.com

Brief: SSTC • 714 words • Market: Australia • Item ID: DA0058605169

Curtin's Dr Hadrien Devillepoix pointing to the meteorite found near Madura. Credit: Curtin University July 30, 2020 by Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain—one freshly fallen and the other...

[Read on source site](#)

Interview with Trish McDonald, project director, New Museum. Beaumont says there has been a press conference today. He a...

 30 Jul 2020 12:22PM • 6PR by Simon Beaumont

Brief: SSTC • 107 words • Market: Australia • Item ID: X00083580377

Interview with Trish McDonald, project director, New Museum. Beaumont says there has been a press conference today. He adds researchers from Curtin University found a couple of meteorites on the Nullarbor Plain in 2019. Beaumont says the New Museum will have several meteorites that have been found in Western Australia. McDonald states the New Museu...

 AUD 1,507  16,000


Parker is joined by Simon Etheridge, reporter, 6PR. Etheridge says he just spoke to the Desert Fireball Network. He ment...

 30 Jul 2020 11:39AM • 6PR by Gareth Parker

Brief: SSTC • 63 words • Market: Australia • Item ID: X00083580373

Parker is joined by Simon Etheridge, reporter, 6PR. Etheridge says he just spoke to the Desert Fireball Network. He mentions the group has 50 cameras all over Australia trying to capture any sort of meteorite. He notes they located two meteorites for the last two weeks along the Nullarbor Plain. He adds they found the meteorite near Madura. Etherid...

 AUD 581  16,000


The second of August face coverings will be mandatory when leaving the house across all our researchers from Curtin Univ...

 30 Jul 2020 10:30AM • ABC South West WA by Jacqueline Lynch
 Brief: SSTC • 137 words • Market: Australia • Item ID: R00083578984

The second of August face coverings will be mandatory when leaving the house across all our researchers from Curtin University's desert Fireballs Network have discovered two meteorites in a two-week period on the nullarbor plain. The meteorite were filmed Fallen by network of cameras across Australia used to observe shooting stars and predict where...

AUD 100


Researchers from Curtin University's Desert Fireball Network have found two meteorites on the Nullarbor Plain.

 30 Jul 2020 9:04AM • ABC Radio Perth
 Brief: SSTC • 15 words • Market: Australia • Item ID: X00083584102

Researchers from Curtin University's Desert Fireball Network have found two meteorites on the Nullarbor Plain.

AUD 888  29,000

Also broadcast from: ABC Pilbara (Karratha), ABC Kimberley (Broome), ABC Midwest and Wheatbelt (Geraldton), ABC Goldfields WA (Kalgoorlie), ABC South West WA (Bunbury) and 1 more


Victoria has recorded 13 deaths and 723 new coronavirus cases in the past 24 hours. It is the highest number of cases in...

 30 Jul 2020 10:30AM • ABC Great Southern by Gianni di Giovanni
 Brief: SSTC • 175 words • Market: Australia • Item ID: R00083578985

Victoria has recorded 13 deaths and 723 new coronavirus cases in the past 24 hours. It is the highest number of cases in a single day in the state since the start of the pandemic. The previous highest figure of 532 cases was recorded on Monday Premier. Daniel Andrews has announced from 11:59 p.m. M Sunday the second of August face coverings will be...

AUD 133


Curtin University researchers discover two meteorites on WA's remote Nullarbor Plain

 30 Jul 2020 8:30AM • Kalgoorlie Miner
 Brief: SSTC • 418 words • Market: Australia • Item ID: 1309801863

Two meteorites have been discovered on the Nullarbor Plain by Curtin University researchers in the space of two weeks. Both falls — one recent and one from late-2019 — were captured by The Desert Fireball Network team which uses cameras across Australi...

AUD 29  48
[Read on source site](#)

1.8 us cents today's weather showers South West of a line from Bunbury to Albany mainly near the coast in Perth. Mostly ...

 30 Jul 2020 10:05AM • ABC Midwest and Wheatbelt by Glenn Barndon
 Brief: SSTC • 407 words • Market: Australia • Item ID: R00083578553

1.8 us cents today's weather showers South West of a line from Bunbury to Albany mainly near the coast in Perth. Mostly sunny with light winds and a top of 20 degrees tomorrow a shower or two a 19 right now in the city at 16 degrees. Glen bandhan on ABC Midwest and we've Very good morning. Welcome to ABC Midwest and wheatbelt mornings good to have ...

AUD 266


Curtin University researchers discover two meteorites on WA's remote Nullarbor Plain

30 Jul 2020 8:30AM • West Australian
Brief: SSTC • 418 words • Market: Australia • Item ID: 1309800232

Two meteorites have been discovered on the Nullarbor Plain by Curtin University researchers in the space of two weeks. Both falls — one recent and one from late-2019 — were captured by The Desert Fireball Network team which uses cameras across Australi...

AUD 204   458

[Read on source site](#)


Curtin University researchers discover two meteorites on WA's remote Nullarbor Plain


30 Jul 2020 8:30AM • geraldtonguardian.com.au
Brief: SSTC • 418 words • Market: Australia • Item ID: 1309820450

Two meteorites have been discovered on the Nullarbor Plain by Curtin University researchers in the space of two weeks. Both falls — one recent and one from late-2019 — were captured by The Desert Fireball Network team which uses cameras across Australi...

AUD 4   8

[Read on source site](#)


Curtin University researchers discover two meteorites on WA's remote Nullarbor Plain

30 Jul 2020 8:30AM • kimberleyecho.com.au
Brief: SSTC • 418 words • Market: Australia • Item ID: 1309801945

Two meteorites have been discovered on the Nullarbor Plain by Curtin University researchers in the space of two weeks. Both falls — one recent and one from late-2019 — were captured by The Desert Fireball Network team which uses cameras across Australi...

[Read on source site](#)


Interview with Eleanor Sansom, project manager, Curtin University Australian Desert Fireball Network. Mitsopoulos says a...


30 Jul 2020 7:14AM • ABC Radio Perth by Russell Woolf and Nadia Mitsopoulos
Brief: SSTC • 212 words • Market: Australia • Item ID: X00083577551

Interview with Eleanor Sansom, project manager, Curtin University Australian Desert Fireball Network. Mitsopoulos says a team of scientists from Curtin University have cameras all over Australia to film meteorites and determine where they have landed. Sansom explains they have found a meteorite fall just over the Nullarbor Plains in November. She a...

AUD 6,043   48,000


Taking tech from the outback to outer space


30 Jul 2020 6:57AM • scitech.org.au
Brief: SSTC • 880 words • Market: Australia • Item ID: 1309764253

Imagine your workplace was somewhere a long way from home. Outside is a hostile, dangerous environment, filled with heavy machinery, and surrounded by emptiness in every direction as far as the eye can see. It's so far away that getting out there...

AUD 605   863

[Read on source site](#)


Evidence of Smallpox Infection in First Millennium Scandinavian Viking Settlements

30 Jul 2020 4:41AM • patentdocs.org by Kevin E. Noonan
Brief: SSTC • 1304 words • Market: Australia • Item ID: DA0058587098

One of the signal public health achievements/victories of the 20th Century is the eradication of smallpox (variola virus, VARV) announced by the World Health Organization (WHO) in 1980; it has been estimated that smallpox infection killed 300-500 million ...

[Read on source site](#)


Rock stars – Curtin scientists find two meteorites in two weeks

30 Jul 2020 12:56AM • Curtin University Australia
Brief: SSTC • 735 words • Market: Australia • Item ID: 1309648123

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain – one freshly fallen and the other from November 2019. Curtin's Dr Hadrien Devillepoix pointing to the meteorite found near Madura Both falls were...

AUD 2,450

[Read on source site](#)


Rock stars – Curtin scientists find two meteorites in two weeks

30 Jul 2020 1:02AM • nationaltribune.com.au
Brief: SSTC • 354 words • Market: Australia • Item ID: 1309649987

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain – one freshly fallen and the other from November 2019. Both falls were captured by The Desert Fireball Network (DFN) team which uses cameras across...

[Read on source site](#)


TWO METEORITES IN TWO WEEKS!

30 Jul 2020 12:00AM • Internet News Unassigned - Unassigned
Brief: SSTC • 275 words • Market: Australia • Item ID: 1311909856

The Madura Cave meteorite, discovered 20 days after it fell - credit: Hadrien Devillepoix The DFN team scores an unprecedented TWO meteorites in the Nullarbor, within just two weeks of each other. FALL FROM 2020-06-19 NEAR MADURA (WESTERN...

[Read on source site](#)


Rock stars – Curtin scientists find two meteorites in two weeks

30 Jul 2020 12:58AM • miragenews.com
Brief: SSTC • 724 words • Market: Australia • Item ID: 1309648681

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain – one freshly fallen and the other from November 2019. Both falls were captured by The Desert Fireball Network (DFN) team which uses cameras across...

AUD 769  184

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Rock stars – Curtin scientists find two meteorites in two weeks

29 Jul 2020 10:17PM • scimex.org
Brief: SSTC • 825 words • Market: Australia • Item ID: 1309600049

Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain – one freshly fallen and the other from November 2019. Embargoed until: Publicly released: Thu 30 Jul 2020 at 0201 AEST | 0401 NZST Not...

AUD 267  249

[Read on source site](#)



Desert Fireball Network scientists find two meteorites in two weeks

29 Jul 2020 12:00AM • Internet News Unassigned - Unassigned
Brief: SSTC • 735 words • Market: Australia • Item ID: 1311909407

Curtin's Dr Hadrien Devillepoix pointing to the meteorite found near Madura. Credit: Curtin University Curtin University researchers have discovered two meteorites in a two week period on the Nullarbor Plain—one freshly fallen and the other from...

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China's Mars mission blasts off

26 Jul 2020 9:41AM • kidsnews.com.au
Brief: SSTC • 691 words • Market: Australia • Item ID: 1307764998

SAMUEL McNEIL and ANIRUDDHA GHOSAL, AP Reading level: green China has launched its Mars mission in a bold* attempt to join the US in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under...

AUD 3,069

[Read on source site](#)



Defence Minister releases statement outlining plans for defence in space

 28 Jul 2020 9:02PM • defenceconnect.com.au by Stephen Kuper
Brief: SSTC • 973 words • Market: Australia • Item ID: 1308987174

key enablers | By: Stephen Kuper Defence Minister Linda Reynolds has issued a ministerial statement highlighting the growing importance of space to Australia's economic and broader national security and outlining the government's plans for growing th...

AUD 6,341  1,764

[Read on source site](#)



China launches ambitious attempt to land rover on Mars

25 Jul 2020 10:07AM • westhawaiiitoday.com
Brief: SSTC • 1154 words • Market: Australia • Item ID: DA0058425693

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press | Saturday, July 25, 2020, 12:05 a.m. A security guard adjusts his mask near an exhibition of rovers and bio-domes on Mars in Beijing Thursday, July 23, 2020. China launched its most ambitious Mars mis...

[Read on source site](#)



China's Mars mission blasts off

26 Jul 2020 9:41AM • kidsnews.com.au
Brief: SSTC • 679 words • Market: Australia • Item ID: DA0058440504

SAMUEL McNEIL and ANIRUDDHA GHOSAL, AP Reading level: green China has launched its Mars mission in a bold* attempt to join the US in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear sk...

AUD 350,206

[Read on source site](#)



How Twitter has killed intellectual freedom

 25 Jul 2020 12:00AM • Weekend Australian
Brief: SSTC • 1498 words • Market: Australia • Item ID: 1307106188

This week's Federal Court decision on Peter Ridd's sacking is a warning to every academic University life in the 21st century was confirmed by a court this week as being more concerned with the regulation of behaviour and the advent of social media than with the promotion of intellectual freedom and the pursuit of truth.

AUD 54,354  219,242

[View original](#)

**China's Tianwen-1 Mars rover rockets away from Earth**

24 Jul 2020 10:07PM • newburghpress.com by Denise Bradley
 Brief: SSTC • 856 words • Market: Australia • Item ID: DA0058414073

China's Tianwen-1 Mars rover rockets away from Earth" July 25, 2020NASAs virtual launch experience for Mars 2020 Perseverance rover includes: a behind-the-scenes look at the mission; augmented reality filters; access to an engaging NASA social community; ...

AUD 1,515,460

[Read on source site](#)

**China Launches Ambitious Attempt to Land Rover on Mars**

24 Jul 2020 9:57AM • military.com
 Brief: SSTC • 960 words • Market: Australia • Item ID: DA0058395226

In this photo released by China's Xinhua News Agency, spectators watch as a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. (Yang Guanyu/Xi...

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 1:47PM • fox7austin.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 992 words • Market: Australia • Item ID: DA0058402711

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 8:32AM • lewistownsentinel.com
 Brief: SSTC • 919 words • Market: Australia • Item ID: DA0058392260

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 10:22AM • kait8.com
 Brief: SSTC • 987 words • Market: Australia • Item ID: DA0058396506

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 7:34AM • ca.news.yahoo.com
 Brief: SSTC • 986 words • Market: Australia • Item ID: DA0058390419

BEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 rocket took off under clear skies from Haina...

AUD 110,922

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**Conflict of Interest: The West backs a winner for Perth**

24 Jul 2020 1:47AM • crikey.com.au by Georgia Wilkins
 Brief: SSTC • 544 words • Market: Australia • Item ID: DA0058379381

It's the type of media coverage most would-be mayors could only dream of: a story on the front page of the city's best-read newspaper full of glowing praise for your love of the city. Lucky for Basil Zempilas he doesn't have to dream. This is the r...

AUD 1,606 2,388

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 12:00AM • Int Press - USA
 Brief: SSTC • 958 words • Market: Australia • Item ID: 1317223289

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Beijing - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies about 12:40 p.m. from Hainan Island, sout...

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 12:21AM • macadailytimes.com.mo by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 802 words • Market: Australia • Item ID: DA0058376888

China launched its most ambitious Mars mission yet yesterday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies around 12:40 p...

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**China begins effort to put rover on Mars**

24 Jul 2020 12:00AM • Int Press - USA
 Brief: SSTC • 554 words • Market: Australia • Item ID: 1311511422

Samuel McNeil and Aniruddha Ghosal ASSOCIATED PRESS BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies around 12:40 p.m. from Hainan Island, south ...

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**China launches ambitious attempt to land rover on Mars**

24 Jul 2020 12:00AM • kfdm.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
 Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058378479

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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**China puts rover on trajectory toward Mars**

24 Jul 2020 12:00AM • Int Press - USA
 Brief: SSTC • 584 words • Market: Australia • Item ID: 1311512389

BY SAMUEL MCNEIL AND ANIRUDDHA GHOSAL Associated Press BEIJING China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from Hainan Island, south of China's mainland, as s...

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**China launches ambitious attempt to land on Mars**

24 Jul 2020 12:00AM • Int Press - USA
Brief: SSTC • 648 words • Market: Australia • Item ID: 1311512020

BY SAMUEL MCNEIL AND ANIRUDDHA GHOSAL ASSOCIATED PRESS BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from Hainan Island, south of China's mainland, as...

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**China begins effort to put rover on Mars**

24 Jul 2020 12:00AM • Int Press - USA
Brief: SSTC • Market: Australia • Item ID: 1311511664

Samuel McNeil and Aniruddha Ghosal ASSOCIATED PRESS BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies around 12:40 p.m. from Hainan Island, south ...

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**SPACE EXPLORATION China launches ambitious attempt to land rover on Mars**

24 Jul 2020 12:00AM • Int Press - USA
Brief: SSTC • 949 words • Market: Australia • Item ID: 1311511589

By Samuel Mcneil and Aniruddha Ghosal The Associated Press > China launched BEIJING its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing, a Long March-5 rocket took off under clear skies from Hainan Island, south of China's mainland, as...

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**China launches an attempt to land its first rover on Mars**

24 Jul 2020 12:00AM • Int Press - USA
Brief: SSTC • Market: Australia • Item ID: 1311511727

Samuel McNeil and Aniruddha Ghosal ASSOCIATED PRESS BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies around 12:40 p.m. from Hainan Island, south ...

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**China attempts to land rover**

24 Jul 2020 12:00AM • Int Press - USA
Brief: SSTC • 885 words • Market: Australia • Item ID: 1311512390

So far, only the U.S. has been able to place a spacecraft on Mars Samuel McNeil and Aniruddha Ghosal ASSOCIATED PRESS BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.

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**Ambitious China launches its first mission to Mars**

24 Jul 2020 12:00AM • Int Press - USA
Brief: SSTC • 798 words • Market: Australia • Item ID: 1311512137

Samuel McNeil and Aniruddha Ghosal Associated Press China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from Hainan Island, south of China's mainland, as space enthus...

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 **China launches ambitious attempt to land rover on Mars**
 23 Jul 2020 11:32PM • news4sanantonio.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
 Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058389140

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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 **China launches ambitious attempt to land rover on Mars**
 23 Jul 2020 9:51PM • fox11online.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
 Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058373352

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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 **China launches ambitious attempt to land rover on Mars**
 23 Jul 2020 10:11PM • theday.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058373843

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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 **China launches ambitious attempt to land rover on Mars**
 23 Jul 2020 9:36PM • local12.com
 Brief: SSTC • 951 words • Market: Australia • Item ID: DA0058372906

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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 **China launches ambitious attempt to land rover on Mars**
 23 Jul 2020 10:05PM • local21news.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
 Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058373763

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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 **China Launches Ambitious Attempt To Land Rover On Mars**
 23 Jul 2020 9:06PM • theyeshivaworld.com
 Brief: SSTC • 984 words • Market: Australia • Item ID: DA0058372352

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:48PM • abc7amarillo.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press

Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058372354

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:23PM • foxchattanooga.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press

Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058371309

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:29PM • cbs4local.com

Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058371461

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:13PM • wset.com

Brief: SSTC • 951 words • Market: Australia • Item ID: DA0058371078

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:25PM • myfoxnepa.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press

Brief: SSTC • 883 words • Market: Australia • Item ID: DA0058371349

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:13PM • wjla.com

Brief: SSTC • 1030 words • Market: Australia • Item ID: DA0058371551

by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Thursday, July 23rd 2020VIEW ALL PHOTOSIn this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in...

[Read on source site](#)

**FDA expands list of recalled hand sanitizers**

23 Jul 2020 8:03PM • abc3340.com by Wjar Staff
 Brief: SSTC • 1113 words • Market: Australia • Item ID: DA0058370885

PROVIDENCE, R.I. (WJAR) — The Food and Drug Administration recently expanded the list of hand sanitizers being recalled because they may contain a toxic chemical.NBC News reported that the agency's website now lists 75 products to avoid because they may...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:50PM • walb.com by Mono Sans, Mono Serif, X-Small
 Brief: SSTC • 955 words • Market: Australia • Item ID: DA0058370465

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:58PM • kmph-kfre.com
 Brief: SSTC • 962 words • Market: Australia • Item ID: DA0058370651

by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Thursday, July 23rd 2020BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:50PM • waff.com
 Brief: SSTC • 987 words • Market: Australia • Item ID: DA0058370458

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:56PM • wbko.com
 Brief: SSTC • 996 words • Market: Australia • Item ID: DA0058370610

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Published: Jul. 23, 2020 at 9:45 PM GMT+2BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:47PM • whsv.com
 Brief: SSTC • 996 words • Market: Australia • Item ID: DA0058370380

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Published: Jul. 23, 2020 at 9:45 PM CESTBEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft o...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:46PM • wowt.com

Brief: SSTC • 1002 words • Market: Australia • Item ID: DA0058370372

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Published: Jul. 23, 2020 at 9:45 PM GMT+2BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft ...

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**China launches ambitious effort to land rover on Mars**

23 Jul 2020 6:57PM • eastbaytimes.com

Brief: SSTC • 1022 words • Market: Australia • Item ID: DA0058369266

It marked the second flight to Mars this week, after a United Arab Emirates orbiter blasted off on Monday.By Samuel McNeil and Aniruddah Ghosal | Associated PressBEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:45PM • witn.com

Brief: SSTC • 996 words • Market: Australia • Item ID: DA0058370324

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press Published: Jul. 23, 2020 at 9:45 PM GMT+2BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft ...

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**China launches ambitious effort to land rover on Mars**

23 Jul 2020 6:56PM • mercurynews.com

Brief: SSTC • 975 words • Market: Australia • Item ID: DA0058369258

It marked the second flight to Mars this week, after a United Arab Emirates orbiter blasted off on Monday.By Samuel McNeil and Aniruddah Ghosal | Associated PressBEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 7:06PM • decaturdailydemocrat.com

Brief: SSTC • 1009 words • Market: Australia • Item ID: DA0058369451

DECATUR, IN By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines bl...

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**China Launches Ambitious Attempt to Land Rover on Mars**

23 Jul 2020 5:41PM • ien.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1033 words • Market: Australia • Item ID: DA0058367308

If all goes well, Tianwen-1 will look for underground water and evidence of possible ancient life.Spectators watch the Long March-5 rocket, carrying the Tianwen-1 Mars probe, lift off from the Wenchang Space Launch Center, July 23, 2020.BEIJING (AP) — Chi...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 5:05PM • mountaineagle.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 861 words • Market: Australia • Item ID: DA0058366298

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:57PM • kstp.com
Brief: SSTC • 958 words • Market: Australia • Item ID: DA0058366073

Photo: Cai Yang/Xinhua via AP. In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020.Assoc...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:59PM • syvnews.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1776 words • Market: Australia • Item ID: DA0058366731

1 of 9China launches ambitious attempt to land rover on MarsIn this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:55PM • wgauradio.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 999 words • Market: Australia • Item ID: DA0058366039

BEIJING — (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 carrier rocket took off under clear s...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:59PM • lufkindailynews.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1058 words • Market: Australia • Item ID: DA0058366200

In this photo released by China's Xinhua News Agency, a Long March-5 rocket is seen at the Wenchang Space Launch Center in south China's Hainan Province, Friday, July 17, 2020. China launched its most ambitious Mars mission yet on Thursday, July 23, 2020 ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:46PM • southernminn.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1024 words • Market: Australia • Item ID: DA0058365937

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space LaunchCenter in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:40PM • pbs.org
 Brief: SSTC • 945 words • Market: Australia • Item ID: DA0058365688

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 rocket took off under clear skies from ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 3:57PM • whio.com
 Brief: SSTC • 1011 words • Market: Australia • Item ID: DA0058364295

By: By SAMUEL McNEIL and ANIRUDDHA GHOSAL Updated: July 23, 2020 - 11:20 AM BEIJING — (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. E...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 4:26PM • lompocrecord.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1624 words • Market: Australia • Item ID: DA0058365348

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 3:47PM • wkbn.com by Samuel Mcneil, Aniruddha Ghosal, Cai Yang
 Brief: SSTC • 941 words • Market: Australia • Item ID: DA0058363970

This Mars-launching season — which occurs every 26 months when Earth and Mars are at their closest — is especially busy. BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfull...

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**China launches rocket to Mars in bid to land spacecraft on the red planet**

23 Jul 2020 4:10PM • mcall.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1086 words • Market: Australia • Item ID: DA0058364777

A Long March-5 rocket, carrying an orbiter, lander and rover as part of the Tianwen-1 mission to Mars, lifts off from the Wenchang Space Launch Centre in southern China's Hainan Province on July 23, 2020. (Noel Celis / AFP) BEIJING — China launched its mos...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 3:45PM • wdrb.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1207 words • Market: Australia • Item ID: DA0058363946

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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China launches rocket to Mars in bid to land spacecraft on the red planet

23 Jul 2020 3:44PM • dailypress.com by Samuel McNeil And Aniruddha Ghosal
Brief: SSTC • 1114 words • Market: Australia • Item ID: DA0058363923

BEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies a...

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China launches ambitious attempt to land rover on Mars Remove Content Link?

23 Jul 2020 3:32PM • elizabethton.com
Brief: SSTC • 1004 words • Market: Australia • Item ID: DA0058363558

By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a...

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China launches ambitious attempt to land rover on Mars

23 Jul 2020 3:36PM • wsocvtv.com
Brief: SSTC • 1011 words • Market: Australia • Item ID: DA0058363643

By: By SAMUEL McNEIL and ANIRUDDHA GHOSAL Updated: July 23, 2020 - 11:20 AM BEIJING — (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. E...

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China launches ambitious attempt to land rover on Mars

23 Jul 2020 3:29PM • wsapa.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1065 words • Market: Australia • Item ID: DA0058363454

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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China launches ambitious attempt to land rover on Mars

23 Jul 2020 3:35PM • fox23.com
Brief: SSTC • 933 words • Market: Australia • Item ID: DA0058363635

By: By SAMUEL McNEIL and ANIRUDDHA GHOSAL Updated: July 23, 2020 - 10:29 AM BEIJING — (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. E...

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China launches ambitious attempt to land rover on Mars

23 Jul 2020 3:26PM • indiatvnews.com
Brief: SSTC • 1034 words • Market: Australia • Item ID: DA0058363328

China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. China launches ambitious attempt to land rover on Mars China launched its most ambitious Mars...

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**Truly understand the Middle East. Haaretz.com**

23 Jul 2020 3:25PM • haaretz.com
Brief: SSTC • 1102 words • Market: Australia • Item ID: DA0058363324

Just \$1 for the first month Subscribe BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 c...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 2:56PM • fox5atlanta.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058362281

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 3:25PM • wsbradio.com
Brief: SSTC • 968 words • Market: Australia • Item ID: DA0058363298

Engines blazing orange, a Long March-5 carrier rocket took off under clear skies around 12:40 p.m. from Hainan Island, south of China's mainland. Hundreds of space enthusiasts cried out excitedly on a beach across the bay from the launch site. "This is a k...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 2:49PM • jamaicaobserver.com
Brief: SSTC • 1034 words • Market: Australia • Item ID: DA0058362018

In this photo released by China's Xinhua News Agency, spectators watch as a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, today. (Photo: AP)BEIJING, China (AP) — ...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 2:56PM • wivb.com
Brief: SSTC • 998 words • Market: Australia • Item ID: DA0058362289

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

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23 Jul 2020 2:26PM • chapelboro.com
Brief: SSTC • 994 words • Market: Australia • Item ID: DA0058361309

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 2:13PM • fox35orlando.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058360796

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 1:34PM • dailyexpress.com.my
 Brief: SSTC • 498 words • Market: Australia • Item ID: DA0058359289

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 1:50PM • ktvu.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058359874

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 1:16PM • canadianmanufacturing.com
 Brief: SSTC • 1017 words • Market: Australia • Item ID: DA0058358670

The mission is to look for underground water, if it's present, and evidence of possible ancient lifeMars' surface. PHOTO: ESA Science/TwitterBEIJING — China launched its most ambitious Mars mission yet on July 23 in a bold attempt to join the US in succes...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 1:35PM • my9nj.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058359341

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches Mars mission as it aims to join US in landing on Red Planet**

23 Jul 2020 1:13PM • livemint.com
 Brief: SSTC • 951 words • Market: Australia • Item ID: DA0058358652

5 min read. Updated: 23 Jul 2020, 03:44 PM IST Samuel McNeil, Aniruddha Ghosal, APBEIJING/NEW DELHI : China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the re...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 1:04PM • romesentinel.com

Brief: SSTC • 1107 words • Market: Australia • Item ID: DA0058358201

BLASTOFF — A Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province early today. China launched its most ambitious Mars mission yet in a bold attempt to join the United Sta...

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23 Jul 2020 1:02PM • abc7.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058358159

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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23 Jul 2020 1:03PM • fox6now.com

Brief: SSTC • 1135 words • Market: Australia • Item ID: DA0058358134

BEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 carrier rocket took off under clear skies ar...

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23 Jul 2020 1:00PM • fox26houston.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058358006

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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23 Jul 2020 1:03PM • fox13news.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058358167

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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23 Jul 2020 12:32PM • fox10phoenix.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058357280

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 12:31PM • wsvn.com

Brief: SSTC • 1023 words • Market: Australia • Item ID: DA0058357019

China launches ambitious attempt to land rover on MarsBEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, ...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 12:29PM • abc11.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058356927

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 12:31PM • 6abc.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058357040

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 12:26PM • 7online.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058356832

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 12:29PM • fox29.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058356922

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. (Credit: CNSA via Storyful)BEIJING (AP) - China launched its most ambitious Mars mission yet on Thursday...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 12:26PM • abc30.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058356844

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 12:26PM • abc13.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058356861

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 12:25PM • abc7news.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1010 words • Market: Australia • Item ID: DA0058356814

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 12:18PM • nbcnews.com
Brief: SSTC • 1017 words • Market: Australia • Item ID: DA0058356576

BEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 carrier rocket took off under clear skies ar...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 12:01PM • msn.com/en-ca by Keep your child's online experience safe, fun, and productive with Qustodio Amazon Top Seller: Echo Dot (3rd gen) - Smart speaker with Alexa Amazon's Choice: The Only Anti-Aging Vitamin C Serum You'll Need

Brief: SSTC • 1095 words • Market: Australia • Item ID: DA0058355870

BEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies a...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 11:47AM • abc7chicago.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1014 words • Market: Australia • Item ID: DA0058355311

This Mars-launching season - which occurs every 26 months when Earth and Mars are at their closest - is especially busy.BEIJING -- China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully l...

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**China launches ambitious attempt to land on Mars**

23 Jul 2020 11:44AM • internewscast.com by https://www.facebook.com/Internewscast/
Brief: SSTC • 1042 words • Market: Australia • Item ID: DA0058355178

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:42AM • theeagle.com
Brief: SSTC • 1119 words • Market: Australia • Item ID: DA0058355148

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:13AM • journaltimes.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 1305 words • Market: Australia • Item ID: DA0058354806

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:26AM • ripr.org by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 2429 words • Market: Australia • Item ID: DA0058354519

China has launched its most ambitious Mars mission yet in an attempt to join the United States in successfully landing a spacecraft on the red planet. The rocket carrying the orbiter and rover took off under clear skies from an island south of China's main...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:07AM • qctimes.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 670 words • Market: Australia • Item ID: DA0058354070

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:20AM • stltoday.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1659 words • Market: Australia • Item ID: DA0058354347

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:05AM • tdn.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 1273 words • Market: Australia • Item ID: DA0058353899

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:04AM • rapidcityjournal.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 794 words • Market: Australia • Item ID: DA0058353940

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:50AM • chippewa.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL
 Associated Press
 Brief: SSTC • 1446 words • Market: Australia • Item ID: DA0058353449

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 11:03AM • fremonttribune.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 731 words • Market: Australia • Item ID: DA0058353762

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:44AM • beatricedailysun.com by Samuel Mcneil, Aniruddha Ghosal
 Brief: SSTC • 794 words • Market: Australia • Item ID: DA0058353151

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:50AM • wkrg.com
 Brief: SSTC • 755 words • Market: Australia • Item ID: DA0058353351

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China successfully launches mission to land rover on Mars**

23 Jul 2020 10:41AM • amedpost.com
 Brief: SSTC • 181 words • Market: Australia • Item ID: DA0058353030

China launched its first fully homegrown Mars mission on Thursday as it attempts to join the United States in successfully landing a spacecraft on the red planet. The Tianwen-1 mission launched on top of a Long March-5 carrier rocket around 12:40 p.m. from...

AUD 228,030

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:40AM • wpri.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1068 words • Market: Australia • Item ID: DA0058352965

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

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**China successfully launches mission to land rover on Mars**

23 Jul 2020 10:33AM • FOXNews.com by By David Aaro | Fox News
Brief: SSTC • 577 words • Market: Australia • Item ID: 1306466777

launched its first fully homegrown on Thursday as it attempts to join the United States in successfully landing a spacecraft on the red planet. The Tianwen-1 mission launched on top of a Long March-5 carrier rocket around 12:40 p.m. from Hainan...

AUD 21,390 22,198

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:33AM • journalstar.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 1423 words • Market: Australia • Item ID: DA0058352882

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:31AM • gazetttimes.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 2167 words • Market: Australia • Item ID: DA0058352794

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**China successfully launches mission to land rover on Mars**

23 Jul 2020 10:33AM • foxnews.com by By David Aaro | Fox News
Brief: SSTC • 558 words • Market: Australia • Item ID: DA0058352743

launched its first fully homegrown on Thursday as it attempts to join the United States in successfully landing a spacecraft on the red planet. The Tianwen-1 mission launched on top of a Long March-5 carrier rocket around 12:40 p.m. from Hainan Island, so...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:31AM • ravallirepublic.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 670 words • Market: Australia • Item ID: DA0058352677

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:30AM • helenair.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1670 words • Market: Australia • Item ID: DA0058352684

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:28AM • egyptindependent.com
Brief: SSTC • 1096 words • Market: Australia • Item ID: DA0058352508

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:30AM • columbustelegram.com by By SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 794 words • Market: Australia • Item ID: DA0058352599

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:27AM • billingsgazette.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 1340 words • Market: Australia • Item ID: DA0058352999

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:30AM • herald-review.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 794 words • Market: Australia • Item ID: DA0058352593

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:27AM • elkodaily.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 2039 words • Market: Australia • Item ID: DA0058352603

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:26AM • lacrossetribune.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 732 words • Market: Australia • Item ID: DA0058352495

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:25AM • democratherald.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1057 words • Market: Australia • Item ID: DA0058352428

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:26AM • cumberlink.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 732 words • Market: Australia • Item ID: DA0058352475

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:25AM • trib.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL
Associated Press
Brief: SSTC • 1088 words • Market: Australia • Item ID: DA0058352709

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:26AM • wfcourier.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 670 words • Market: Australia • Item ID: DA0058352620

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:25AM • jg-tc.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL
Associated Press
Brief: SSTC • 1383 words • Market: Australia • Item ID: DA0058352425

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:24AM • tdn.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press

Brief: SSTC • 1340 words • Market: Australia • Item ID: DA0058352389

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:23AM • martinsvillebulletin.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 1798 words • Market: Australia • Item ID: DA0058352391

Only \$3 for 13 weeks1 of 9 In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China la...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:23AM • thetandd.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1882 words • Market: Australia • Item ID: DA0058352349

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:22AM • tucson.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1691 words • Market: Australia • Item ID: DA0058352370

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space LaunchCenter in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:22AM • bismarcktribune.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 670 words • Market: Australia • Item ID: DA0058352377

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:22AM • godanriver.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1851 words • Market: Australia • Item ID: DA0058352307

Only \$3 for 13 weeks1 of 9China launches ambitious attempt to land rover on MarsIn this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:20AM • journaltimes.com by SAMUEL McNEIL and ANIRUDDHA GHOSAL Associated Press
Brief: SSTC • 1453 words • Market: Australia • Item ID: DA0058352301

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear sk...

[Read on source site](#)

**Truly understand the Middle East. Haaretz.com**

23 Jul 2020 10:06AM • haaretz.com
Brief: SSTC • 1101 words • Market: Australia • Item ID: DA0058351800

Just \$1 for the first month Subscribe BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 c...

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**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:19AM • wiscnews.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1681 words • Market: Australia • Item ID: DA0058352173

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space LaunchCenter in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious Ma...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 9:49AM • federalnewsradio.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1016 words • Market: Australia • Item ID: DA0058351128

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 10:18AM • globegazette.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 678 words • Market: Australia • Item ID: DA0058352305

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 9:47AM • heraldextra.com by Samuel Mcneil, Aniruddha Ghosal
Brief: SSTC • 1055 words • Market: Australia • Item ID: DA0058351142

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 9:32AM • nbc4i.com

Brief: SSTC • 978 words • Market: Australia • Item ID: DA0058350448

In this photo released by China's Xinhua News Agency, a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, Thursday, July 23, 2020. China launched its most ambitious M...

[Read on source site](#)**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:56AM • en.annahar.com

Brief: SSTC • 930 words • Market: Australia • Item ID: DA0058348812

Launch commander Zhang Xueyu announced to cheers in the control room that the rocket was flying normally about 45 minutes later. BEIJING: China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successf...

[Read on source site](#)**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 9:08AM • faribaultcountyregister.com

Brief: SSTC • 950 words • Market: Australia • Item ID: DA0058349370

BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear ski...

[Read on source site](#)**China launches Mars rover in quest for evidence of water — and maybe ancient life**

23 Jul 2020 8:38AM • latimes.com by

<https://www.latimes.com/people/associated-press>

Brief: SSTC • 768 words • Market: Australia • Item ID: DA0058348139

BEIJING — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies a...

[Read on source site](#)**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:57AM • wftv.com

Brief: SSTC • 924 words • Market: Australia • Item ID: DA0058348970

By: By SAMUEL McNEIL and ANIRUDDHA GHOSAL Updated: July 23, 2020 - 3:34 AM BEIJING — (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. En...

[Read on source site](#)**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:24AM • stcatharinesstandard.ca by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 674 words • Market: Australia • Item ID: DA0058347643

BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies ar...

[Read on source site](#)

AUD 115 298

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:17AM • asahi.com

Brief: SSTC • 921 words • Market: Australia • Item ID: DA0058347426

A Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province, July 23. (Xinhua via AP)BEIJING--China launched its most ambitious Mars mission yet on Thursday in a bold attempt to

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:08AM • niagarafallsreview.ca by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 674 words • Market: Australia • Item ID: DA0058347039

BEIJING - China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 carrier rocket took off under clear skies ar...

[Read on source site](#)

**China launches ambitious attempt to land rover on Mars**

23 Jul 2020 8:16AM • newspressnow.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 624 words • Market: Australia • Item ID: DA0058347343

In this photo released by China's Xinhua News Agency, a Long March-5 rocket is seen at the Wenchang Space Launch Center in south China's Hainan Province, Friday, July 17, 2020. China launched its most ambitious Mars mission yet on Thursday, July 23, 2020 ...

[Read on source site](#)



23 Jul 2020 8:01AM • nbcphiladelphia.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 971 words • Market: Australia • Item ID: DA0058346613

[Read on source site](#)

**Truly understand the Middle East. Haaretz.com**

23 Jul 2020 7:37AM • haaretz.com

Brief: SSTC • 992 words • Market: Australia • Item ID: DA0058345811

Just \$1 for the first month Subscribe BEIJING (AP) — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet. Engines blazing orange, a Long March-5 c...

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23 Jul 2020 8:09AM • wellandtribune.ca by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 674 words • Market: Australia • Item ID: DA0058347066

[Read on source site](#)

 **China's successful launch of Mars mission seals global era in deep-space exploration**

23 Jul 2020 7:15AM • nature.com

Brief: SSTC • 851 words • Market: Australia • Item ID: DA0058344894

Tianwen-1 is the second of three spacecraft to take off this month for the red planet. China's mission to Mars aims to place a lander (pictured) and a rover on the planet's surface. Credit: Jason Lee/Reuters A Chinese spacecraft is on its way to Mars after ...

AUD 25,332  14,261[Read on source site](#) **China Launches Ambitious Attempt to Land Rover on Mars**

23 Jul 2020 4:00AM • nbcnewyork.com by Samuel Mcneil, Aniruddha Ghosal

Brief: SSTC • 968 words • Market: Australia • Item ID: DA0058435892

China's launch on Thursday comes days after the United Arab Emirates launched a spacecraft headed for Mars. In this photo released by China's Xinhua News Agency, a Long March-5 rocket is seen at the Wenchang Space Launch Center in south China's Hainan Provi...

[Read on source site](#) **Forensic expert never said Lloyd Rayney 'got away with murder', lawyer tells defamation hearing**

22 Jul 2020 12:14PM • msn.com/en-au

Brief: SSTC • 404 words • Market: Australia • Item ID: DA0058308916

Mr Rayney is suing Mark Reynolds over remarks he made at the seminar at Curtin University in 2014, when he said there was "no need for a cold case review" of the investigation because "the offender was identified". Dr Reynolds worked with police on the in...

AUD 159,225

[Read on source site](#) **Forensic expert never said Lloyd Rayney 'got away with murder', lawyer tells defamation hearing**

22 Jul 2020 12:14PM • WEB MSN Australia

Brief: SSTC • 412 words • Market: Australia • Item ID: 1305940899

Mr Rayney is suing Mark Reynolds over remarks he made at the seminar at Curtin University in 2014, when he said there was "no need for a cold case review" of the investigation because "the offender was identified". Dr Reynolds worked with police on...

[Read on source site](#) **Forensic expert never said Lloyd Rayney 'got away with murder', lawyer tells defamation hearing**

22 Jul 2020 11:05AM • abc.net.au by By Joanna Menagh

Brief: SSTC • 529 words • Market: Australia • Item ID: DA0058306211

A WA forensic expert's lawyer has denied comments his client made to a public seminar about the death of Corryn Rayney were defamatory and said they did not suggest her husband, former barrister Lloyd Rayney, "got away with murder". Key points: Mark Reynol...

AUD 3,488  7,243[Read on source site](#)

**Forensic expert never said Lloyd Rayney 'got away with murder', lawyer tells defamation hearing**

22 Jul 2020 11:05AM • ABC Online by By Joanna Menagh
Brief: SSTC • 542 words • Market: Australia • Item ID: 1305906094

A WA forensic expert's lawyer has denied comments his client made to a public seminar about the death of Corryn Rayney were defamatory and said they did not suggest her husband, former barrister Lloyd Rayney, "got away with murder". Key points: ...

AUD 9,699 7,258

[Read on source site](#)

**United Arab Emirates launches mission to Mars**

20 Jul 2020 4:02AM • abc.net.au
Brief: SSTC • 44 words • Market: Australia • Item ID: DA0058202027

The United Arab Emirates has just successfully launched a spacecraft that, seven months from now, should land on Mars. Duration: 3min 21sec
Broadcast: More Information Featured: Omran Sharaf, United Arab Emirates space program Dr Katarina Miljkovic, Curti...

AUD 743 7,243

[Read on source site](#)

**Report by David Sparkes. The United Arab Emirates has just successfully launched a spacecraft Amal or Hope, which should...**

20 Jul 2020 12:22PM • ABC Radio Sydney by Thomas Oriti
Brief: SSTC • 116 words • Market: Australia • Item ID: X00083457485

Report by David Sparkes. The United Arab Emirates has just successfully launched a spacecraft Amal or Hope, which should land on Mars seven months from now. It was launched this morning from Tanegashima Space Center in Japan. Project Director Omran Sharaf says for the first time, scientists will get a holistic view of Mars at different times of day...

AUD 64,640 238,800

Also broadcast from: Radio Australia (Asia Pacific) (Sydney), ABC Shepparton (Shepparton), ABC Central Coast (Erina), ABC Great Southern WA (Wagin), ABC Ballarat (Ballarat) and 54 more

**United Arab Emirates launches mission to Mars**

20 Jul 2020 4:02AM • ABC Online
Brief: SSTC • 44 words • Market: Australia • Item ID: 1304663648

The United Arab Emirates has just successfully launched a spacecraft that, seven months from now, should land on Mars. Duration: 3min 21sec
Broadcast: More Information Featured: Omran Sharaf, United Arab Emirates space program Dr Katarina...

AUD 2,195 7,258

[Read on source site](#)

**Space enthusiasts get ready to rock**

19 Jul 2020 12:00AM • Int Press - UK
Brief: SSTC • 244 words • Market: Australia • Item ID: 1304790336

SCOTTISH scientists are turning their eyes to the skies to track meteorites smaller, less threatening variations of their asteroid cousins - before they land on UK soil, and want volunteers to help recover the space rocks wherever they fall. The UK Fireball Network, led by researchers from the University of Glasgow and Imperial College London, is...

[View original](#)

**Interview difference there. There's a thing called the desert Fireball Network in here in Australia. It's actually in We...**

14 Jul 2020 7:23AM • ABC Newcastle by Jenny Marchant and Dan Cox
Brief: SSTC • 129 words • Market: Australia • Item ID: R00083388282

Interview difference there. There's a thing called the desert Fireball Network in here in Australia. It's actually in Western Australia, which is a net. Work of I think it's about 60 cameras permanently looking at the sky. And when one of these Fireballs passes through their field of view because there are so many of them you can actually calculate...

AUD 383 16,000

**NERA calls for power industry-led and technology-driven recovery**

06 Jul 2020 6:53AM • processonline.com.au
Brief: SSTC • 752 words • Market: Australia • Item ID: 1298317438

Releasing the 2020 update of its Sector Competitiveness Plan, NERA (National Energy Resources Australia) has identified priority areas of action for the \$93.1 billion energy resources sector to assist Australia's communities and the economy rebuild...

AUD 81 124

[Read on source site](#)

**NERA delivers energy sector update to power industry-led and technology-driven recovery**

06 Jul 2020 6:37AM • MySunshineCoast by My Sunshine Coast
Brief: SSTC • 821 words • Market: Australia • Item ID: 1298312777

Utilising industry-led and technology-driven innovation to build business resilience, unlock resources productivity and create employment opportunities are the critical pathways to economic recovery from COVID-19, according to NERA's latest energy...

AUD 112 104

[Read on source site](#)

**The Space Tiger King and the mushrooms on Mars**

03 Jul 2020 5:01AM • indiaeveryday.in by Jackson Ryan
Brief: SSTC • 2304 words • Market: Australia • Item ID: DA0057624076

NASA has never discovered life on the red planet, but one man says they're hiding the truth -- and he believes he has evidence to prove it. Jerry van Andel sat alone on the bow of the RV Lulu, a floating junkyard of a ship, as it bobbed against the waves o...

[Read on source site](#)

**Watch this space**

01 Jul 2020 12:00AM • R M Williams Outback
Brief: SSTC • 1593 words • Market: Australia • Item ID: 1282051290

Australian space history dates back to the Dreamtime. Now it looks forward to the next stellar projects.

AUD 26,756 53,517

[View original](#)

**THE NEW FRONTIER**

01 Jul 2020 12:00AM • Australian Mining Review
Brief: SSTC • 2637 words • Market: Australia • Item ID: 1298493098

The Australian space industry is set for lift-off. The Federal Government is paving the way for Australian companies to become key players in the global space economy, currently worth US\$350b and expected to be valued at more than US\$1.1t by 2040. The flow-on effects will reach other markets such as mining, agriculture, finance, health and tourism.

AUD 9,660 3,669

[View original](#)



The search for life on Mars, and the people who say we've found it already

30 Jun 2020 7:04PM • msn.com/en-us by Jackson Ryan 23 mins ago
Brief: SSTC • 3475 words • Market: Australia • Item ID: DA0057520445

Jerry van Andel sat alone on the bow of the RV Lulu, a floating junkyard of a ship, as it bobbed against the waves of the Pacific Ocean. Across deck, a team of scientists bustled around a basket full of strange life forms, wrenched from a mighty crack in t...

[Read on source site](#)



National gallery's woes nothing to do with the AWM

28 Jun 2020 2:00PM • Canberra Times by Letters to the Editor
Brief: SSTC • 1927 words • Market: Australia • Item ID: 1294958299

An artist's impression of the AWM redevelopment. Like many readers of The Canberra Times, I was saddened to learn of the financial difficulties experienced by the National Gallery of Australia. Understandably, this leads to commentary on the...

AUD 1,491  768

[Read on source site](#)



The search for life on Mars and the Space Tiger King

30 Jun 2020 12:51PM • msn.com/en-ph by Jackson Ryan, Perseverance Prior
Brief: SSTC • 3359 words • Market: Australia • Item ID: DA0057507944

Perseverance prior to launch at NASA's JPL Jerry van Andel sat alone on the bow of the RV Lulu, a floating junkyard of a ship, as it bobbed against the waves of the Pacific Ocean. Across deck, a team of scientists bustled around a basket full of strange li...

[Read on source site](#)



Unemployment numbers likely worse than projected

28 Jun 2020 12:47AM • Independent Australia by John Haly
Brief: SSTC • 1428 words • Market: Australia • Item ID: 1294727456

Employment statistics may not reflect reality (image via YouTube)
Unemployment in Australia has been baking for a long time. Still, the issue lately under consideration is whether during the pandemic, has it merely risen like a puff pastry or just...

[Read on source site](#)



The search for life on Mars and the Space Tiger King

30 Jun 2020 12:03PM • cnet.com by Jackson Ryan
Brief: SSTC • 2285 words • Market: Australia • Item ID: DA0057505388

NASA has never found life on the red planet, but a cabal of fringe scientists believe they have. Jerry van Andel sat alone on the bow of the RV Lulu, a floating junkyard of a ship, as it bobbed against the waves of the Pacific Ocean. Across deck, a team of...

[Read on source site](#)



Pawsey Supercomputing Centre Highlights Supercomputer Research Through Pawsey Uptake Projects

26 Jun 2020 3:39PM • hpcwire.com
Brief: SSTC • 688 words • Market: Australia • Item ID: DA0057391713

June 26, 2020 — The Pawsey Supercomputing Centre highlighted research by Mahsa Mousavi, Paul Hancock, and Monica Kehoe during the center's annual Pawsey Uptake Projects initiative, an effort to open access to its Pawsey supercomputing resources to research...

[Read on source site](#)

**The economics of cultural cringe**

26 Jun 2020 12:00AM • Sydney Morning Herald



Brief: SSTC • 1074 words • Market: Australia • Item ID: 1293635859

With the overhaul of universities, there is a profound sense that Australia is not up to cleverness. The head of the great viper of neo-conservative economics has been rather hidden in the sudden COVID-19 array of pumppriming policies from the Prime Minister and Treasurer. But one minister has a scheme to save the universities. Many, from the Arts ...

AUD 46,057 74,348

[View original](#)**Australia's cultural cringe lingers**

26 Jun 2020 12:00AM • Age



Brief: SSTC • 882 words • Market: Australia • Item ID: 1293619954

There's more to being clever than vocational training, but the government won't have it. The head of the great Viper of neo conservative economics has been rather hidden in the sudden COVID-19 array of pumppriming policies from the Prime Minister and Treasurer. But one minister has a scheme to save the universities.

AUD 21,371 69,863

[View original](#)**Philip Lowe: 5 reasons to stay 'fundamentally optimistic' on Australia**

23 Jun 2020 10:29AM • kalkinmedia.com

Brief: SSTC • 1153 words • Market: Australia • Item ID: 1292386127

Australia flattened the coronavirus curve earlier than was anticipated, with the economic contraction not as severe as projected. Also, the country stands at a much better position than its global counterparts. RBA Governor Philip Lowe, while speaking...

[Read on source site](#)**WA puts \$10m into space control and data facilities**

22 Jun 2020 2:32AM • iTnews by Matt Johnston



Brief: SSTC • 362 words • Market: Australia • Item ID: 1291698253

Tapping state's experience in remote operations. The federal and Western Australian state governments are investing \$6 million for the state to develop its space industry with a new data analysis facility and robotics, automation and artificial...

AUD 2,479 2,145

[Read on source site](#)**ArchTIS wins defence industry contract with Northrop Grumman**

22 Jun 2020 2:06AM • smallcaps.com.au by Imelda Cotton

Brief: SSTC • 446 words • Market: Australia • Item ID: DA0057193840

Canberra-based technology firm archTIS (ASX: AR9) has signed a contract for the supply of its Kojensi Software-as-a-Service platform to American global aerospace and defense technology company Northrop Grumman. The contract comprises the sale of 50 Kojensi...

AUD 225,261

[Read on source site](#)

ArchTIS wins defence industry contract with Northrop Grumman

22 Jun 2020 2:06AM • smallcaps.com.au by Imelda Cotton
Brief: SSTC • 474 words • Market: Australia • Item ID: 1291693055

Canberra-based technology firm archTIS (ASX: AR9) has signed a contract for the supply of its Kojensi Software-as-a-Service platform to American global aerospace and defense technology company Northrop Grumman. The contract comprises the sale of 50...

AUD 1,152  1,897

[Read on source site](#)

Curious Sighting of Fireball in the Skies of Australia Leave Scientists Busy to Explain Phenomenon

19 Jun 2020 12:33PM • ibtimes.sg by Bhaswati Guha Majumder
Brief: SSTC • 671 words • Market: Australia • Item ID: DA0057139813

A mysterious fireball was noticed in Australia but scientists don't have any clue about what caused the astronomical phenomenon. In the early hours of Monday morning, an Australian at the Yandi Mine resident noticed a curious light streaking through the sky...

AUD 256,722

[Read on source site](#)

Cahaya Hijau Misterius Melintas Atas Australia, Benda Apakah Itu?

20 Jun 2020 11:04AM • today.line.me/id
Brief: SSTC • 381 words • Market: Australia • Item ID: DA0057164806

See detailSource: pikistSebuah cahaya hijau misterius yang melintas di atas kegelapan langit pedalaman Australia telah menggemparkan media sosial. Peristiwa yang terjadi pada Senin dini hari (15/6) kemarin direkam oleh sejumlah penambang di daerah Pilbara...

[Read on source site](#)

Misteri Bola Api Biru di Langit Australia yang Bikin Bingung Astronom

19 Jun 2020 11:48AM • today.line.me/id
Brief: SSTC • 554 words • Market: Australia • Item ID: DA0057138402

See detailBola api bisa terlihat di langit malam Halloween saat puncak hujan meteor Taurid. (HOWARD EDIN, OKLAHOMA CITY ASTRONOMY CLUB, IENCE@NASA, NASA GODDARD SPACE FLIGHT CENTER)Liputan6.com, Perth - Semburat cahaya biru terlihat melintasi langit Austr...

[Read on source site](#)

Huge green fireball over Australia puzzles experts

19 Jun 2020 7:20PM • internewscast.com by
<https://www.facebook.com/Internewscast-101253968019750>
Brief: SSTC • 432 words • Market: Australia • Item ID: DA0057150308

Share Some residents of Australia received a pretty special treat earlier this week when a massive fireball appeared in the night sky. The event was captured by multiple onlookers, and as ABC News (that's the Australian news agency, not the Disney-owned AB...

[Read on source site](#)

Misteri Bola Api Biru di Langit Australia yang Bikin Bingung Astronom

19 Jun 2020 11:44AM • liputan6.com
Brief: SSTC • 230 words • Market: Australia • Item ID: DA0057138291

Liputan6.com, Perth - Semburat cahaya biru terlihat melintasi langit Australia pada 15 Juni 2020 lalu. Benda yang diduga dari ruang angkasa itu membingungkan komunitas astronomi. Bola api biru terlihat pukul 01.00 pagi waktu setempat pada 15 Juni, menurut ...

[Read on source site](#)

**Green fireball seen over Western Australia**

19 Jun 2020 9:25AM • popularmechanics.co.za by Leila Stein
Brief: SSTC • 223 words • Market: Australia • Item ID: DA0057133814

Earlier this week, the spectacular sight of a green fireball was captured by those working the late hours in Western Australia. Those working captured the flash over their sky and tweeted the videos but scientists are still not sure exactly what the fireball...

[Read on source site](#)

**綠光戰警現身？！不明綠色火球現身澳洲夜空，難倒科學家**

19 Jun 2020 4:27AM • eprice.com.tw
Brief: SSTC • 587 words • Market: Taiwan • Item ID: DA0057123052

最近幾天澳洲網路鄉民出現不小騷動，因為似乎出現了不明飛行物體事件。幾天前澳洲西部皮爾布拉（Pilbara）區域，不少人在午夜時分目擊到天空有一個綠色火球狀物體慢慢劃過天際，而且也有不少目擊影片在網路上流傳，最後甚至上了新聞。至於這個綠色火球究竟是什麼東西，現在有點眾說紛紜，有些天文愛好者聲稱這應該是火箭發射後的殘餘物體，不過科學家表示，這比較有可能是非人造的自然物體。澳洲科廷大學（Curtin University）太空科學科技中心科學家 Renae Sayers 表示，如果是太空中的人造物體，像是衛星之...

[Read on source site](#)

**A Spectacular Fireball Was Just Caught in Australia. Experts Don't Know What It Was**

19 Jun 2020 4:05AM • sciencealert.com by Carly Cassella
Brief: SSTC • 976 words • Market: Australia • Item ID: DA0057122294

It was in the early hours of Monday morning when Denby Turton, a mechanical fitter at the Yandi mine in Western Australia, saw a curious light streaking through the sky. He and three others were sitting on top of a crusher, waiting for it to start up, when...

[Read on source site](#)

AUD 70,156 99,782

**A Spectacular Fireball Was Just Caught in Australia. Experts Don't Know What It Was**

19 Jun 2020 4:05AM • Science Alert by Carly Cassella
Brief: SSTC • 1027 words • Market: Australia • Item ID: 1290657334

It was in the early hours of Monday morning when Denby Turton, a mechanical fitter at the Yandi mine in Western Australia, saw a curious light streaking through the sky. He and three others were sitting on top of a crusher, waiting for it to start up,...

[Read on source site](#)

**A green fireball over Australia has experts puzzled**

19 Jun 2020 3:15AM • bgr.com by Mike Wehner
Brief: SSTC • 478 words • Market: Australia • Item ID: DA0057120445

A green fireball appeared in the skies over Australia earlier this week and experts can't seem to explain what it was. It's thought that the object was natural in origin and not a manmade piece of space junk, but the jury is still out. Many fireballs exploded...

[Read on source site](#)

**Spectacular Green Meteor Lights Up Western Australia's Skies**

18 Jun 2020 1:09PM • iflscience.com
Brief: SSTC • 632 words • Market: Australia • Item ID: 1290323741

A meteor seen over an enormous area of Western Australia has prompted some fantastic reactions. Shaz Hussein via viralhog Australian skies have been graced with an astonishingly bright meteor with videos capturing both the visual feast and onlookers'...

[Read on source site](#)

Incredible Video Shows Bright Fireball Streaking Over Australia [WATCH]

18 Jun 2020 11:55AM • International Business Times by Inigo Monzon
Brief: SSTC • 380 words • Market: Australia • Item ID: 1290284188

An eyewitness in Australia was able to capture an incredibly clear and close-up video of a bright fireball streaking across the sky. Based on the appearance of the fireball, it was most likely a natural cosmic object than a piece of space debris. The...

AUD 70  663

[Read on source site](#)

'Oh my god ... what am I doing here'

18 Jun 2020 12:00AM • West Australian
 Brief: SSTC • 946 words • Market: Australia • Item ID: 1289820941

How a young woman was lured out of a domestic violence refuge only to be raped by ex-partner & allegedly his uncle A Derby woman who was staying in a domestic violence shelter for protection from her former partner was gang-raped by her ex-boyfriend - and also allegedly by his uncle - for seven hours after being tricked out of the refuge centre...

AUD 11,448  135,996

[View original](#)

Heboh Objek Hijau Misterius Disangka UFO, Apa itu Sebenarnya?

18 Jun 2020 3:43AM • msn.com/id-id
Brief: SSTC • 454 words • Market: Australia • Item ID: DA0057074739

Benda asing misterius melesat dengan kecepatan tinggi di langit malam di pedalaman Australia barat. Objek itu mengeluarkan cahaya hijau yang sangat terang. Banyak warga yang berhasil mengabadikan momen detik-detik ia bergerak dan menerangi langit malam.Me...

[Read on source site](#)

Bola Api Biru Melintas di Langit Gegerkan Warga Australia

17 Jun 2020 4:02AM • skanaa.com by Jaya Imbau, Warga Manfaatkan Layanan Sim
Brief: SSTC • 515 words • Market: Australia • Item ID: DA0057030474

CANBERRA -- Garis cahaya biru yang melintas di langit pada hari Senin (15/6) mengejutkan warga Australia bagian barat. Cahaya biru ini juga membingungkan komunitas astronomi. Bola api biru terlihat pukul 1 pagi waktu setempat pada Senin (15/6). "Itu benar-...

[Read on source site](#)

A Spectacular Fireball Was Just Caught in Australia. Experts Don't Know What It Was

18 Jun 2020 2:20AM • msn.com/en-ca by Carly Cassella Rona has you covered for all your home... The perfect cup of coffee is waiting for... Watch Clone Wars on Disney + today! Sign...

Brief: SSTC • 1011 words • Market: Australia • Item ID: DA0057122819

He and three others were sitting on top of a crusher, waiting for it to start up, when his boss suddenly exclaimed, "What the heck is that?" He turned, just in time to film a flaming ball of greenish blue shoot across the night. "It went for ages, super s...

AUD 138,203

[Read on source site](#)

Bola Api Biru Melintas di Langit Gegerkan Warga Australia

17 Jun 2020 3:16AM • republik.co.id by Rabu Jun, Idealisa Masyrafina, Dwi Murdaningsih
Brief: SSTC • 425 words • Market: Australia • Item ID: DA0057029178

Garis cahaya biru yang melintas di langit pada hari Senin (15/6) mengejutkan warga Australia bagian barat. Cahaya seperti bola api biru ini membingungkan komunitas astronomi. REPUBLIKA.CO.ID, CANBERRA -- Garis cahaya biru yang melintas di langit pada hari S...

[Read on source site](#)

**Cầu lửa màu xanh rọi sáng trời đêm Australia**

17 Jun 2020 12:55AM • thoibao.today

Brief: SSTC • 298 words • Market: Australia • Item ID: DA0057024218

Các thợ mỏ làm việc ở vùng Pilbara trông thấy vật thể lạ nhuộm xanh những đám mây vào khoảng 1 giờ sáng ngày 15/6 theo giờ địa phương. Vật thể được cho là thiên thạch rơi xuống Pilbara. Video: Twitter. Vàng sáng lóe lên lâu tới mức nhiều người có thể ghi lạ...

[Read on source site](#)**Objek Misterius Berwarna Hijau Melintas di Langit Australia**

16 Jun 2020 4:39PM • headtopics.com/my

Brief: SSTC • 326 words • Market: Australia • Item ID: DA0057011249

Objek luar angkasa misterius dengan sinar berwarna hijau melintasi langit Australia. Seperti apa penampakannya?9 beberapa jam yang laluObjek luar angkasa misterius dengan sinar berwarna hijau melintasi langit Australia. Seperti apa penampakannya? via deti...

[Read on source site](#)**Bola Api Biru di Langit Australia Barat Bingungkan Astronom**

16 Jun 2020 10:01PM • gatra.com by Ada Petisi Pemilu Ulang, Kpu Didesak Lebih

Brief: SSTC • 377 words • Market: Australia • Item ID: DA0057019617

Canberra, Gatra.com - Garis cahaya biru yang mencoret mangkuk langit Australia Barat, Senin dini hari, mengejutkan burung hantu dan membingungkan komunitas astronomi. Bola api biru terlihat pukul 1 pagi waktu setempat pada 15 Juni, menurut ABC News Pilbar...

[Read on source site](#)**Pre-recorded interview with Dr Ellie Sansom, Curtin University, regarding the green light which crossed the sky in WA la...**

16 Jun 2020 2:45PM • ABC Radio Darwin by Mikaela Simpson

Brief: SSTC • 64 words • Market: Australia • Item ID: X00083138360

Pre-recorded interview with Dr Ellie Sansom, Curtin University, regarding the green light which crossed the sky in WA last weekend. Sansom says it was amazing that the people who saw it managed to take a video of the green fireball since meteor showers usually don't last that long. She states the green fireball is more likely an asteroid or a meteo...

AUD 1,186

**Cầu lửa màu xanh rọi sáng trời đêm Australia**

16 Jun 2020 5:12PM • tin247.com

Brief: SSTC • 314 words • Market: Australia • Item ID: DA0057012344

Khoa Học 6 phút trước Các thợ mỏ làm việc ở vùng Pilbara trông thấy vật thể lạ nhuộm xanh những đám mây vào khoảng 1 giờ sáng ngày 15/6 theo giờ địa phương.Cầu lửa màu xanh rọi sáng trời đêm AustraliaVật thể được cho là thiên thạch rơi xuống Pilbara. Vide...

[Read on source site](#)**Objek Misterius Berwarna Hijau Melintas di Langit Australia**

16 Jun 2020 11:54AM • detik.com by Virginia Maulita Putri

Brief: SSTC • 336 words • Market: Australia • Item ID: DA0056999146

Objek Misterius Berwarna Hijau Melintas di Langit Australia Foto: Shaz Hussien/FacebookJakarta - Bola api berwarna kehijauan melintasi langit Australia pada Senin (15/6) tengah malam. Saksi mata yang melihat pun terpukau dengan pemandangan langka ini dan ...

[Read on source site](#)

 **Bright green fireball flashed over NW Australia Sunday night**

16 Jun 2020 7:45AM • msn.com/en-ca by Scott Sutherland Rona has you covered for all your home... The perfect cup of coffee is waiting for... Watch Clone Wars on Disney + today! Sign...

Brief: SSTC • 806 words • Market: Australia • Item ID: DA0056989221

Residents of Western Australia looked up to see a shocking sight early Monday morning, as a bright green fireball streaked across the sky overhead. It was just before 1 a.m. local time, in the Pilbara region of Western Australia when witnesses in the spar...

AUD 94,543

[Read on source site](#)

 **Pre-recorded interview with Dr Ellie Sansom, Curtin University. Samson says the flying fireball that lit up Pilbara's sk...**

16 Jun 2020 6:43AM • ABC Pilbara by Kelly Gudgeon
Brief: SSTC • 35 words • Market: Australia • Item ID: X00083137055

Pre-recorded interview with Dr Ellie Sansom, Curtin University. Samson says the flying fireball that lit up Pilbara's sky was a space rock, however her team wasn't able to determine how fast the object was moving.

AUD 912

 **Rare Fireball Over Western Australia a Bit of a Space Mystery**

16 Jun 2020 4:33AM • Gizmodo Australia by Sarah Basford
Brief: SSTC • 990 words • Market: Australia • Item ID: 1288976205

A bright, green fireball was spotted over Western Australia's night skies on Sunday but its origin remains a bit of a mystery to scientists. The phenomenon was captured in a video showing the bright light lasting for around 30 seconds, per ABC...

AUD 2,492  1,190

[Read on source site](#)

 **Bright green fireball flashed over NW Australia Sunday night**

16 Jun 2020 3:58AM • cameroonmagazine.com by By CAMEROON MAGAZINE - GM - Brief: SSTC • 851 words • Market: Australia • Item ID: DA0056980938

Residents of Western Australia looked up to see a shocking sight early Monday morning, as a bright green fireball streaked across the sky overhead. It was just before 1 a.m. local time, in the Pilbara region of Western Australia when witnesses in the spar...

[Read on source site](#)

 **Curtin students and researchers build ventilators in response to COVID-19**

16 Jun 2020 1:00AM • news.curtin.edu.au
Brief: SSTC • 436 words • Market: Australia • Item ID: DA0056974761

A team of students and researchers from Curtin University has worked quickly to design and develop ventilator prototypes that could be used to help treat people affected by COVID-19. The research team, with expertise across various fields including enginee...

AUD 193,369

[Read on source site](#)

 **Curtin students and researchers build ventilators in response to COVID-19**

16 Jun 2020 1:00AM • Curtin University Australia
Brief: SSTC • 454 words • Market: Australia • Item ID: 1288917187

A team of students and researchers from Curtin University has worked quickly to design and develop ventilator prototypes that could be used to help treat people affected by COVID-19. The research team, with expertise across various fields including...

AUD 2,116

[Read on source site](#)


Vision has emerged of a green fireball crossing the sky in the Pilbara. The video was captured by mine workers and it wa...

 16 Jun 2020 12:13AM • ABC News by Michael Tetlow
 Brief: SSTC • Market: Australia • Item ID: M00083134758

Vision has emerged of a green fireball crossing the sky in the Pilbara. The video was captured by mine workers and it was also visible in the NT and SA.

 AUD 262  6,000


Ominous Green Fireball Lights Up Skies Over Australian Outback

 16 Jun 2020 12:02AM • Gizmodo Australia by George Dvorsky
 Brief: SSTC • 401 words • Market: Australia • Item ID: 1288901347

The greenish-blue fireball, as seen during the early hours of June 15 in Australia. (Image: Shaz Hussien/Facebook) A greenish-blue fireball streaked across the skies over Australia last night, in an event captured by awe-struck observers on the...

 AUD 1,016  1,190

[Read on source site](#)

A mysterious green fireball was seen lighting up the sky over WA's north. Mine workers spotted the meteor lights over th...

 15 Jun 2020 7:55PM • ABC News by Karina Carvalho
 Brief: SSTC • 23 words • Market: Australia • Item ID: X00083130627

A mysterious green fireball was seen lighting up the sky over WA's north. Mine workers spotted the meteor lights over the Pilbara region.

 AUD 1,919  43,000

Also broadcast from: ABC News (Regional West Australia), ABC News (Canberra), ABC News (Hobart), ABC News (Regional Victoria), ABC News (Regional Queensland) and 5 more


Stunning video of a bright green glow flashing across the Pilbara skies has sparked excitement among stargazers.

 15 Jun 2020 7:29PM • ABC by Pamela Medlen
 Brief: SSTC • 17 words • Market: Australia • Item ID: W00083131999

Stunning video of a bright green glow flashing across the Pilbara skies has sparked excitement among stargazers.

 AUD 912  20,000


A mysterious green fireball was seen lighting up the sky over WA's north. Mine workers spotted the meteor lights over th...

 15 Jun 2020 7:27PM • ABC by Dan Bouchier
 Brief: SSTC • 23 words • Market: Australia • Item ID: X00083129855

A mysterious green fireball was seen lighting up the sky over WA's north. Mine workers spotted the meteor lights over the Pilbara region.

 AUD 570  15,000


Mine workers in the Pilbara Region have filmed footage of a green fireball in the sky which could be seen as far as SA a...

 15 Jun 2020 7:26PM • ABC by Tamara Oudyn
 Brief: SSTC • 26 words • Market: Australia • Item ID: X00083129839

Mine workers in the Pilbara Region have filmed footage of a green fireball in the sky which could be seen as far as SA and NT.

 AUD 2,414  60,000

 **Vision of a green fireball that blazed through the sky was seen nationwide. Mineworkers captured the moment in the Pilbara...**


15 Jun 2020 7:26PM • ABC by Matt Wordsworth
Brief: SSTC • 21 words • Market: Australia • Item ID: X00083129832

Vision of a green fireball that blazed through the sky was seen nationwide. Mineworkers captured the moment in the Pilbara region.

AUD 1,425  36,000

 **A mysterious green fireball was seen lighting up the sky over WA's north. Mine workers spotted the meteor lights over th...**


15 Jun 2020 7:26PM • ABC by Eleni Roussos
Brief: SSTC • 23 words • Market: Australia • Item ID: X00083130278

A mysterious green fireball was seen lighting up the sky over WA's north. Mine workers spotted the meteor lights over the Pilbara region.

AUD 1,265  19,000

 **A mysterious green glow has been captured on camera by mineworkers shooting through the skies in Pilbara last night. Exp...**


15 Jun 2020 6:11PM • Channel 9 by Michael Thomson
Brief: SSTC • 28 words • Market: Australia • Item ID: X00083131130

A mysterious green glow has been captured on camera by mineworkers shooting through the skies in Pilbara last night. Experts believe it was a piece of space rock.

AUD 2,530  32,000

 **Mineworkers in the Pilbara region in WA have seen a mysterious green fireball light up the sky. Experts say it wasn't sp...**


15 Jun 2020 4:38PM • Channel 7 by Kendall Gilding
Brief: SSTC • 67 words • Market: Australia • Item ID: X00083128621

Mineworkers in the Pilbara region in WA have seen a mysterious green fireball light up the sky. Experts say it wasn't space junk but it could be a meteorite which has been bounced back by the Earth's atmosphere. Renae Sayers from Curtin University says the object could've been as large as a washing machine and that it could be made of iron because ...

AUD 13,031  100,000

Also broadcast from: Seven Townsville (Townsville), Seven Toowoomba (Toowoomba), Seven Rockhampton (Rockhampton), Seven Mackay (Mackay), Seven Cairns (Cairns) and 4 more

 **Mysterious green fireball above Australia's outback leaves experts baffled Mysterious green fireball above Australia's o...**

15 Jun 2020 12:36PM • indiablooms.com
Brief: SSTC • 216 words • Market: Australia • Item ID: DA0056957196

Canberra/Xinhua/UNI: A mysterious, green colored fireball flew across the sky of Australia's remote outback on Monday, stunning onlookers and leaving local experts baffled about its origins. The object was witnessed at around 1:00 am local time by night wo...

[Read on source site](#)


Astronomy experts are investigating a footage of a bright light that lit the Pilbara sky. They are still determining whe...

15 Jun 2020 12:04PM • ABC Radio Darwin

Brief: SSTC • 27 words • Market: Australia • Item ID: X00083127142

Astronomy experts are investigating a footage of a bright light that lit the Pilbara sky. They are still determining whether it's a meteorite of a space junk.

AUD 164


Mysterious green fireball above Australia's outback leaves experts baffled

15 Jun 2020 11:41AM • xinhuanet.com/english

Brief: SSTC • 273 words • Market: Australia • Item ID: DA0056955312

SYDNEY, June 15 (Xinhua) -- A mysterious, green colored fireball flew across the sky of Australia's remote outback on Monday, stunning onlookers and leaving local experts baffled about its origins. The object was witnessed at around 1:00 a.m. local time by...

AUD 697,280

[Read on source site](#)


Astronomers are examining footage of what appears to be a green fireball that flashed across the sky over Cape Lambert i...

15 Jun 2020 10:03AM • ABC Radio Perth

Brief: SSTC • 52 words • Market: Australia • Item ID: X00083126034

Astronomers are examining footage of what appears to be a green fireball that flashed across the sky over Cape Lambert in the Pilbara early this morning. Renae Sayers from the Desert Fireball Network at Curtin University says they are trying to determine whether the sighting was of a meteorite or space junk.

AUD 773  27,000

Also broadcast from: ABC Pilbara (Karratha), ABC Kimberley (Broome), ABC Midwest and Wheatbelt (Geraldton), ABC Goldfields WA (Kalgoorlie), ABC South West WA (Bunbury) and 1 more


Interview with Renae Sayers, Curtin University's Space Science and Technology Centre. Comperes plays a clip of people's ...

15 Jun 2020 8:52AM • ABC Radio Perth by Russell Woolf and Nadia Mitsopoulos

Brief: SSTC • 118 words • Market: Australia • Item ID: X00083125458

Interview with Renae Sayers, Curtin University's Space Science and Technology Centre. Comperes plays a clip of people's reaction upon seeing a green ball of fire on the sky of Cape Lambert in the Pilbara. Sayers says that was a fascinating and glorious capture of a fireball. She discusses the differences in fireballs depending on what is entering t...

AUD 4,470  26,000

Jury still out on mysterious green glow seen in sky from WA, SA and NT

15 Jun 2020 8:23AM • cameroonmagazine.com by By CAMEROON MAGAZINE - GM -
Brief: SSTC • 738 words • Market: Australia • Item ID: DA0056948541

Victoria's Assistant Treasurer Robin Scott has resigned from Cabinet, as the scandal involving branch-stacking allegations deepens Scientists say the « jury is still out » about a mysterious green glow that travelled across the sky in the remote West Aust...

[Read on source site](#)

Pacific media react with relief over proposed sale reprieve for AAP

07 Jun 2020 1:18PM • eveningreport.nz
Brief: SSTC • 1479 words • Market: Australia • Item ID: DA0056691015

Article sponsored by NewzEngine.comBy Jade Bradford in PerthNews that Australian Associated Press has been saved is being welcomed by media outlets in socially and culturally complex Pacific countries such as Papua New Guinea where dramatic and important ...

[Read on source site](#)

Fireball that lit up Pilbara sky 'something special', but scientists not exactly sure what

15 Jun 2020 5:05AM • abc.net.au by By Karen Michelmore
Brief: SSTC • 775 words • Market: Australia • Item ID: DA0056942081

Scientists say the "jury is still out" about a mysterious green glow that travelled across the sky in the remote West Australian outback early this morning. Key points: Many people videoed the bright green object streaking across the sky in WA's remote Pi...

AUD 6,408  7,527

[Read on source site](#)

Pacific media react with relief over proposed sale reprieve for AAP

07 Jun 2020 1:18PM • eveningreport.nz
Brief: SSTC • 1564 words • Market: Australia • Item ID: 1285273873

Article sponsored by NewzEngine.comBy Jade Bradford in Perth News that Australian Associated Press has been saved is being welcomed by media outlets in socially and culturally complex Pacific countries such as Papua New Guinea where dramatic and...

[Read on source site](#)

Fireball that lit up Pilbara sky 'something special', but scientists not exactly sure what



15 Jun 2020 5:05AM • ABC Online by By Karen Michelmore
Brief: SSTC • 789 words • Market: Australia • Item ID: 1288454858

Scientists say the "jury is still out" about a mysterious green glow that travelled across the sky in the remote West Australian outback early this morning. Key points: Many people videoed the bright green object streaking across the sky in WA's...

AUD 33,687  8,099

[Read on source site](#)

Unemployment by COVID exploded

05 Jun 2020 6:56AM • theaimn.com by John Haly
Brief: SSTC • 1542 words • Market: Australia • Item ID: 1284566597

Locking down the economy to save lives in a pandemic comes at the cost of unemployment, but how much, is the issue. Measuring that unemployment in Australia has been the focus of much dissent of late, in both social and mainstream media.

AUD 4,208  507

[Read on source site](#)

 **China delayed releasing coronavirus info, frustrating WHO**

02 Jun 2020 4:08AM • Yahoo! News

Brief: SSTC • 4337 words • Market: Australia • Item ID: 1283130372

Throughout January, the World Health Organization publicly praised China for what it called a speedy response to the new coronavirus. It repeatedly thanked the Chinese government for sharing the genetic map of the virus "immediately," and said its wor...

AUD 128,249  8,100[Read on source site](#)
 **Designing a coronavirus exit plan? Take a page from history**

29 May 2020 2:00PM • The Australian by NICK DYRENFURTH Nick Dyrenfurth

Brief: SSTC • 1317 words • Market: Australia • Item ID: 1281962429

"The past is a foreign country: they do things differently there." So runs the first line of LP Hartley's 1953 novel, The Go--Between. Australians are prone to forget the continuities between governments of differing political hues and the messy...

AUD 3,895  1,499[Read on source site](#)
 **Study: Plate tectonics that shifted continents across Earth started at least 2.5 billion years ago**

25 May 2020 3:25PM • naturalnews.com

Brief: SSTC • 555 words • Market: Australia • Item ID: DA0056256291

(Natural News) Plate tectonics is the widely accepted theory that the outer shell of the Earth is divided into several pieces, known as plates. These plates slowly glide across the Earth's mantle, the rocky inner layer above the planet's core. This movem...

[Read on source site](#)
 **archTIS (ASX:AR9) selected by Curtin University to utilise Kojensi data security platform**

19 May 2020 8:05AM • themarketherald.com.au

Brief: SSTC • 355 words • Market: Australia • Item ID: DA0056043112

archTIS (AR9) has been contracted by Curtin University to use its Kojensi platform apply access controls for an Australian DataLake The DataLake is a paid prototype which will generate initial revenue of \$62,000 Kojensi is a secure content and collaborati...

AUD 179,105

[Read on source site](#)
 **archTIS to help solve space tracking data sharing challenges using Kojensi platform**

19 May 2020 2:57AM • proactiveinvestors.com.au

Brief: SSTC • 383 words • Market: Australia • Item ID: DA0056033272

This is archTIS' first win in the educational and growing space sectors and extends the Kojensi platform's reach into the growing big data analytics market.archTIS has been selected to build and implement differential access controls for the Curtin Univer...

AUD 200,104

[Read on source site](#)



archTIS to help solve space tracking data sharing challenges using Kojensi platform

19 May 2020 2:57AM • Proactive Investors Australia
Brief: SSTC • 410 words • Market: Australia • Item ID: 1277031720

This is archTIS' first win in the educational and growing space sectors and extends the Kojensi platform's reach into the growing big data analytics market. archTIS has been selected to build and implement differential access controls for the Curtin...

AUD 545  134

[Read on source site](#)



Children aren't immune to racism. Here's how you can talk to your children about it



09 May 2020 7:31PM • ABC Online by By Tasha Wibawa
Brief: SSTC • 1357 words • Market: Australia • Item ID: 1273216282

Posted 15 minutes ago Sat 9 May 2020, 9:16pm There are increasing reports of racism against Asians since the pandemic began, but these sentiments are not new. There's a common narrative that children don't see race — in sociology, it's referred to a...

AUD 132,800  7,324

[Read on source site](#)



Micrometeorites were found preserved in ancient rock in the Pilbara. It gave a snapshot of the upper atmosphere 2.7 bill...

 05 May 2020 9:03PM • ABC by Tamara Davis
Brief: SSTC • 312 words • Market: Australia • Item ID: X00082840367

Micrometeorites were found preserved in ancient rock in the Pilbara. It gave a snapshot of the upper atmosphere 2.7 billion years ago., when Earth was shrouded in poisonous carbon dioxide. The markings suggest the first traces of breathable oxygen. In Western Australia, on a hilltop 145 kms north of Perth stands a sentinel, a robot camera that is o...

AUD 217,873  568,000

Also broadcast from: ABC (Regional NSW), ABC (Regional Victoria), ABC (Regional Queensland), ABC (Canberra), ABC (Perth) and 5 more



Space enthusiasts get ready to rock

01 May 2020 12:00AM • Int Press - UK
Brief: SSTC • 456 words • Market: Australia • Item ID: 1269826450

RESEARCH FOCUS SCOTTISH scientists are turning their eyes to the skies to track meteorites Ssmaller, less threatening variations of their asteroid cousins - before they land on UK soil and want volunteers to help recover the space rocks wherever they fall.

[View original](#)


Interview with Dr Patrick Clarke, School of Psychology, Curtin University. Astle says Clarke's research is looking into ...

29 Apr 2020 9:13PM • ABC Radio Melbourne by DAVID Astle
Brief: SSTC • 432 words • Market: Australia • Item ID: X00082803846

Interview with Dr Patrick Clarke, School of Psychology, Curtin University. Astle says Clarke's research is looking into uncertainty, doubt and anxiety. Clarke notes there is a difference between uncertainty and doubt, noting uncertainty often refers to unpredictable things that can occur in the future. He states the lack of control is one major fac...

AUD 24,252  17,000

Also broadcast from: ABC Shepparton (Shepparton), ABC Ballarat (Ballarat), ABC Goulburn Murray (Wodonga), ABC Wimmera (Horsham), ABC Central Victoria (Bendigo) and 3 more


Asteroids alert: Astronomers witness space rock ejected out of Earth's atmosphere and towards Jupiter Asteroids: 4-kilom...

13 Apr 2020 9:49AM • econotimes.com
Brief: SSTC • 365 words • Market: Australia • Item ID: DA0054779257

Related Stories As far as defense goes, the Earth only has the atmosphere to provide the protection. However, an incident involving an asteroid making it past the atmosphere may suggest that the atmosphere is not the only defense the planet has.reports th...

[Read on source site](#)


Interview with Dr Katarina Miljkovic, Space Science and Technology Centre senior research fellow, Curtin University. Wil...

11 Apr 2020 12:06PM • Radio National by Robyn Williams
Brief: SSTC • 119 words • Market: Australia • Item ID: X00082681372

Interview with Dr Katarina Miljkovic, Space Science and Technology Centre senior research fellow, Curtin University. Williams says people picture asteroids as great rocks travelling around the solar system. He points out asteroids actually carry water. He notes Miljkovic published a paper in Nature Astronomy about how asteroids carry water. She say...

AUD 52,400  56,000

Also broadcast from: Radio National (Newcastle), Radio National (Darwin), Radio National (Adelaide), Radio National (Hobart), Radio National (Perth) and 3 more


Binar Space Program

11 Apr 2020 6:32AM • southgatearc.org by Daniel-Cristian Busan Vk
Brief: SSTC • 300 words • Market: Australia • Item ID: DA0054734965

The Binar Space Program is a space hardware project for research and education within Curtin University 's Space Science and Technology Centre.The primary objective of Binar is the development of Australian space technology that enables planetary science ...

AUD 708  382

[Read on source site](#)

**That Time When A Meteor Used Earth As A Slingshot**

10 Apr 2020 6:02AM • neatorama.com

Brief: SSTC • 191 words • Market: Australia • Item ID: DA0054696626

July 2017. An amazing phenomenon happened. For 90 seconds, the Australian skies were lit up, as a meteor entered the atmosphere of our planet. But more than its rather long light show in the Australian skies, what's more amazing is that the meteor did not ...

[Read on source site](#)**The WHO v coronavirus: why it can't handle the pandemic**

10 Apr 2020 5:00AM • Guardian Australia by Stephen Buranyi



Brief: SSTC • 4779 words • Market: Australia • Item ID: 1260040348

Attacked by Trump and ignored by many of its most powerful members, the World Health Organization is facing a major crisis – just at the moment we need it most. By Stephen Buranyi If, like me, you have been confined to your home, glued to the news...

AUD 218,613 28,576

[Read on source site](#)**One express ticket to Jupiter, please**

09 Apr 2020 2:17PM • physorg.com

Brief: SSTC • 676 words • Market: Australia • Item ID: DA0054673595

April 9, 2020 byThe team from the Desert Fireball Network at Curtin University has found that Earth acted as a slingshot to alter the orbit of a meteor and propel it back into deep outer space near Jupiter. The team analysed camera footage of the meteor, t...

[Read on source site](#)**Asteroids chock full of water, multiverses, and our planet full of life – deep as you go!**

09 Apr 2020 3:09AM • abc.net.au

Brief: SSTC • 223 words • Market: Australia • Item ID: DA0054718915

A large asteroid carrying plenty of water will be worth millions of dollars we're told. But it's not sloshing around. Instead, the water is carried in chemical form within the rocks themselves. Now Dr Katarina Miljkovic from Curtin University has analysed...

AUD 16,502 25,547

[Read on source site](#)**Asteroids chock full of water, multiverses, and our planet full of life – deep as you go!**

09 Apr 2020 3:09AM • ABC Online

Brief: SSTC • 226 words • Market: Australia • Item ID: 1260191839

A large asteroid carrying plenty of water will be worth millions of dollars we're told. But it's not sloshing around.

AUD 15,589 9,509

[Read on source site](#)**Water likely to be abundant in the galaxy**

09 Apr 2020 3:00AM • abc.net.au

Brief: SSTC • 138 words • Market: Australia • Item ID: DA0054719392

On The Science Show with Robyn Williams The rocks on Mars show the weathering effects of water. Although the planet is now dry. And the moons of some outer planets have ice. But what about beyond the solar system? Katarina Miljkovic has analysed comets and...

AUD 22,514 25,547

[Read on source site](#)

**Water likely to be abundant in the galaxy**

09 Apr 2020 3:00AM • ABC Online



Brief: SSTC • 140 words • Market: Australia • Item ID: 1260201122

On The Science Show with Robyn Williams The rocks on Mars show the weathering effects of water. Although the planet is now dry. And the moons of some outer planets have ice.

AUD 22,727 9,509

[Read on source site](#)**One express ticket to Jupiter, please**

09 Apr 2020 1:03AM • news.curtin.edu.au

Brief: SSTC • 702 words • Market: Australia • Item ID: DA0054645326

The team from the Desert Fireball Network at Curtin University has found that Earth acted as a slingshot to alter the orbit of a meteor and propel it back into deep outer space near Jupiter. The team analysed camera footage of the meteor, that lit up Austr...

AUD 292,959

[Read on source site](#)**One express ticket to Jupiter, please**

09 Apr 2020 1:03AM • Curtin University Australia

Brief: SSTC • 728 words • Market: Australia • Item ID: 1259459173

The team from the Desert Fireball Network at Curtin University has found that Earth acted as a slingshot to alter the orbit of a meteor and propel it back into deep outer space near Jupiter. The team analysed camera footage of the meteor, that lit up...

AUD 15,294

[Read on source site](#)**Two decades of success and growth**

07 Apr 2020 12:00AM • Adelaide Advertiser



Brief: SSTC • 765 words • Market: Australia • Item ID: 1258080391

A FOCUS on providing specialist complex engineering services globally has helped Adelaide-based Nova Group grow from two founders to 600 employees in two decades. While the 20-year milestone this year comes with new COVID-19-related challenges, the business, which is projecting more than \$200 million in 2019/2020 revenues, has taken time to take pr...

AUD 11,231 112,097

[View original](#)**SA-based Nova Group's two decades of flying high**

06 Apr 2020 2:42PM • narroginobserver.com.au by Valerina Changarathil

Brief: SSTC • 798 words • Market: Australia • Item ID: 1258178914

An Adelaide company with global defence customers is eyeing \$200 million in revenues this financial year, as it marks a key milestone. While the 20-year milestone this year comes with new COVID-19-related challenges, the business, which is projecting...

AUD 42 2

[Read on source site](#)

**SA-based Nova Group's two decades of flying high**

06 Apr 2020 2:39PM • geraldtonguardian.com.au by Valerina Changarathil
 Brief: SSTC • 798 words • Market: Australia • Item ID: 1258177453

An Adelaide company with global defence customers is eyeing \$200 million in revenues this financial year, as it marks a key milestone. While the 20-year milestone this year comes with new COVID-19-related challenges, the business, which is projecting...

AUD 252 18

[Read on source site](#)

**Meteor's slingshot path to Jupiter**

03 Apr 2020 12:00AM • Australian Financial Review
 Brief: SSTC • Market: Australia • Item ID: 1256546139

Astronomy The fireball that grazed Australia's night sky in 2017 was unique, writes Joshua Sokol. It's not unusual for meteors to illuminate night skies over south western Australia's desolate landscapes. But the fireball of July 7, 2017, was different. For a full minute and a half, it just kept burning and burning.

AUD 7,577 38,015

[View original](#)

**SA-based Nova Group's two decades of flying high**

06 Apr 2020 2:36PM • soundtelegraph.com.au by Valerina Changarathil
 Brief: SSTC • 798 words • Market: Australia • Item ID: 1258176012

An Adelaide company with global defence customers is eyeing \$200 million in revenues this financial year, as it marks a key milestone. While the 20-year milestone this year comes with new COVID-19-related challenges, the business, which is projecting...

AUD 22 2

[Read on source site](#)

**Meteor used Earth to slingshot its way to Jupiter**

01 Apr 2020 8:37PM • Australian Financial Review
 Brief: SSTC • 759 words • Market: Australia • Item ID: 1256194251

It's not unusual for meteors to illuminate night skies over southwestern Australia's desolate landscapes. But the fireball of July 7, 2017, was different.

AUD 10,812 4,604

[Read on source site](#)

**SA-based Nova Group's two decades of flying high**

06 Apr 2020 2:30PM • Adelaide Now by Valerina Changarathil
 Brief: SSTC • 857 words • Market: Australia • Item ID: 1258177483

SA Business SA-based Nova Group's two decades of flying high An Adelaide company with global defence customers is eyeing \$200 million in revenues this financial year, as it marks a key milestone. A focus on providing specialist complex engineering...

AUD 2,893 658

[Read on source site](#)

**This Fireball Ignored the Solar System's One-Way Signs**

31 Mar 2020 4:33AM • msn.com/en-ie by Joshua Sokol
 Brief: SSTC • 686 words • Market: Australia • Item ID: DA0054324512

© Patrick Shoher/Desert Fireball Network A Desert Fireball Network image of a grazing fireball taken by the William Creek Observatory in Australia in 2017. It's not unusual for meteors to illuminate night skies over southwestern Australia's desolate landsc...

[Read on source site](#)

**This fireball ignored the solar system's one-way sign**

30 Mar 2020 9:52PM • vaaju.com

Brief: SSTC • 169 words • Market: Australia • Item ID: DA0054311851

It is not uncommon for meteors to illuminate the night sky over the desolate landscape of southwestern Australia. But the fireball on July 7, 2017 was different. For a minute and a half, it just kept burning and burning. The object carved a tra...

[Read on source site](#)**This Fireball Ignored the Solar System's One-Way Signs**

30 Mar 2020 7:29PM • nytimes.com by By Joshua Sokol

Brief: SSTC • 703 words • Market: Australia • Item ID: DA0054309017

A meteoroid that grazed the night sky over Australia in 2017 took a very unusual path away from Earth. It's not unusual for meteors to illuminate night skies over south-western Australia's desolate landscapes. But the fireball of July 7, 2017, was differe...

[Read on source site](#)**This Fireball Ignored the Solar System's One-Way Signs**

30 Mar 2020 7:29PM • New York Times by By Joshua Sokol

Brief: SSTC • 718 words • Market: Australia • Item ID: 1255076222

A meteoroid that grazed the night sky over Australia in 2017 took a very unusual path away from Earth. It's not unusual for meteors to illuminate night skies over south-western Australia's desolate landscapes. But the fireball of July 7, 2017, was...

AUD 30,595 29,984

[Read on source site](#)**PREMIER'S SCIENCE AWARDS 2020 APPLICATIONS OPEN**

27 Mar 2020 12:00AM • West Australian



Brief: SSTC • 349 words • Market: Australia • Item ID: 1253420594

The State Government is calling for the nominations of Western Australian STEM superstars for the 2020 Premier's Science Awards. The awards celebrate the achievements of WA's leaders and high achieving up-and-comers in STEM.

AUD 5,014 135,996

[View original](#)**ONE STEP CLOSER TO SPACE**

27 Mar 2020 12:00AM • West Australian



Brief: SSTC • 416 words • Market: Australia • Item ID: 1253420604

A recent announcement that Perth will be home to a national space entity could create as many as 1500 new jobs in the field in Western Australia in five years' time, according to professional services firm PwC. The State Government announced in February that Perth would be home to the headquarters of Australian Remote Operations for Space and Earth...

AUD 6,715 135,996

[View original](#)**NASA eyes WA**

25 Mar 2020 12:00AM • Australian Financial Review



Brief: SSTC • 242 words • Market: Australia • Item ID: 1253155426

West-side unis West Australian research teams are using the same technology that keeps mines running at a distance to push into space, with the help of industry partners already invested in remote engineering.

AUD 2,142 38,015

[View original](#)

**WA universities turn their eye to space**

24 Mar 2020 1:01PM • Australian Financial Review by Ruth Callaghan
Brief: SSTC • 898 words • Market: Australia • Item ID: 1252253276

NASA is interested in what Western Australia can do in terms of remote operations. When your multi-billion dollar engineering project is a dozen driving hours from the nearest town, the value of remote operations becomes clear. It's why Australia's big...

AUD 13,230 4,604

[Read on source site](#)

**O-Week censors excel themselves**

14 Mar 2020 12:00AM • Weekend Australian
Brief: SSTC • 1843 words • Market: Australia • Item ID: 1247209293

The most brazen opponents of free speech are those who control student unions "Free speech crisis? What crisis?" Uttered in freaky unison, this frequent denial from university vice-chancellors has allowed them to resume normal programming.

AUD 138,170 219,242

[View original](#)

**Uni explores final frontier**

19 Mar 2020 12:00AM • Stirling Times
Brief: SSTC • 201 words • Market: Australia • Item ID: 1249501249

CURTIN University is preparing to launch its first satellites into orbit. The university has been working with Japanese space start-up company Space BD Inc to develop two CubeSat miniature satellites.

AUD 1,178 33,379

[View original](#)

**University O-Week censors excel themselves**

13 Mar 2020 1:00PM • The Australian by Janet Albrechtsen
Brief: SSTC • 1754 words • Market: Australia • Item ID: 1247195794

"Free speech crisis? What crisis?" Uttered in freaky unison, this frequent denial from university vice-chancellors has allowed them to resume normal programming. That consists of VCs putting their heads in the sand rather than confronting those trying...

AUD 27,187 2,922

[Read on source site](#)

**Australia greenlights next-gen energy tech projects**

17 Mar 2020 10:05AM • opengovasia.com
Brief: SSTC • 710 words • Market: Australia • Item ID: DA0053818476

These projects are examples of how Australia can lead the next decade and beyond in technology innovation by leveraging the country's industry knowledge and encouraging the exchange of ideas across sectors. The Australian Government is investing in the fut...

AUD 363,516

[Read on source site](#)

**Federal funding announced for new NERA projects**

13 Mar 2020 2:04AM • Manufacturers Monthly
Brief: SSTC • 262 words • Market: Australia • Item ID: 1247007717

New energy innovation projects that draw on resources from the oceans and outer space will receive \$344,000 in funding from the Australian Government. Two industry collaborations, led through National Energy Resources Australia (NERA), will be supporte...

AUD 987 291

[Read on source site](#)


Government invests \$344k to support next generation energy tech projects Featured

12 Mar 2020 3:18PM • itwire.com by Peter Dinham
Brief: SSTC • 636 words • Market: Australia • Item ID: DA0053646013

The Australian Government is investing \$344,000 to support two new industry-led collaboration projects through National Energy Resources Australia (NERA), one of the Government's six industry growth centres. Minister for Industry, Science and Technology K...

AUD 1,008  982

[Read on source site](#)


Government invests \$344k to support next generation energy tech projects

12 Mar 2020 3:51AM • Blogs by Peter Dinham
Brief: SSTC • 636 words • Market: Australia • Item ID: DA0053678977

The Australian Government is investing \$344,000 to support two new industry-led collaboration projects through National Energy Resources Australia (NERA), one of the Government's six industry growth centres. Minister for Industry, Science and Technology K...

AUD 226,196

[Read on source site](#)


Government invests \$344k to support next generation energy tech projects Featured

12 Mar 2020 3:18PM • ITWire by Peter Dinham
Brief: SSTC • 649 words • Market: Australia • Item ID: 1246750869

The Australian Government is investing \$344,000 to support two new industry-led collaboration projects through National Energy Resources Australia (NERA), one of the Government's six industry growth centres. Minister for Industry, Science and...

AUD 18,386

[Read on source site](#)


Joint statement – Next-gen energy technology projects get green light

12 Mar 2020 1:15AM • miragenews.com
Brief: SSTC • 490 words • Market: Australia • Item ID: DA0053611097

The Morrison Government is investing in the future of energy innovation by backing new technology projects that harness opportunities from our deepest oceans to outer space. Minister for Industry, Science and Technology Karen Andrews said \$344,000 would be...

AUD 252,015

[Read on source site](#)


The Four Point Play

12 Mar 2020 6:07AM • www.thefourpointplay.blog
Brief: SSTC • 279 words • Market: Australia • Item ID: 1246510139

Next-gen Projects Approved, Energy Technology to experience a New Phase Drafts of the new energy technology projects have been approved as the Morrison Government is indeed willing to invest in the innovation in energy technology, backing of these...

[Read on source site](#)

 **Joint statement - Next-gen energy technology projects get green light** 12 Mar 2020 1:15AM • miragenews.com
Brief: SSTC • 514 words • Market: Australia • Item ID: 1246413281

The Morrison Government is investing in the future of energy innovation by backing new technology projects that harness opportunities from our deepest oceans to outer space. Minister for Industry, Science and Technology Karen Andrews said \$344,000...

AUD 2,911  196[Read on source site](#) **Joint media statement - Next-gen energy technology projects get green light**12 Mar 2020 1:08AM • Media Statements
Brief: SSTC • 519 words • Market: Australia • Item ID: 1246411179

The Morrison Government is investing in the future of energy innovation by backing new technology projects that harness opportunities from our deepest oceans to outer space. Minister for Industry, Science and Technology Karen Andrews said \$344,000 woul...

AUD 4,847  937[Read on source site](#) **Joint statement - Next-gen energy technology projects get green light**12 Mar 2020 1:09AM • nationaltribune.com.au
Brief: SSTC • 514 words • Market: Australia • Item ID: 1246411531

The Morrison Government is investing in the future of energy innovation by backing new technology projects that harness opportunities from our deepest oceans to outer space. Minister for Industry, Science and Technology Karen Andrews said \$344,000 woul...

[Read on source site](#) **Applications open for prestigious Premier's Science Awards 2020**11 Mar 2020 3:10AM • nationaltribune.com.au
Brief: SSTC • 364 words • Market: Australia • Item ID: DA0053566369

McGowan Government raising science, technology, engineering and mathematics (STEM) profile by celebrating local STEM superstars Nominations for the 2020 Premier's Science Awards and WA Science Hall of Fame now open The McGowan Government is calling for th...

AUD 212,347

[Read on source site](#) **Joint media statement - Next-gen energy technology projects get green light**12 Mar 2020 1:08AM • wa.gov.au
Brief: SSTC • 493 words • Market: Australia • Item ID: DA0053610877

The Morrison Government is investing in the future of energy innovation by backing new technology projects that harness opportunities from our deepest oceans to outer space. Minister for Industry, Science and Technology Karen Andrews said \$344,000 would be...

AUD 254,157

[Read on source site](#)


Applications open for prestigious Premier's Science Awards 2020

11 Mar 2020 3:10AM • miragenews.com
Brief: SSTC • 363 words • Market: Australia • Item ID: DA0053566309

McGowan Government raising science, technology, engineering and mathematics (STEM) profile by celebrating local STEM superstars Nominations for the 2020 Premier's Science Awards and WA Science Hall of Fame now openThe McGowan Government is calling for the...

AUD 217,155

[Read on source site](#)


Applications open for prestigious Premier's Science Awards 2020

11 Mar 2020 3:08AM • wa.gov.au
Brief: SSTC • 363 words • Market: Australia • Item ID: DA0053566329

McGowan Government raising science, technology, engineering and mathematics (STEM) profile by celebrating local STEM superstars Nominations for the 2020 Premier's Science Awards and WA Science Hall of Fame now openThe McGowan Government is calling for the...

AUD 208,479

[Read on source site](#)


Applications open for prestigious Premier's Science Awards 2020

11 Mar 2020 3:10AM • nationaltribune.com.au
Brief: SSTC • 392 words • Market: Australia • Item ID: 1245880939

McGowan Government raising science, technology, engineering and mathematics (STEM) profile by celebrating local STEM superstars Nominations for the 2020 Premier's Science Awards and WA Science Hall of Fame now open The McGowan Government is calling for...

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Applications open for prestigious Premier's Science Awards 2020

11 Mar 2020 3:08AM • Media Statements
Brief: SSTC • 392 words • Market: Australia • Item ID: 1245880783

McGowan Government raising science, technology, engineering and mathematics (STEM) profile by celebrating local STEM superstars Nominations for the 2020 Premier's Science Awards and WA Science Hall of Fame now open The McGowan Government is calling for...

AUD 4,174  937

[Read on source site](#)


Applications open for prestigious Premier's Science Awards 2020


11 Mar 2020 3:10AM • miragenews.com
Brief: SSTC • 392 words • Market: Australia • Item ID: 1245880736

McGowan Government raising science, technology, engineering and mathematics (STEM) profile by celebrating local STEM superstars Nominations for the 2020 Premier's Science Awards and WA Science Hall of Fame now open The McGowan Government is calling for...

AUD 2,517  196

[Read on source site](#)


Continuing Regular Segment: Science with Associate Professor Charles Lineweaver, ANU College of Science. Sutton notes th...

 10 Mar 2020 11:15PM • ABC Radio Sydney by Mark Sutton
 Brief: SSTC • 99 words • Market: Australia • Item ID: X00082491783

Continuing Regular Segment: Science with Associate Professor Charles Lineweaver, ANU College of Science. Sutton notes the world's most advanced gravitational wave detector has begun observation this past week. Lineweaver says the first-ever detection of gravitational waves was made by LIGO in 2015. He mentions LIGO has been awarded the Nobel Prize ...

 AUD 45,539  78,000

Also broadcast from: Radio Australia (Asia Pacific) (Sydney), ABC Shepparton (Shepparton), ABC Central Coast (Erina), ABC Great Southern WA (Wagin), ABC Ballarat (Ballarat) and 47 more


Asteroid Vesta Has Turbulent Past

 05 Mar 2020 7:48PM • sci-news.com by Pixel Panorama, Martian Thiophenes May, Astrobiologists Say
 Brief: SSTC • 771 words • Market: Australia • Item ID: DA0053393362

A new study by Curtin University researchers has shed light on the early days of Vesta, the second largest asteroid of the main belt and the fourth such object to be discovered. Discovered by Heinrich Wilhelm Olbers on March 29, 1807, Vesta is the only mai...

[Read on source site](#)

ASTEROID COLLISION CRISIS

 05 Mar 2020 12:00AM • Daily Telegraph
 Brief: SSTC • 137 words • Market: Australia • Item ID: 1243009813

AN asteroid possibly measuring up to 4.1km with potentially "global effects" will pass close by Earth next month, according to NASA. The space agency's database which tracks objects that could collide with our planet has revealed an asteroid named 52768 (1998 OR2) will orbit past Earth on April 29.

 AUD 2,951  221,641

[View original](#)

Local scientist leading WA's space program

 04 Mar 2020 7:24AM • yourlocalexaminer.com.au by Geraldine Alphonse
 Brief: SSTC • 463 words • Market: Australia • Item ID: DA0053331965

Scientist of the Year 2019 Phil Bland is leading an orbital mini satellite launch into space this year. Photograph — Richard Polden. Our very own rocket man continues to contribute to the world's space science with two mini satellites to be launched into o...

AUD 219,716

[Read on source site](#)

**Local scientist leading WA's space program**

04 Mar 2020 7:24AM • yourlocalexaminer.com.au by Geraldine Alphonse
 Brief: SSTC • 485 words • Market: Australia • Item ID: 1242961750

Scientist of the Year 2019 Phil Bland is leading an orbital mini satellite launch into space this year. Photograph — Richard Polden. Our very own rocket man continues to contribute to the world's space science with two mini satellites to be launched...

AUD 938 276

[Read on source site](#)

**Locals help launch WA space program**

04 Mar 2020 12:00AM • Canning Examiner
 Brief: SSTC • 478 words • Market: Australia • Item ID: 1242788088

Our very own rocket man continues to contribute to the world's space science with two mini satellites to be launched into orbit in coming months. Rossmoyne resident and Scientist of the Year 2019 Phil Bland said he would never have thought when growing up in the United Kingdom that he would be building a spacecraft in Western Australia.

AUD 1,501 29,603

[View original](#)

**JOCELYN CHEY: Turbo Charge or Tough It Out? The New Board for the Foundation for Australia-China Relations**

03 Mar 2020 7:21PM • johnmenadue.com by Jocelyn Chey
 Brief: SSTC • 990 words • Market: Australia • Item ID: DA0053296846

One important category of Chinese Australians is not represented, and some choices seem calculated to prejudice improving relations with the People's Republic of China. Foreign Minister Marise Payne last week revealed the membership of the Advisory Board o...

AUD 395,582

[Read on source site](#)

**JOCELYN CHEY: Turbo Charge or Tough It Out? The New Board for the Foundation for Australia-China Relations**

03 Mar 2020 7:21PM • johnmenadue.com by Jocelyn Chey
 Brief: SSTC • 1006 words • Market: Australia • Item ID: 1242587605

One important category of Chinese Australians is not represented, and some choices seem calculated to prejudice improving relations with the People's Republic of China. Foreign Minister Marise Payne last week revealed the membership of the Advisory...

[Read on source site](#)

**Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite**

02 Mar 2020 11:33PM • msn.com/en-au by Michelle Starr
 Brief: SSTC • 719 words • Market: Australia • Item ID: DA0053256230

A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago. If t...

AUD 4,317,481 541,728

[Read on source site](#)

**Exclusive event: Discovering Earth's oldest asteroid strike**

02 Mar 2020 10:12PM • news.curtin.edu.au by Kent Street
 Brief: SSTC • 690 words • Market: Australia • Item ID: DA0053254161

Want to find out how Curtin's very own scientists discovered Earth's oldest asteroid strike? Join us for this exclusive event on Wednesday 25 March. Research undertaken earlier this year discovered Earth's oldest asteroid strike occurred at Yarrabubba, in ...

AUD 282,850

[Read on source site](#)**Exclusive event: Discovering Earth's oldest asteroid strike**

02 Mar 2020 10:12PM • Curtin University Australia by Kent Street
 Brief: SSTC • 715 words • Market: Australia • Item ID: 1242118151

Want to find out how Curtin's very own scientists discovered Earth's oldest asteroid strike? Join us for this exclusive event on Wednesday 25 March. Research undertaken earlier this year discovered Earth's oldest asteroid strike occurred at Yarrabubba,...

AUD 2,473,591  1,740,987[Read on source site](#)**Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite**

02 Mar 2020 4:48PM • msn.com/en-gb by Michelle Starr
 Brief: SSTC • 709 words • Market: Australia • Item ID: DA0053245152

© Navicore/Wikimedia Commons/CC BY 3.0 A meteor during the peak of the 2009 Leonid Meteor Shower. A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have f...

AUD 5,577,726  325,546[Read on source site](#)**Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite**

02 Mar 2020 4:04PM • msn.com/en-ca by Michelle Starr 45 Canadians hold a record amount of... Net worth of US Presidential... 32 leading & valuable teams that took the...

Brief: SSTC • 714 words • Market: Australia • Item ID: DA0053243669

A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago. If t...

AUD 1,025,533  188,396[Read on source site](#)**Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite**

02 Mar 2020 4:00PM • msn.com/en-my by Michelle Starr
 Brief: SSTC • 694 words • Market: Australia • Item ID: DA0053243611

A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago. If th...

[Read on source site](#)


Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite

02 Mar 2020 3:57PM • msn.com/en-sg by Michelle Starr
Brief: SSTC • 695 words • Market: Australia • Item ID: DA0053243446

A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago.If th...

AUD 8,279,335  752,903

[Read on source site](#)


Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite

02 Mar 2020 3:54PM • msn.com/en-ph by Michelle Starr
Brief: SSTC • 710 words • Market: Australia • Item ID: DA0053243386

© Navicore/Wikimedia Commons/CC BY 3.0 A meteor during the peak of the 2009 Leonid Meteor Shower.A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have f...

[Read on source site](#)


Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite

02 Mar 2020 3:54PM • msn.com/en-nz by Michelle Starr
Brief: SSTC • 695 words • Market: Australia • Item ID: DA0053243369

A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago.If th...

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Meteorite observation network sets out to catch a falling star

02 Mar 2020 3:49PM • physorg.com
Brief: SSTC • 552 words • Market: Australia • Item ID: DA0053243244

March 2, 2020 byBritish scientists are turning their eyes to the skies to track meteorites before they land on UK soil—and they're looking for volunteers to help them recover the space rocks whenever and wherever they fall.The UK Fireball Network, led by ...

[Read on source site](#)


Meteorite observation network sets out to catch a falling star

02 Mar 2020 2:21PM • myscience International
Brief: SSTC • 569 words • Market: Australia • Item ID: DA0053240214

British scientists are turning their eyes to the skies to track meteorites before they land on UK soil - and they're looking for volunteers to help them recover the space rocks whenever and wherever they fall.VideoThe UK Fireball Network, led by researche...

AUD 288,649

[Read on source site](#)


British scientists launch 'Fireball Network' of cameras to track meteorites striking the UK

02 Mar 2020 2:00PM • internewscast.com by
<https://www.facebook.com/Internewscast-101253968019750>
Brief: SSTC • 867 words • Market: Australia • Item ID: DA0053239323

British scientists have launched a 'Fireball Network' of cameras to track meteorites striking the UK and triangulate the position of the fallen space rocks. The camera network — which will ultimately span ten different sites — will allow scientists to sen...

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 **Meteorite observation network sets out to catch a falling star**

02 Mar 2020 1:49PM • gla.ac.uk
Brief: SSTC • 553 words • Market: Australia • Item ID: DA0053239005

British scientists are turning their eyes to the skies to track meteorites before they land on UK soil – and they're looking for volunteers to help them recover the space rocks whenever and wherever they fall.The UK Fireball Network, led by researchers fr...

AUD 787,306

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 **Camera network created to track meteorites heading to UK**

02 Mar 2020 12:17PM • uk.yahoo.com
Brief: SSTC • 471 words • Market: Australia • Item ID: DA0053235764

Researchers are setting up a network of cameras to track meteorites heading to the UK.Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them.They said analysis of the objects wi...

AUD 39,164  3,350

[Read on source site](#)

 **British scientists launch 'Fireball Network' of cameras to track meteorites striking the UK**

02 Mar 2020 1:17PM • expressinformer.com by Express Informer
Brief: SSTC • 825 words • Market: Australia • Item ID: DA0053238064

The camera network — which will ultimately span ten different sites — will allow scientists to send out search teams to recover meteorites for analysis. Studying meteorite samples allows researchers to gain insights into the processes that formed both our...

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 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:47AM • aol.co.uk
Brief: SSTC • 494 words • Market: Australia • Item ID: DA0053234522

Researchers are setting up a network of cameras to track meteorites heading to the UK.Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them.They said analysis of the objects wi...

AUD 939,615

[Read on source site](#)

 **Meteorite observation network sets out to catch a falling star**

02 Mar 2020 1:03PM • phys.org
Brief: SSTC • 607 words • Market: Australia • Item ID: DA0053237330

Credit: CC0 Public DomainBritish scientists are turning their eyes to the skies to track meteorites before they land on UK soil—and they're looking for volunteers to help them recover the space rocks whenever and wherever they fall.The UK Fireball Network...

AUD 11,562  11,282

[Read on source site](#)

 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:33AM • uk.news.yahoo.com
Brief: SSTC • 471 words • Market: Australia • Item ID: DA0053233999

Researchers are setting up a network of cameras to track meteorites heading to the UK.Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them.They said analysis of the objects wi...

AUD 50,031  2,814

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 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:33AM • Yahoo! UK & Ireland
Brief: SSTC • 494 words • Market: Australia • Item ID: 1241850629

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the...

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 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:25AM • chesterstandard.co.uk
Brief: SSTC • 485 words • Market: Australia • Item ID: DA0053233698

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the objects wi...

AUD 197  78

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 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:31AM • swanageandwarehamvoice.co.uk
Brief: SSTC • 508 words • Market: Australia • Item ID: DA0053233944

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the objects wi...

AUD 975,530

[Read on source site](#)

 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:25AM • eppingforestguardian.co.uk
Brief: SSTC • 509 words • Market: Australia • Item ID: DA0053233657

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the objects wi...

AUD 32  11

[Read on source site](#)

 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:28AM • the-gazette.co.uk
Brief: SSTC • 508 words • Market: Australia • Item ID: DA0053233782

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the objects wi...

AUD 121  35

[Read on source site](#)

 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:24AM • newforestpost.co.uk
Brief: SSTC • 492 words • Market: Australia • Item ID: DA0053233696

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the objects wi...

AUD 919,871

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 **Camera network created to track meteorites heading to UK**

02 Mar 2020 11:24AM • thisisthewestcountry.co.uk
Brief: SSTC • 508 words • Market: Australia • Item ID: DA0053233856

Researchers are setting up a network of cameras to track meteorites heading to the UK. Scientists plan to use the data to triangulate the position of the fallen space rocks and then send out search teams to recover them. They said analysis of the objects wi...

AUD 21  10

[Read on source site](#)

 **Scientists claim to have found first known extraterrestrial protein in meteorite**

02 Mar 2020 9:12AM • iran-daily.com
Brief: SSTC • 698 words • Market: Australia • Item ID: DA0053228997

A new discovery could be a clue for us to see if life could emerge elsewhere in the solar system. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago. If th...

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 **Scientists Claim to Have Found The First Known Extraterrestrial Protein in a Meteorite**

02 Mar 2020 6:51AM • sciencealert.com by Michelle Starr
Brief: SSTC • 695 words • Market: Australia • Item ID: DA0053223700

A new discovery could be a clue for us to see if life could emerge elsewhere in the Solar System. Using a new analysis technique, scientists think they have found an extraterrestrial protein, tucked inside a meteorite that fell to Earth 30 years ago. If th...

AUD 55,702  65,048

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 **Call for combined effort on gender equity**

02 Mar 2020 12:00AM • Business News
 Brief: SSTC • 1299 words • Market: Australia • Item ID: 1241723071

Women in business WA companies are making workplaces more equitable but more change needs to come from those at the top. 4-PAGE FEATURE AS an executive in a sport historically focused more on men's participation than that of women, Christina Matthews said she was often perceived as a good administrator for women's cricket, rather than a good admini...

AUD 11,205  7,304

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 **Turbulent times revealed on Asteroid 4 Vesta**

27 Feb 2020 8:48PM • dannyboston.blogspot.com
Brief: SSTC • 666 words • Market: Australia • Item ID: DA0053133554

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourdan, from Curtin University...

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 **NASA's InSight Lander Detects Hundreds of 'Marsquakes'**

27 Feb 2020 10:25AM • Alive For Football by Kerry Garner
Brief: SSTC • 582 words • Market: Australia • Item ID: DA0053114962

Each marsquake will send vibrations, or waves, travelling through the planet. According to their studies, which were published in the journals Nature Geoscience and Nature Communications, the lander was able to detect a total of 174 seismic events on Mars...

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Asteroids: NASA sheds more light on asteroid Vesta 4 Asteroids: Study reveals that asteroid collisions can be beneficial...

27 Feb 2020 10:05AM • econotimes.com
Brief: SSTC • 373 words • Market: Australia • Item ID: DA0053114359

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

27 Feb 2020 5:05AM • abc.net.au by Genelle Weule
Brief: SSTC • 638 words • Market: Australia • Item ID: DA0053103894

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. We know a lot about the side of the Moon facing us, but no spacecraft had landed on the far side until the Chinese prob...

AUD 45,298  18,980

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

 27 Feb 2020 5:05AM • ABC Online by Genelle Weule
Brief: SSTC • 680 words • Market: Australia • Item ID: 1240135861

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. We know a lot about the side of the Moon facing us, but no spacecraft had landed on the far side until the Chinese...

AUD 63,187  2,690

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Uni explores final frontier

27 Feb 2020 12:00AM • Canning Gazette
 Brief: SSTC • 213 words • Market: Australia • Item ID: 1239860605

CURTIN University is preparing to launch its first satellites into orbit. The university has been working with Japanese space start-up company Space BD Inc to develop two CubeSat miniature satellites.

AUD 745  18,559

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Uni explores final frontier

27 Feb 2020 12:00AM • Joondalup Times
 Brief: SSTC • 200 words • Market: Australia • Item ID: 1239858178

CURTIN University is preparing to launch its first satellites into orbit. The university has been working with Japanese space start-up company Space BD Inc to develop two CubeSat miniature satellites.

AUD 1,091  24,967

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Turbulent times revealed on Asteroid 4 Vesta

26 Feb 2020 9:35PM • 7thspace.com
Brief: SSTC • 730 words • Market: Australia • Item ID: DA0053091242

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourdan, from Curtin University...

AUD 1  1

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

26 Feb 2020 9:09PM • NZCity
Brief: SSTC • 841 words • Market: Australia • Item ID: 1239986436

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest...

AUD 371  797

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

26 Feb 2020 8:47PM • WEB MSN Australia by 1 hour ago
Brief: SSTC • 852 words • Market: Australia • Item ID: 1239979515

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. We know a lot about the side of the Moon facing us, but no spacecraft had landed on the far side until the Chinese...

AUD 15,385  6,777

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

26 Feb 2020 9:09PM • home.nzcity.co.nz
Brief: SSTC • 792 words • Market: Australia • Item ID: DA0053090673

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour...

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

26 Feb 2020 7:07PM • abc.net.au by Genelle Weule
Brief: SSTC • 401 words • Market: Australia • Item ID: DA0053088183

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. We know a lot about the side of the Moon facing us, but no spacecraft had landed on the far side until the Chinese prob...

AUD 27,978  18,980

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon

26 Feb 2020 8:47PM • msn.com/en-au by 1 hour ago
Brief: SSTC • 838 words • Market: Australia • Item ID: DA0053090178

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. We know a lot about the side of the Moon facing us, but no spacecraft had landed on the far side until the Chinese pro...

AUD 5,032,731  492,846

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China's Chang'e-4 provides first detailed images of what lies beneath the far side of the Moon



26 Feb 2020 7:07PM • ABC Online by Genelle Weule
Brief: SSTC • 428 words • Market: Australia • Item ID: 1239945141

The first detailed picture of what lies beneath the far side of the Moon provides a new glimpse of our closest neighbour's violent past. We know a lot about the side of the Moon facing us, but no spacecraft had landed on the far side until the Chinese...

AUD 40,020  2,690

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Turbulent times revealed on Asteroid 4 Vesta

26 Feb 2020 4:00PM • physorg.com
Brief: SSTC • 696 words • Market: Australia • Item ID: DA0053083402

February 26, 2020 byPlanetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System.Research lead Professor Fred Jourdan, fr...

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Turbulent times revealed on Asteroid 4 Vesta

26 Feb 2020 3:50PM • sciencecodex.com
Brief: SSTC • 694 words • Market: Australia • Item ID: DA0053083077

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System.Research lead Professor Fred Jourdan, from Curtin University...

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Turbulent times revealed on Asteroid 4 Vesta

26 Feb 2020 3:26PM • sciencedaily.com
Brief: SSTC • 768 words • Market: Australia • Item ID: DA0053082433

Planetary scientists have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our solar system.FULL STORYPlanetary scientists at Curtin University have shed some light on the t...

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Turbulent times revealed on Asteroid 4 Vesta

26 Feb 2020 2:30PM • brightsurf.com
Brief: SSTC • 1038 words • Market: Australia • Item ID: DA0053080799

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System.Research lead Professor Fred Jourdan, from Curtin University...

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Turbulent times revealed on Asteroid 4 Vesta

26 Feb 2020 2:13PM • eurekaalert.org by Cosmochimica Acta
Brief: SSTC • 723 words • Market: Australia • Item ID: DA0053080188

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System.Research lead Professor Fred Jourdan, from Curtin University...

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**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 2:09PM • phys.org

Brief: SSTC • 748 words • Market: Australia • Item ID: DA0053080236

Credit: CC0 Public Domain Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourda...

AUD 13,963 10,030

[Read on source site](#)**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 12:59AM • nationaltribune.com.au

Brief: SSTC • 758 words • Market: Australia • Item ID: DA0053053256

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. A last look back at Vesta: This image if from the last seque...

AUD 348,281

[Read on source site](#)**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 2:33AM • scimex.org by Aedt Nzdt

Brief: SSTC • 793 words • Market: Australia • Item ID: DA0053056176

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourdan, from Curtin Universit...

AUD 377,358

[Read on source site](#)**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 12:59AM • nationaltribune.com.au

Brief: SSTC • 787 words • Market: Australia • Item ID: 1239486638

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. A last look back at Vesta: This image if from the last...

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26 Feb 2020 2:33AM • scimex.org by Aedt Nzdt

Brief: SSTC • 831 words • Market: Australia • Item ID: 1239596125

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourdan, from Curtin...

AUD 2,770

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26 Feb 2020 12:56AM • miragenews.com by Mirage News

Brief: SSTC • 748 words • Market: Australia • Item ID: DA0053053227

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourdan, from Curtin Universi...

AUD 345,146

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**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 12:56AM • miragenews.com by Mirage News



Brief: SSTC • 765 words • Market: Australia • Item ID: 1239486239

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. Research lead Professor Fred Jourdan , from Curtin...

AUD 2,528

[Read on source site](#)**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 12:54AM • news.curtin.edu.au

Brief: SSTC • 761 words • Market: Australia • Item ID: DA0053053181

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. A last look back at Vesta: This image if from the last seque...

AUD 349,308

[Read on source site](#)**Turbulent times revealed on Asteroid 4 Vesta**

26 Feb 2020 12:54AM • Curtin University Australia

Brief: SSTC • 790 words • Market: Australia • Item ID: 1239485710

Planetary scientists at Curtin University have shed some light on the tumultuous early days of the largely preserved protoplanet Asteroid 4 Vesta, the second largest asteroid in our Solar System. A last look back at Vesta: This image if from the last...

AUD 2,570

[Read on source site](#)**Volcanoes in Victoria reveal fresh evidence of eruptions 37,000 years ago**

25 Feb 2020 8:37PM • msn.com/en-au by 23 mins ago

Brief: SSTC • 769 words • Market: Australia • Item ID: DA0053047413

Fresh evidence shows two prominent south-west Victorian volcanoes, Budj Bim and Tower Hill, erupted at least 34,000 years ago and that people were in the area before those eruptions. Scientists involved in a study dating lava from the volcanoes said their...

AUD 4,473,814 492,846

[Read on source site](#)**Volcanoes in Victoria reveal fresh evidence of eruptions 37,000 years ago**

25 Feb 2020 8:37PM • WEB MSN Australia by 23 mins ago

Brief: SSTC • 779 words • Market: Australia • Item ID: 1239392236

Fresh evidence shows two prominent south-west Victorian volcanoes, Budj Bim and Tower Hill, erupted at least 34,000 years ago and that people were in the area before those eruptions. Scientists involved in a study dating lava from the volcanoes said...

AUD 13,705 6,777

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**Press Clips Week 08-2020**

25 Feb 2020 8:20PM • spacesafetymagazine.com
 Brief: SSTC • 3837 words • Market: Australia • Item ID: DA0053047049

TOP NEWS Coronavirus Isn't Stopping China From Launching Rockets China resumed satellite launches Wednesday (Feb. 19) amid the ongoing coronavirus outbreak, lofting a Long March 2D rocket in the country's first launch since the Chinese New Year. The Long Mar...

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**WA cross-sector technology exchange for space sector**

25 Feb 2020 2:24AM • processonline.com.au
 Brief: SSTC • 666 words • Market: Australia • Item ID: DA0053012475

The future of Western Australia's cross-sector technology exchange capabilities has taken a major leap forward with the announcement of the first cohort of small and medium-sized business innovators to take part in the Quantum Technology Exchange initiati...

AUD 387,465

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**WA cross-sector technology exchange for space sector**

25 Feb 2020 2:24AM • processonline.com.au
 Brief: SSTC • 689 words • Market: Australia • Item ID: 1238914564

The future of Western Australia's cross-sector technology exchange capabilities has taken a major leap forward with the announcement of the first cohort of small and medium-sized business innovators to take part in the Quantum Technology Exchange...

AUD 2,839

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**WA set to be centre of innovation for lunar, Martian mining tech**

24 Feb 2020 10:47PM • spaceconnectonline.com.au
 Brief: SSTC • 486 words • Market: Australia • Item ID: DA0053006355

Capitalising on its strengths in the mining industry, Western Australia is to be the headquarters of a national consortium to develop remote and robotic technologies for space exploration. That could mean WA-developed technology mining for water on the moo...

AUD 253,320

[Read on source site](#)

**WA set to be centre of innovation for lunar, Martian mining tech**

24 Feb 2020 10:47PM • spaceconnectonline.com.au
 Brief: SSTC • 509 words • Market: Australia • Item ID: 1238857611

Capitalising on its strengths in the mining industry, Western Australia is to be the headquarters of a national consortium to develop remote and robotic technologies for space exploration. That could mean WA-developed technology mining for water on the...

AUD 1,873

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**NASA InSight mission confirms Mars has quakes, but its atmosphere and magnetic fields are weird**

24 Feb 2020 8:38PM • msn.com/en-au by 4 hrs ago
Brief: SSTC • 925 words • Market: Australia • Item ID: DA0053003716

The first 10 months of data from NASA's Mars Insight mission reveal a new picture of what lies beneath the Red Planet's surface, and it's not all we expected. Every day small quakes shake the Red Planet . It also has invisible dust devils, weird pulsating...

AUD 5,726,581 492,846

[Read on source site](#)

**We've all heard of earthquakes, but what about marsquakes?**

24 Feb 2020 7:50PM • viw.com.au
Brief: SSTC • 614 words • Market: Australia • Item ID: 1238804657

NASA's InSight mission has, for the first time, recorded seismic activity coming from Mars' interior. The observations, recorded in 2019 and published today, will help understand the red planet's internal structure, composition and dynamics.

AUD 2,016

[Read on source site](#)

**NASA InSight mission confirms Mars has quakes, but its atmosphere and magnetic fields are weird**

24 Feb 2020 8:38PM • WEB MSN Australia by 4 hrs ago
Brief: SSTC • 941 words • Market: Australia • Item ID: 1238819371

The first 10 months of data from NASA's Mars Insight mission reveal a new picture of what lies beneath the Red Planet's surface, and it's not all we expected. Every day small quakes shake the Red Planet . It also has invisible dust devils, weird...

AUD 17,498 6,777

[Read on source site](#)

**First recorded 'marsquakes'reveal the red planet's rumbling guts**

24 Feb 2020 7:30PM • Australasian Science by Katarina Miljkovic
Brief: SSTC • 643 words • Market: Australia • Item ID: 1238798084

By Katarina Miljkovic, ARC DECRA fellow, Curtin UniversityNASA/JPL?CornellWe've all heard of earthquakes, but what about marsquakes? NASA's InSight mission has, for the first time, recorded seismic activity coming from Mars' interior. The observations...

AUD 2,272

[Read on source site](#)

**We've all heard of earthquakes, but what about marsquakes?**

24 Feb 2020 7:50PM • viw.com.au
Brief: SSTC • 588 words • Market: Australia • Item ID: DA0053002876

NASA's InSight mission has, for the first time, recorded seismic activity coming from Mars' interior. The observations, recorded in 2019 and published today, will help understand the red planet's internal structure, composition and dynamics. It opens a ne...

AUD 262,778

[Read on source site](#)


First recorded 'marsquakes' reveal the red planet's rumbling guts

24 Feb 2020 7:03PM • The Conversation by Katarina Miljkovic
Brief: SSTC • 585 words • Market: Australia • Item ID: 1239081863

ARC DECRA fellow, Curtin UniversityWe've all heard of earthquakes, but what about marsquakes? NASA's InSight mission has, for the first time, recorded seismic activity coming from Mars' interior. The observations, recorded in 2019 and published today...

AUD 23,532  3,475

[Read on source site](#)


NASA InSight mission confirms Mars has quakes, but its atmosphere and magnetic fields are weird

24 Feb 2020 7:00PM • home.nzcity.co.nz
Brief: SSTC • 562 words • Market: Australia • Item ID: DA0053001824

The first 10 months of data from NASA's Mars Insight mission reveal the Red Planet really does rumble, but there's a lot of things scientists are at a loss to explain.The first 10 months of data from NASA's Mars Insight mission reveal a new picture of wha...

[Read on source site](#)


First recorded 'marsquakes' reveal the red planet's rumbling guts

24 Feb 2020 7:03PM • The Conversation by Katarina Miljkovic
Brief: SSTC • 585 words • Market: Australia • Item ID: 1238790707

ARC DECRA fellow, Curtin UniversityWe've all heard of earthquakes, but what about marsquakes? NASA's InSight mission has, for the first time, recorded seismic activity coming from Mars' interior. The observations, recorded in 2019 and published today,...

AUD 23,532  3,475

[Read on source site](#)


NASA InSight mission confirms Mars has quakes, but its atmosphere and magnetic fields are weird

24 Feb 2020 7:00PM • NZCity
Brief: SSTC • 598 words • Market: Australia • Item ID: 1238789351

The first 10 months of data from NASA's Mars Insight mission reveal the Red Planet really does rumble, but there's a lot of things scientists are at a loss to explain. The first 10 months of data from NASA's Mars Insight mission reveal a new picture of...

AUD 273  797

[Read on source site](#)


First recorded 'marsquakes' reveal the red planet's rumbling guts

24 Feb 2020 7:02PM • eveningreport.nz
Brief: SSTC • 606 words • Market: Australia • Item ID: DA0053001857

Article sponsored by NewzEngine.comSource: The Conversation (Au and NZ) – By Katarina Miljkovic, ARC DECRA fellow, Curtin UniversityWe've all heard of earthquakes, but what about marsquakes?NASA's InSight mission has, for the first time, recorded seismic ...

[Read on source site](#)

**NASA InSight mission confirms Mars has quakes, but its atmosphere and magnetic fields are weird**

24 Feb 2020 4:06PM • abc.net.au by Genelle Weule
 Brief: SSTC • 885 words • Market: Australia • Item ID: DA0052998071

Share The first 10 months of data from NASA's Mars Insight mission reveal a new picture of what lies beneath the Red Planet's surface, and it's not all we expected. Every day small quakes shake the Red Planet . It also has invisible dust devils, weird pul...

AUD 66,221 18,980

[Read on source site](#)

**Curtin satellites go for launch**

21 Feb 2020 5:28AM • startupnews.com.au by Henry Thai
 Brief: SSTC • 181 words • Market: Australia • Item ID: 1237537422

WA's first pair of satellites will launched using Japanese expertise from the International Space Station and tech from a local uni... Since 2018, Curtin University has been developing miniature satellites known as a "CubeSats", which hint at their...

AUD 660

[Read on source site](#)

**NASA InSight mission confirms Mars has quakes, but its atmosphere and magnetic fields are weird**

24 Feb 2020 4:06PM • ABC Online by Genelle Weule
 Brief: SSTC • 898 words • Market: Australia • Item ID: 1238729618

Share The first 10 months of data from NASA's Mars Insight mission reveal a new picture of what lies beneath the Red Planet's surface, and it's not all we expected. Every day small quakes shake the Red Planet . It also has invisible dust devils,...

AUD 89,006 2,690

[Read on source site](#)

**Wonderful to see an agreement between Curtin University @CurtinUni and Tokyo-based company Space BD Inc will see the fir...**

21 Feb 2020 5:13AM • Twitter by Prof Peter Klinken
 Followers: 1889 • Following: 142 • Tweets: 453 • Item ID: DS0134835778

Wonderful to see an agreement between Curtin University @CurtinUni and Tokyo-based company Space BD Inc will see the first two WA-developed CubeSat's, planned and developed by Curtin, launched into orbit from the International Space Station. <https://t.co/scvuC9f9X3> #space

1,889

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**Very excited to share the work we are doing here in Australia (@CurtinSpaceSci @CurtinIC @CurtinUni) with #MachineLearn...**

22 Feb 2020 5:14AM • Twitter by Gretchen Benedix
 Followers: 160 • Following: 339 • Tweets: 362 • Item ID: DS0134942249

Very excited to share the work we are doing here in Australia (@CurtinSpaceSci @CurtinIC @CurtinUni) with #MachineLearning and #PlanetaryScience. Deriving Surface Ages on Mars using Automated Crater Counting <https://t.co/X3Acp3cdQK>

160

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 **The State Government has invested \$1.5 million into Australian Remote Operations for Space and Earth (AROSE), a partners...**

21 Feb 2020 2:35AM • Twitter by Canary Capital
Followers: 332 • Following: 161 • Tweets: 318 • Item ID: DS0134819543

The State Government has invested \$1.5 million into Australian Remote Operations for Space and Earth (AROSE), a partnership bringing Woodside Energy, Fugro, Nova Systems, Curtin University and The University of Western Australia to bid for space exploration work.

 332

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 **RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the...**

21 Feb 2020 12:00AM • Twitter by Paul Nicholls
Followers: 805 • Following: 1024 • Tweets: 5062 • Item ID: DS0134861764

RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the newly launched #AROSE consortium, comprised of @CurtinUni, @WAGovNews & @uwanews with industry partners @WoodsideEnergy, @fugro & @Nova_Systems. Read: <https://t.co/QYYN7HwFx4> <https://t.co/wh4yI0MIEm>

 805

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the...**

21 Feb 2020 12:00AM • Twitter by Doc Maayah (Fadi Maayah)
Followers: 231 • Following: 553 • Tweets: 2527 • Item ID: DS0134808639

RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the newly launched #AROSE consortium, comprised of @CurtinUni, @WAGovNews & @uwanews with industry partners @WoodsideEnergy, @fugro & @Nova_Systems. Read: <https://t.co/QYYN7HwFx4> <https://t.co/wh4yI0MIEm>

 231

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 **RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the...**

21 Feb 2020 12:00AM • Twitter by Pamela Melroy
Followers: 3594 • Following: 132 • Tweets: 1014 • Item ID: DS0134844351

RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the newly launched #AROSE consortium, comprised of @CurtinUni, @WAGovNews & @uwanews with industry partners @WoodsideEnergy, @fugro & @Nova_Systems. Read: <https://t.co/QYYN7HwFx4> <https://t.co/wh4yI0MIEm>

 3,594

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the newly launched...**

21 Feb 2020 12:00AM • Twitter by Curtin University
Followers: 36197 • Following: 1979 • Tweets: 9350 • Item ID: DS0134803883

Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the newly launched #AROSE consortium, comprised of @CurtinUni, @WAGovNews & @uwanews with industry partners @WoodsideEnergy, @fugro & @Nova_Systems. Read: <https://t.co/QYYN7HwFx4> <https://t.co/wh4yI0MIEm>

 36,197

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the...**

21 Feb 2020 12:00AM • Twitter by Kate TRINAJSTIC
Followers: 136 • Following: 282 • Tweets: 74 • Item ID: DS0134818524

RT @CurtinUni: Curtin's planetary #scientists will contribute to remote operations on the Moon & Mars as part of the newly launched #AROSE consortium, comprised of @CurtinUni, @WAGovNews & @uwanews with industry partners @WoodsideEnergy, @fugro & @Nova_Systems. Read: <https://t.co/QYYN7HwFx4> <https://t.co/wh4yI0MIEm>

 136

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 **Curtin Uni and Japanese company set to launch small satellite from ISS**

20 Feb 2020 9:01PM • spaceconnectonline.com.au
Brief: SSTC • 207 words • Market: Australia • Item ID: DA0052902183

West Australia's Curtin University and Japanese space start-up Space BD Inc are set to launch a pair of miniature satellites from the Japanese Experiment Module Kibo on the International Space Station (ISS). Curtin University has been developing the satell...

AUD 106,041

[Read on source site](#)

 **Curtin Uni and Japanese company set to launch small satellite from ISS**

20 Feb 2020 9:01PM • spaceconnectonline.com.au
Brief: SSTC • 217 words • Market: Australia • Item ID: 1237338044

West Australia's Curtin University and Japanese space start-up Space BD Inc are set to launch a pair of miniature satellites from the Japanese Experiment Module Kibo on the International Space Station (ISS). Curtin University has been developing the...

AUD 805

[Read on source site](#)

 **Space sector accelerator QuantumTX announces first cohort**

20 Feb 2020 9:20AM • startupnews.com.au

Brief: SSTC • 724 words • Market: Australia • Item ID: 1237472932

QuantumTX has unveiled its first cohort to drive cross-sector technology exchange across \$314 billion space sector. Australia is known to have world-leading capabilities in remote operations, AI, Digital Twinning and Simulation, Digital Communications...

AUD 3,430

[Read on source site](#)

 **From WA to the Moon**

20 Feb 2020 5:42AM • news.curtin.edu.au

Brief: SSTC • 434 words • Market: Australia • Item ID: DA0052875944

Curtin's planetary scientists will contribute to remote operations on the Moon and Mars as part of an exciting new Australian space consortium. Image: NASAPerth is set to become a global centre for remote operations in space, using local expertise that wil...

AUD 226,836

[Read on source site](#)

 **From WA to the Moon**

20 Feb 2020 5:42AM • Curtin University Australia

Brief: SSTC • 455 words • Market: Australia • Item ID: 1237016556

Curtin's planetary scientists will contribute to remote operations on the Moon and Mars as part of an exciting new Australian space consortium. Image: NASA Perth is set to become a global centre for remote operations in space, using local expertise...

AUD 1,679

[Read on source site](#)

 **The latest Smallsat Daily! <https://t.co/vMFzzfSwnW> Thanks to @CurtinUni #cubesat #cubesats**

19 Feb 2020 3:20PM • Twitter by The Rocket CEO (Matthew Travis)

Followers: 2295 • Following: 1126 • Tweets: 21843 • Item ID: DS0134661212

The latest Smallsat Daily! <https://t.co/vMFzzfSwnW> Thanks to @CurtinUni #cubesat #cubesats

 2,295

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 **RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites ...**

19 Feb 2020 3:00AM • Twitter by Space Cafe Perth

Followers: 205 • Following: 426 • Tweets: 655 • Item ID: DS0134658767

RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International @Space_Station. ☐☐
Read: <https://t.co/qq3uB4RZ9z> #CurtinResearch @CurtinSpaceSci
<https://t.co/iRcfKUJEE4>

 205

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 **RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites ...**

19 Feb 2020 3:00AM • Twitter by matteovinci (Matteo Vinci)
Followers: 1725 • Following: 4053 • Tweets: 17929 • Item ID: DS0134658670

RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International @Space_Station. ☐☐
Read: <https://t.co/qq3uB4RZ9z> #CurtinResearch @CurtinSpaceSci
<https://t.co/iRcfKUJEE4>

 1,725

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 **RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites ...**

19 Feb 2020 3:00AM • Twitter by Chris Moran
Followers: 209 • Following: 309 • Tweets: 1530 • Item ID: DS0134683459

RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International @Space_Station. ☐☐
Read: <https://t.co/qq3uB4RZ9z> #CurtinResearch @CurtinSpaceSci
<https://t.co/iRcfKUJEE4>

 209

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites ...**

19 Feb 2020 3:00AM • Twitter by Kate TRINAJSTIC
Followers: 131 • Following: 262 • Tweets: 63 • Item ID: DS0134594627

RT @CurtinUni: @CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International @Space_Station. ☐☐
Read: <https://t.co/qq3uB4RZ9z> #CurtinResearch @CurtinSpaceSci
<https://t.co/iRcfKUJEE4>

 131

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 **@CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites into orbit from...**

19 Feb 2020 3:00AM • Twitter by Curtin University
Followers: 36186 • Following: 1979 • Tweets: 9347 • Item ID: DS0134593458

@CurtinUni and Tokyo-based start-up @spacebd_inc, will together launch two #CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International @Space_Station. ☐☐ Read:
<https://t.co/qq3uB4RZ9z> #CurtinResearch @CurtinSpaceSci
<https://t.co/iRcfKUJEE4>

 36,186

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Perth makes bid for slice of new generation space race pie**

19 Feb 2020 2:08AM • manmonthly.com.au

Brief: SSTC • 401 words • Market: Australia • Item ID: DA0052827474

Perth will soon to be home to a national consortium aiming to capitalise on locally developed robotic technologies for space exploration, such as mining for water on the Moon. The venture could inject \$200 million per year into the local economy in five y...

AUD 189,544

[Read on source site](#)

 **Perth makes bid for slice of new generation space race pie**

19 Feb 2020 2:08AM • Manufacturers Monthly

Brief: SSTC • 418 words • Market: Australia • Item ID: 1236422737

Perth will soon to be home to a national consortium aiming to capitalise on locally developed robotic technologies for space exploration, such as mining for water on the Moon. The venture could inject \$200 million per year into the local economy in fiv...

AUD 1,172

[Read on source site](#)

 **UWA scientists part of a new Perth space agency**

18 Feb 2020 5:05PM • pressreleasepoint.com by Gia Parish, Pru Steinerts, Colonel Pam Melroy, Aude Viganelles, Anthony Fortina

Brief: SSTC • 355 words • Market: Australia • Item ID: DA0052812969

Posted February 18th, 2020 for University of Western AustraliaStoriesThe University of Western Australia is part of a new consortium that will position Perth as a global centre for remote operations in space, where universities and industry will collabora...

[Read on source site](#)

 **AROSE, a national agency based in WA, is working to build a new space station near the moon.**


18 Feb 2020 2:31PM • Sky News Live by Kieran Gilbert

Brief: SSTC • 18 words • Market: Australia • Item ID: X00082171154

AROSE, a national agency based in WA, is working to build a new space station near the moon.

AUD 650  13,000

Also broadcast from: Sky News Live (Tasmania), Sky News Live (Regional Victoria), Sky News Live (Regional Queensland), Sky News Live (Regional NSW), Sky News Live (Perth) and 4 more

 **We are pleased to announce this!**

18 Feb 2020 9:08AM • Twitter by Space BD Inc.

Followers: 735 • Following: 109 • Tweets: 149 • Item ID: DS0134517817

We are pleased to announce this!

 735

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 **@CurtinUni and Space BD announced today that we will launch together Binar-1 (1U CubeSat) and Binar-2 (3U CubeSat), whic...**

18 Feb 2020 9:05AM • Twitter by Space BD Inc.

Followers: 735 • Following: 109 • Tweets: 148 • Item ID: DS0134517544

@CurtinUni and Space BD announced today that we will launch together Binar-1 (1U CubeSat) and Binar-2 (3U CubeSat), which are the first pair of satellites launched from Curtin University as well as Western Australia <https://t.co/ypWApQrR9h>

 735

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Perth has been chosen as the base for a new research centre working on robotic and remote vehicles. The centre will work...**

 18 Feb 2020 8:32AM • Channel 7

Brief: SSTC • 57 words • Market: Australia • Item ID: X00082168550

Perth has been chosen as the base for a new research centre working on robotic and remote vehicles. The centre will work with NASA to adapt to technology already used in WA for the use of the moon, Mars and beyond. The centre is expected to create 1500 jobs and inject \$200m a year into the economy.

AUD 1,025  34,000

 **Perth has been chosen as the base for a new research centre working on robotic and remote vehicles. The centre will work...**

 18 Feb 2020 7:32AM • Channel 7 by Matt Tinney

Brief: SSTC • 56 words • Market: Australia • Item ID: X00082169748

Perth has been chosen as the base for a new research centre working on robotic and remote vehicles. The centre will work with NASA to adapt to technology already used in WA for use on the moon, Mars, and beyond. The centre is expected to create 1500 jobs and inject \$200m a year into the economy.

AUD 1,271  48,000

 **RT @CurtinMedia: Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here http...**

18 Feb 2020 7:22AM • Twitter by Kate TRINAJSTIC

Followers: 126 • Following: 232 • Tweets: 61 • Item ID: DS0134529008

RT @CurtinMedia: Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here
https://t.co/HHU8s6903Z #outerspace #satellites
#internationalspacestation

 126

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 **RT @CurtinMedia: Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here http...**

18 Feb 2020 7:22AM • Twitter by John Cordery

Followers: 111 • Following: 237 • Tweets: 452 • Item ID: DS0134524165

RT @CurtinMedia: Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here
https://t.co/HHU8s6903Z #outerspace #satellites
#internationalspacestation

 111

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 **RT @CurtinMedia: Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here http...**

18 Feb 2020 7:22AM • Twitter by Chris Moran

Followers: 209 • Following: 309 • Tweets: 1527 • Item ID: DS0134531085

RT @CurtinMedia: Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here
https://t.co/HHU8s6903Z #outerspace #satellites
#internationalspacestation

 209

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 **Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here https://t.co/HHU8s690...**

18 Feb 2020 7:22AM • Twitter by Curtin Media
Followers: 3658 • Following: 3558 • Tweets: 9262 • Item ID: DS0134505977

Japanese #space #startup @spacebd_inc to launch @CurtinUni CubeSats into orbit. #Mediarelease here https://t.co/HHU8s6903Z #outerspace #satellites #internationalspacestation

 3,658

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 **Perth has been chosen to be the base for a new research centre working on robotic and remote vehicles. The centre will w...**

 18 Feb 2020 7:05AM • Channel 7 by Natalie Barr
Brief: SSTC • 58 words • Market: Australia • Item ID: X00082168360

Perth has been chosen to be the base for a new research centre working on robotic and remote vehicles. The centre will work with NASA to adapt to technology already used in WA for the use of the moon, Mars and beyond. The centre is expected to create 1500 jobs and inject \$200m a year into the economy.

AUD 2,347  49,000

 **Japanese space startup Space BD to launch Curtin University CubeSats into orbit**

18 Feb 2020 6:50AM • nationaltribune.com.au
Brief: SSTC • 474 words • Market: Australia • Item ID: DA0052791930

Curtin University and Tokyo-based start-up company Space BD Inc will together launch two CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International Space Station (ISS).Space BD Inc is the official service provide...

AUD 238,511

[Read on source site](#)

 **Japanese space startup Space BD to launch Curtin University CubeSats into orbit**

18 Feb 2020 6:50AM • nationaltribune.com.au
Brief: SSTC • 491 words • Market: Australia • Item ID: 1236008035

Curtin University and Tokyo-based start-up company Space BD Inc will together launch two CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International Space Station (ISS). Space BD Inc is the official service...

[Read on source site](#)

 **Japanese space startup Space BD to launch Curtin University CubeSats into orbit**

18 Feb 2020 6:48AM • miragenews.com by Mirage News
Brief: SSTC • 493 words • Market: Australia • Item ID: DA0052791906

Curtin University and Tokyo-based start-up company Space BD Inc will together launch two CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International Space Station (ISS). Space BD Inc is the official service provid...

AUD 246,726

[Read on source site](#)


Japanese space startup Space BD to launch Curtin University CubeSats into orbit

 18 Feb 2020 6:48AM • miragenews.com by Mirage News
 Brief: SSTC • 496 words • Market: Australia • Item ID: 1236007719

Curtin University and Tokyo-based start-up company Space BD Inc will together launch two CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International Space Station (ISS). Space BD Inc is the official service...

AUD 1,478

[Read on source site](#)

Regular Segment: Science Chat with Professor Alan Duffy, astrophysics, Swinburne University. Sammy says Duffy is a lea...

 18 Feb 2020 6:39AM • ABC Radio Melbourne by SAMMY J
 Brief: SSTC • 157 words • Market: Australia • Item ID: X00082162806

Regular Segment: Science Chat with Professor Alan Duffy, astrophysics, Swinburne University. Sammy says Duffy is a lead scientist at the Royal Institution of Australia. Duffy states a group of students from Haileybury High School and Haileybury College managed to launch an experiment to the International Space Station. He notes the experiment was...

AUD 10,167  59,000

Japanese space startup Space BD to launch Curtin University CubeSats into orbit

 18 Feb 2020 6:46AM • news.curtin.edu.au
 Brief: SSTC • 474 words • Market: Australia • Item ID: DA0052791909

Curtin University and Tokyo-based start-up company Space BD Inc will together launch two CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International Space Station (ISS). Space BD Inc is the official service provide...

AUD 238,511

[Read on source site](#)

A national agency based in WA is working to help NASA build a new space station. The company wants to draw a remote oper...

 18 Feb 2020 6:24AM • Sky News Live by Peter Stefanovic and Laura Jayes
 Brief: SSTC • 120 words • Market: Australia • Item ID: X00082162814

A national agency based in WA is working to help NASA build a new space station. The company wants to draw a remote operations ability to direct robots in outer space. Russell Potapinkski, Arose Chair, says they want to do science to advance the cause of humanity. Pamela Melroy, astronaut, says it is in its infancy in the space arena. WA is already...

AUD 398  8,000

Japanese space startup Space BD to launch Curtin University CubeSats into orbit

 18 Feb 2020 6:46AM • Curtin University Australia
 Brief: SSTC • 491 words • Market: Australia • Item ID: 1236007701

Curtin University and Tokyo-based start-up company Space BD Inc will together launch two CubeSat miniature satellites into orbit from the Japanese Experiment Module Kibo on the International Space Station (ISS). Space BD Inc is the official service...

AUD 1,437

[Read on source site](#)

Also broadcast from: Sky News Live (Tasmania), Sky News Live (Regional Victoria), Sky News Live (Regional Queensland), Sky News Live (Regional NSW), Sky News Live (Perth) and 4 more

 **A national agency based in WA is working to help NASA build a new space station. The company wants to draw a remote oper...**
 18 Feb 2020 6:20AM • WIN Canberra by Samantha Chiari
Brief: SSTC • 122 words • Market: Australia • Item ID: X00082164768

A national agency based in WA is working to help NASA build a new space station. The company wants to draw a remote operations ability to direct robots in outer space. Russell Potapinski, AROSE Chair, says they want to do science to advance the cause of humanity. Pamela Melroy, astronaut, says it is in its infancy in the space arena. WA is already ...

AUD 9,492  8,000

Also broadcast from: Sky News on WIN (Hobart), Sky News on WIN (Regional Queensland), Sky News on WIN (Regional West Australia), Sky News on WIN (Regional Victoria), Sky News on WIN (Canberra) and 29 more

 **The headquarters for a new robotic consortium that will play a significant role in space exploration has been named for ...**
 18 Feb 2020 6:02AM • POWER FM Illawarra
Brief: SSTC • 50 words • Market: Australia • Item ID: X00082163405

The headquarters for a new robotic consortium that will play a significant role in space exploration has been named for Perth. Nasa will work with automation and technology experts based in Perth. Former space shuttle commander Pamela Melrose states Australia is capable of being a world leader in space technology.

 **Miners' space race collaboration to boost talent pool and supplier diversity**

 18 Feb 2020 5:44AM • spglobal.com by Anthony Barich
Brief: SSTC • 3466 words • Market: Australia • Item ID: 1235990203

Several Australian mining companies have been involved in the formation of a new consortium launched on Feb. 17 in Perth that could see the industry's remote and robotic technologies used in exploring Mars and mining water from the moon. Western...

[Read on source site](#)
 **UWA scientists part of a new Perth space agency**

 18 Feb 2020 5:12AM • news.uwa.edu.au
Brief: SSTC • 294 words • Market: Australia • Item ID: DA0052788980

The University of Western Australia is part of a new consortium that will position Perth as a global centre for remote operations in space, where universities and industry will collaborate on space exploration projects such as NASA's Lunar Gateway. The Aus...

AUD 149,225

[Read on source site](#)
 **UWA scientists part of a new Perth space agency**

 18 Feb 2020 5:12AM • University of Western Australia
Brief: SSTC • 309 words • Market: Australia • Item ID: 1235981912

The University of Western Australia is part of a new consortium that will position Perth as a global centre for remote operations in space, where universities and industry will collaborate on space exploration projects such as NASA's Lunar Gateway. The...

[Read on source site](#)


Perth will host the headquarters for a special space project for NASA's mission to Mars. WA's mining expertise will be u...

 18 Feb 2020 5:07AM • Channel 9 by Elizabeth Bryan
 Brief: SSTC • 26 words • Market: Australia • Item ID: X00082164645

Perth will host the headquarters for a special space project for NASA's mission to Mars. WA's mining expertise will be used for future intergalactic exploration projects.

 AUD 6,245  43,000

Also broadcast from: Southern Cross Sunshine Coast (Sunshine Coast), Southern Cross Nine Central West (Orange), West Digital Television (Albany), Tasmania Digital Television (Hobart), Southern Cross Wagga Wagga (Wagga Wagga) and 29 more


UWA scientists part of a new Perth space agency

 18 Feb 2020 5:06AM • nationaltribune.com.au
 Brief: SSTC • 294 words • Market: Australia • Item ID: DA0052788792

The University of Western Australia is part of a new consortium that will position Perth as a global centre for remote operations in space, where universities and industry will collaborate on space exploration projects such as NASA's Lunar Gateway. The Aus...

AUD 149,225

[Read on source site](#)

UWA scientists part of a new Perth space agency

 18 Feb 2020 5:06AM • nationaltribune.com.au
 Brief: SSTC • 309 words • Market: Australia • Item ID: 1235980292

The University of Western Australia is part of a new consortium that will position Perth as a global centre for remote operations in space, where universities and industry will collaborate on space exploration projects such as NASA's Lunar Gateway. The...

[Read on source site](#)

Shooting for the stars in a smart WA

 18 Feb 2020 12:36AM • BN Western Australia by Matt McKenzie
 Brief: SSTC • 1748 words • Market: Australia • Item ID: 1237456198

Ambitious entrepreneurs and sensible policies could make WA the world's pre-eminent location for data analytics, remote operations and high-tech industries. Matt Lamont has created a successful business analysing data from deep beneath the sea, but now...

AUD 4,340

[Read on source site](#)

WA has part in space race

 18 Feb 2020 12:00AM • Fraser Coast Chronicle
 Brief: SSTC • 85 words • Market: Australia • Item ID: 1235692287

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

 AUD 40  5,645

[View original](#)

**Mining skills push WA into space race**

18 Feb 2020 12:00AM • Kalgoorlie Miner



Brief: SSTC • 129 words • Market: Australia • Item ID: 1235765002

Robots controlled from WA could help build outposts on the Moon and Mars after Perth was selected as the headquarters for a national consortium to find celestial uses for the State's autonomous mining expertise. Up to 1500 space industry jobs are forecast over the next five years as WA positions itself as a key player in NASA's mission to return as...

AUD 188 2,826

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Sunshine Coast Daily

Brief: SSTC • 85 words • Market: Australia • Item ID: 1235754954

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jobs...

AUD 50 10,046

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Gympie Times

Brief: SSTC • Market: Australia • Item ID: 1235688707

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jobs...

AUD 39 2,997

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Daily Examiner

Brief: SSTC • 85 words • Market: Australia • Item ID: 1235655666

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jobs...

AUD 34 3,249

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Morning Bulletin

Brief: SSTC • 85 words • Market: Australia • Item ID: 1235755152

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jobs...

AUD 46 9,049

[View original](#)

**WA has part in space race**

18 Feb 2020 12:00AM • Queensland Times
 Brief: SSTC • 85 words • Market: Australia • Item ID: 1235704286

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 35 6,256

[View original](#)

**WA has part in space race**

18 Feb 2020 12:00AM • Toowoomba Chronicle
 Brief: SSTC • Market: Australia • Item ID: 1235709855

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 76 14,016

[View original](#)

**One giant leap for WA**

18 Feb 2020 12:00AM • West Australian
 Brief: SSTC • 133 words • Market: Australia • Item ID: 1235750580

Robots controlled from WA could help build outposts on the Moon and Mars after Perth was selected as the headquarters for a national consortium that aims to find celestial uses for the State's autonomous mining expertise. Up to 1500 space industry jobs are forecast over the next five years as WA positions itself as a key player in NASA's mission to...

AUD 1,315 135,996

[View original](#)

**Perth joins space race**

18 Feb 2020 12:00AM • Courier Mail
 Brief: SSTC • 79 words • Market: Australia • Item ID: 1235689364

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth - an industry-led, non-profit consortium - is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The n...

AUD 939 135,007

[View original](#)

**WA has part in space race**

18 Feb 2020 12:00AM • Cairns Post
 Brief: SSTC • 85 words • Market: Australia • Item ID: 1235743529

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 221 13,896

[View original](#)

**WA has part in space race**

18 Feb 2020 12:00AM • Townsville Bulletin



Brief: SSTC • 85 words • Market: Australia • Item ID: 1235754506

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 273 16,484

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • News Mail

Brief: SSTC • 85 words • Market: Australia • Item ID: 1235695128

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 40 6,176

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Northern Star

Brief: SSTC • 85 words • Market: Australia • Item ID: 1235648405

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 40 6,950

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Daily Mercury



Brief: SSTC • 85 words • Market: Australia • Item ID: 1235687092

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 46 7,207

[View original](#)**WA has part in space race**

18 Feb 2020 12:00AM • Gold Coast Bulletin



Brief: SSTC • 85 words • Market: Australia • Item ID: 1235754902

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 293 21,468

[View original](#)

**WA has part in space race**

18 Feb 2020 12:00AM • Gladstone Observer
Brief: SSTC • Market: Australia • Item ID: 1235704873

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 35 3,301

[View original](#)

**As part of NASA's partnership with Australia, a space robotics centre will be built in Perth. Former space commander Pam...**

17 Feb 2020 9:01PM • 6PR
Brief: SSTC • 49 words • Market: Australia • Item ID: X00082161674

As part of NASA's partnership with Australia, a space robotics centre will be built in Perth. Former space commander Pamela Melroy says Australia is capable of being a world leader in the field of space technology with world-class remote asset management technologies that could help in global space exploration.

AUD 97 7,000

**WA has part in space race**

18 Feb 2020 12:00AM • Daily News
Brief: SSTC • Market: Australia • Item ID: 1235690758

WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jo...

AUD 28 2,308

[View original](#)

**Perth has joined NASA in its space race to Mars.**

17 Feb 2020 6:52PM • Channel 9 by Michael Thomson
Brief: SSTC • 10 words • Market: Australia • Item ID: X00082160157

Perth has joined NASA in its space race to Mars.

AUD 1,515 95,000

**Robotics centre puts Perth in space race**

18 Feb 2020 12:00AM • Barrier Daily Truth
Brief: SSTC • 191 words • Market: Australia • Item ID: 1235738756

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the AustralianNASA partnership, developing technologies to assist in the international space race.

AUD 406 4,869

[View original](#)

**Interview with Russell Potapinski, Chair, Australian Remote Operations for Space and Earth Centre. Bartholomew notes the...**

17 Feb 2020 6:50PM • ABC News by Glenn Bartholomew
Brief: SSTC • 195 words • Market: Australia • Item ID: X00082167769

Interview with Russell Potapinski, Chair, Australian Remote Operations for Space and Earth Centre. Bartholomew notes the Australian Remote Operations for Space and Earth Centre is being set up in WA, helping to develop autonomous and remote mining technology for NASA's missions to the Moon and Mars. Potapinski says Australia has amazing capabilitie...

AUD 8,518 29,000

Also broadcast from: ABC News (Gold Coast), ABC News (Newcastle), ABC News (Canberra), ABC News (Perth), ABC News (Adelaide) and 2 more

 **Australian Remote Operations for Space and Earth has announced Perth has been chosen for a new research centre working o...**

 17 Feb 2020 6:16PM • Channel 7 by Rick Ardon and Susannah Carr
Brief: SSTC • 90 words • Market: Australia • Item ID: X00082161710

Australian Remote Operations for Space and Earth has announced Perth has been chosen for a new research centre working on robotic and remote vehicles. It will work with NASA as it prepares to send astronauts back to the moon and will create 1500 of jobs over the next five years and inject around \$200m into the economy annually. The project is suppo...

AUD 16,643  185,000

 **Perth has been named as the headquarters for a new robotics consortium called Australian Remote Operations for Space and...**



17 Feb 2020 6:02PM • 6PR

Brief: SSTC • 70 words • Market: Australia • Item ID: X00082161312

Perth has been named as the headquarters for a new robotics consortium called Australian Remote Operations for Space and Earth. It is set to play a major role in space exploration. NASA has plans for humans to be back on the moon by 2024 with the help of WA. Some of NASA's current projects include the Moon to Mars Mission and building an internatio...

AUD 310  21,000

 **As part of NASA's partnership with Australia, a space robotics centre will be built in Perth. Around 1500 jobs will be o...**



17 Feb 2020 4:51PM • Channel 9 by Tracy Vo

Brief: SSTC • 46 words • Market: Australia • Item ID: X00082161550

As part of NASA's partnership with Australia, a space robotics centre will be built in Perth. Around 1500 jobs will be opened with a boost to the economy of around 196 million dollars, aiming to pave way for West Australia to enter the international space stage.

AUD 311  20,000

 **Perth has been named as the headquarters for a new robotics consortium called Australian Remote Operations for Space and...**



17 Feb 2020 4:11PM • Channel 7 by Tina Altieri

Brief: SSTC • 66 words • Market: Australia • Item ID: X00082160357

Perth has been named as the headquarters for a new robotics consortium called Australian Remote Operations for Space and Earth. It is set to play a major role in space exploration. NASA has plans for humans to be back on the moon by 2024 with the help of WA. It is expected 15,000 jobs will be generated and will inject around \$200m into the economy ...

AUD 3,545  45,000

 **Continuing press conference with WA Minister for Science, Innovation and ICT Dave Kelly, former NASA Astronaut Pam Melro...**

17 Feb 2020 3:17PM • Sky News COVID-19
Brief: SSTC • 341 words • Market: Australia • Item ID: X00082167595

Continuing press conference with WA Minister for Science, Innovation and ICT Dave Kelly, former NASA Astronaut Pam Melroy, and AROSE inaugural chair Russell Potapinski, in Perth. Potapinski says AROSE will have joint projects. He mentions Curtin University's cubesat project saw members jointly solve a problem around satellite communications. He not...

 **Perth's stake in the space industry is moving up to securing the headquarters for a new national space robotic centre. A...**

17 Feb 2020 2:00PM • 96 FM
Brief: SSTC • 64 words • Market: Australia • Item ID: X00082157182

Perth's stake in the space industry is moving up to securing the headquarters for a new national space robotic centre. According to Science Minister Dave Kelly, WA is the ideal provider as it is already working remotely in the Pilbara and NASA is aware of the State's capability. It is expected to create 1500 local jobs and inject \$200m a year into ...

AUD 421  43,000

 **Press conference with WA Minister for Science, Innovation and ICT Dave Kelly, former NASA Astronaut Pam Melroy, and AROS...**

17 Feb 2020 3:10PM • Sky News COVID-19
Brief: SSTC • 391 words • Market: Australia • Item ID: X00082167571

Press conference with WA Minister for Science, Innovation and ICT Dave Kelly, former NASA Astronaut Pam Melroy, and AROSE inaugural chair Russell Potapinski, in Perth. Melroy says she's excited about the Australian Remote Operations for Space and Earth consortium. She notes she lived in Australia around the founding of the Space Agency. She adds th...

 **Panel discussion with Lindsay Brennan, 6PR and Mick Colliss, vice-captain, Australian sudoku team. Beaumont says Brenn...**

17 Feb 2020 1:22PM • 6PR by Simon Beaumont
Brief: SSTC • 117 words • Market: Australia • Item ID: X00082156074

Panel discussion with Lindsay Brennan, 6PR and Mick Colliss, vice-captain, Australian sudoku team. Beaumont says Brennan has gone to a press conference involving space. Brennan states there were robots inside. She notes WA at the moment is doing very well in the automation sector. She states the state already uses automation in mining. She notes ...

AUD 1,167  17,000

 **Robots controlled from WA may help NASA and other future space missions as Perth was named as the headquarters of a robo...**

17 Feb 2020 3:02PM • 6PR
Brief: SSTC • 35 words • Market: Australia • Item ID: X00082157443

Robots controlled from WA may help NASA and other future space missions as Perth was named as the headquarters of a robotics consortium. Science Minister Dave Kelly says this is a good opportunity for WA.

AUD 469  27,000

**WA will be working with NASA to develop ways on how robotics can be used in space. The Australian Remote Operations for ...**

17 Feb 2020 1:02PM • 6PR

Brief: SSTC • 59 words • Market: Australia • Item ID: X00082155981

WA will be working with NASA to develop ways on how robotics can be used in space. The Australian Remote Operations for Space and Earth will be launching a headquarters in Perth formed by a number of universities, mining companies, and technology companies. Science Minister Dave Kelly says there is already a remotely operated drilling equipment in ...

AUD 482 33,000

**Robotics centre puts Perth in space race**17 Feb 2020 11:00AM • armidaleexpress.com.au by Patrick James
Brief: SSTC • 385 words • Market: Australia • Item ID: DA0052763556

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 5 9

[Read on source site](#)**Perth will be home to the headquarters of the Australian Remote Operations for Space and Earth, which may generate 1500 ...**

17 Feb 2020 12:01PM • NOVA 93.7

Brief: SSTC • 22 words • Market: Australia • Item ID: X00082155491

Perth will be home to the headquarters of the Australian Remote Operations for Space and Earth, which may generate 1500 local jobs.

AUD 163 28,000

**Interview with Colonel Pamela Melroy, director, Australian Remote Operations for Space and Earth. Woolf discusses automa...**17 Feb 2020 9:14AM • ABC Radio Perth by Russell Woolf and Nadia Mitsopoulos
Brief: SSTC • 362 words • Market: Australia • Item ID: X00082152482

Interview with Colonel Pamela Melroy, director, Australian Remote Operations for Space and Earth. Woolf discusses automation in the mining industry and the possibility of remote operations in space. He mentions WA's role in the field led the announcement of Perth being the headquarters of a new national consortium. Mitsopoulos says its job is to de...

AUD 5,086 32,000

**Perth has been named as the headquarters for a new robotics consortium called Australian Remote Operations for Space and...**

17 Feb 2020 11:02AM • 6PR

Brief: SSTC • 112 words • Market: Australia • Item ID: X00082154176

Perth has been named as the headquarters for a new robotics consortium called Australian Remote Operations for Space and Earth. It is set to play a major role in space exploration. NASA has plans for humans to be back on the moon by 2024 with the help of WA. The AROSE will develop the ways by which robotics can assist with space exploration as well...

AUD 824 43,000

**A national not-for-profit consortium, the Australian Report Operations for Space and Earth Centre will base its headquar...**

17 Feb 2020 9:02AM • 6PR

Brief: SSTC • 35 words • Market: Australia • Item ID: X00082152349

A national not-for-profit consortium, the Australian Report Operations for Space and Earth Centre will base its headquarters in Perth. It will allow WA to play a key role in the Australian-NASA moon to Mars partnership.

AUD 336 54,000

**News Headlines - Federal Government will decide today if it will reportedly evacuate Australians stranded on the Diamond...**

17 Feb 2020 8:34AM • Radio National by Fran Kelly

Brief: SSTC • 88 words • Market: Australia • Item ID: X00082147981

News Headlines - Federal Government will decide today if it will reportedly evacuate Australians stranded on the Diamond Princess cruise ship in Yokohama, Japan amid the coronavirus pandemic. - Federal Government will reform the policies for backpackers on working holiday visas in a bid to get them into bushfire-impacted communities. - The new fac...

AUD 10,146 121,000

Also broadcast from: Radio National (Newcastle), Radio National (Darwin), Radio National (Adelaide), Radio National (Hobart), Radio National (Perth) and 3 more

**Perth will be the new home of a new centre that will help convert remotely operated mining technology for space explorat...**

17 Feb 2020 7:53AM • ABC Radio Perth

Brief: SSTC • 57 words • Market: Australia • Item ID: X00082151093

Perth will be the new home of a new centre that will help convert remotely operated mining technology for space explorations. The Australian Remote Operations for Space and Earth Centre will be funded by private sectors, universities, and the WA Government. WA Science and Innovation Minister says it will give WA a role to work with NASA.

AUD 1,058 38,000

Also broadcast from: ABC Pilbara (Karratha), ABC Kimberley (Broome), ABC Midwest and Wheatbelt (Geraldton), ABC Goldfields WA (Kalgoorlie), ABC South West WA (Bunbury) and 1 more

**Robotics centre puts Perth in space race**

17 Feb 2020 7:41AM • news.com.au by Patrick James

Brief: SSTC • 204 words • Market: Australia • Item ID: DA0052757436

A Perth-based space robotics centre will adapt world-class technology for space missions and enable WA bids for projects like NASA's Lunar Gateway program. World-class technology will be adapted for remote operations on the moon and Mars at a national spac...

AUD 39,128 25,541

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 7:41AM • NEWS.com.au by Patrick James

Brief: SSTC • 216 words • Market: Australia • Item ID: 1235617524

A Perth-based space robotics centre will adapt world-class technology for space missions and enable WA bids for projects like NASA's Lunar Gateway program. World-class technology will be adapted for remote operations on the moon and Mars at a national...

AUD 8,150 10,387

[Read on source site](#)**Perth joins forces with NASA to launch world-class robotics space centre**

17 Feb 2020 7:21AM • news.google.com by Pip Christmass

Brief: SSTC • 284 words • Market: Australia • Item ID: DA0052756761

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. Credit: EPAPerth may be one of the most isolated cities in the world but it is about to become a key player in the international space race, thanks to a ne...

[Read on source site](#)**Perth joins forces with NASA to launch world-class robotics space centre**

17 Feb 2020 7:21AM • news.google.com by Pip Christmass

Brief: SSTC • 303 words • Market: Australia • Item ID: 1235591118

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. Credit: EPA Perth may be one of the most isolated cities in the world but it is about to become a key player in the international space race, thanks to ...

[Read on source site](#)**Perth will become home to a new centre that will help convert remotely operated mining technology for space exploration....**

17 Feb 2020 7:06AM • ABC Radio Perth

Brief: SSTC • 60 words • Market: Australia • Item ID: X00082149903

Perth will become home to a new centre that will help convert remotely operated mining technology for space exploration. The Australian Report Operations for Space and Earth Centre will be funded by the private sector, universities and the WA Government. The facility will help develop autonomous and remote mining technology into space explorations,...

AUD 1,240 39,000

Also broadcast from: ABC Pilbara (Karratha), ABC Kimberley (Broome), Radio National (Perth), ABC Midwest and Wheatbelt (Geraldton), ABC Goldfields WA (Kalgoorlie) and 2 more

**Perth joins forces with NASA to launch world-class robotics space centre**

17 Feb 2020 7:05AM • 7news.com.au

Brief: SSTC • 393 words • Market: Australia • Item ID: DA0052756411

Perth may be one of the most isolated cities in the world but it is about to become a key player in the international space race, thanks to a new robotics centre developed in partnership with NASA. World-class technology will be adapted for remote operatio...

AUD 227,809

[Read on source site](#)


Perth joins forces with NASA to launch world-class robotics space centre


17 Feb 2020 7:05AM • 7news.com.au
Brief: SSTC • 419 words • Market: Australia • Item ID: 1235610935

Perth may be one of the most isolated cities in the world but it is about to become a key player in the international space race, thanks to a new robotics centre developed in partnership with NASA. World-class technology will be adapted for remote...

AUD 1,375

[Read on source site](#)

Robotics centre puts Perth in space race

17 Feb 2020 5:42AM • murrayvalleystandard.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052753997

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 14  21
[Read on source site](#)

Robotics centre puts Perth in space race

17 Feb 2020 5:42AM • Murray Valley Standard by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235557867

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)

Robotics centre puts Perth in space race

17 Feb 2020 5:31AM • thebull.com.au
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052753691

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 289  571
[Read on source site](#)

Robotics centre puts Perth in space race

17 Feb 2020 5:31AM • TheBull.com.au
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235607300

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)

Robots, not rockets: WA leans on resources tech for slice of space pie


17 Feb 2020 5:24AM • Sydney Morning Herald
Brief: SSTC • 607 words • Market: Australia • Item ID: 1235650428

Launching rockets is only a small part of a potentially trillion dollar space industry supply chain, with plenty of opportunities and jobs emerging away from the launch pad, WA Science, Innovation and ICT Minister Dave Kelly says. Since the federal...

AUD 2,171  371
[Read on source site](#)


Robots, not rockets: WA leans on resources tech for slice of space pie

17 Feb 2020 5:24AM • The Age
Brief: SSTC • 607 words • Market: Australia • Item ID: 1235654746

Launching rockets is only a small part of a potentially trillion dollar space industry supply chain, with plenty of opportunities and jobs emerging away from the launch pad, WA Science, Innovation and ICT Minister Dave Kelly says. Since the federal...

AUD 303  388

[Read on source site](#)


RT @DSC_WA: Great to be part of the launch of AROSE. Good to see Western Australia taking the lead. Congratulations to a...

17 Feb 2020 5:22AM • Twitter by Materials Australia
Followers: 783 • Following: 709 • Tweets: 1696 • Item ID: DS0134501385

RT @DSC_WA: Great to be part of the launch of AROSE. Good to see Western Australia taking the lead. Congratulations to all involved. @WoodsideEnergy @fugro @AusSpaceAgency @RioTinto @Nova_Systems @CurtinUni @uwanews #jtsi #wagov <https://t.co/wiAA4HICaI>

 783

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


Exciting to attend the launch of the Australian Remote Operations for Space & Earth (AROSE) Industry Forum in Perth ...

17 Feb 2020 5:17AM • Twitter by Gary Hale
Followers: 161 • Following: 118 • Tweets: 134 • Item ID: DS0134379427

Exciting to attend the launch of the Australian Remote Operations for Space & Earth (AROSE) Industry Forum in Perth @CurtinUni Well done to the founding partners #curtinuni #sstc #woodside #riotinto #asa #jtsi #novaerospace #fugro #uwa #wagov <https://t.co/i7t0CqsQy6>

 161

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


Perth will become home to a new centre that will help convert remotely operated mining technology for space exploration...

 17 Feb 2020 5:02AM • ABC Radio Perth
Brief: SSTC • 79 words • Market: Australia • Item ID: X00082152642

Perth will become home to a new centre that will help convert remotely operated mining technology for space exploration. The Australian Report Operations for Space and Earth Centre will be funded by the private sector, universities and the WA Government. The facility will help develop autonomous and remote mining technology for future exploration i...

AUD 485  2,000

Also broadcast from: ABC Pilbara (Karratha), ABC Kimberley (Broome), ABC Midwest and Wheatbelt (Geraldton), ABC Goldfields WA (Kalgoorlie), ABC South West WA (Bunbury) and 1 more


Perth confirmed for space hub

 17 Feb 2020 4:40AM • BN Western Australia by Matt McKenzie
Brief: SSTC • 311 words • Market: Australia • Item ID: 1235426028

An industry consortium has confirmed Perth will be the hub of a new remote operations centre dedicated to the space industry. Woodside, Nova Systems, Fugro, the University of Western Australia and Curtin University are behind the move to establish...

AUD 638

[Read on source site](#)



How NASA's moon mission could see 1500 jobs created, \$196 million invested in WA economy

17 Feb 2020 4:24AM • West Australian by Josh Zimmerman
Brief: SSTC • 395 words • Market: Australia • Item ID: 1235407714

Robots controlled from WA could help build outposts on the moon and Mars after Perth was selected as the headquarters for a national consortium that aims to find celestial uses for the State's autonomous mining expertise. And up to 1500 space industry...

AUD 30  53

[Read on source site](#)



Robotics centre puts Perth in space race

17 Feb 2020 4:12AM • blaynechronicle.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052751571

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)



Robotics centre puts Perth in space race

17 Feb 2020 4:12AM • victorharbortimes.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052751560

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 3  8

[Read on source site](#)



Robotics centre puts Perth in space race

17 Feb 2020 4:12AM • mailtimes.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052751585

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)



Robotics centre puts Perth in space race

17 Feb 2020 4:12AM • Victor Harbor Times by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235582234

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)



Robotics centre puts Perth in space race

17 Feb 2020 4:03AM • examiner.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052751305

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 218  275

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 3:52AM • tenterfieldstar.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052751045

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 13 15

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 3:50AM • Newcastle Star by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235578076

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 3:52AM • Tenterfield Star by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235609395

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)

**Robotics group primes WA for key role in NASA's Moon to Mars missions**

17 Feb 2020 3:31AM • The Age
Brief: SSTC • 350 words • Market: Australia • Item ID: 1235236491

Resources and robotics companies have joined forces to create a world-leading remote operations group which could see WA play a key role in NASA's future Moon to Mars missions. Science, Innovation and ICT Minister Dave Kelly on Monday announced the...

AUD 178 388

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**Robotics centre puts Perth in space race**

17 Feb 2020 3:50AM • newcastlestar.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052750991

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 2 7

[Read on source site](#)


Robotics group primes WA for key role in NASA's Moon to Mars missions


17 Feb 2020 3:31AM • Sydney Morning Herald
Brief: SSTC • 350 words • Market: Australia • Item ID: 1235221262

Resources and robotics companies have joined forces to create a world-leading remote operations group, which could see WA play a key role in NASA's future Moon to Mars missions. Science, Innovation and ICT Minister Dave Kelly on Monday announced the...

AUD 1,276  371

[Read on source site](#)


Robotics centre puts Perth in space race

17 Feb 2020 3:19AM • jimboombatimes.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052750083

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 13  11

[Read on source site](#)


Robots, not rockets: WA leans on resources tech for slice of space pie


17 Feb 2020 3:24AM • Brisbane Times
Brief: SSTC • 607 words • Market: Australia • Item ID: 1235667984

Launching rockets is only a small part of a potentially trillion dollar space industry supply chain, with plenty of opportunities and jobs emerging away from the launch pad, WA Science, Innovation and ICT Minister Dave Kelly says. Since the federal...

AUD 94  28

[Read on source site](#)


Robotics centre puts Perth in space race


17 Feb 2020 3:19AM • jimboombatimes.com.au by Patrick James
Brief: SSTC • 405 words • Market: Australia • Item ID: 1235573805

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

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Robotics centre puts Perth in space race

17 Feb 2020 3:22AM • inverelltimes.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052750164

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 1  3

[Read on source site](#)


Robotics centre puts Perth in space race

17 Feb 2020 3:15AM • kiamaindependent.com.au by Patrick James
Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052749937

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 1  3

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**Robotics centre puts Perth in space race**

17 Feb 2020 3:15AM • Kiama Independent by Patrick James
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235570863

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 3:07AM • thecourier.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: DA0052749717

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 340 408

[Read on source site](#)**Play Video**

17 Feb 2020 3:14AM • perthnow.com.au by Patrick James
Brief: SSTC • 161 words • Market: Australia • Item ID: DA0052749907

Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create an estimated 1500 jobs and boost the economy by \$196 ...

AUD 6,009 7,113

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:59AM • braidwoodtimes.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052749438

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 3:07AM • araratadvertiser.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052749731

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:59AM • Braidwood Times by Patrick James
Brief: SSTC • 405 words • Market: Australia • Item ID: 1235601588

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:57AM • portstephensexaminer.com.au by Patrick James
Brief: SSTC • 194 words • Market: Australia • Item ID: DA0052762178

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 4  12

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:56AM • Fairfield Champion by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235556385

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:56AM • fairfieldchampion.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052749361

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:56AM • Augusta Margaret River Mail by Patrick James
Brief: SSTC • 402 words • Market: Australia • Item ID: 1235589806

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,177

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:56AM • margaretrivermail.com.au by Patrick James
Brief: SSTC • 387 words • Market: Australia • Item ID: DA0052749353

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 195,003

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:51AM • goulburnpost.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052749180

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 19  29

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:50AM • whyallanewsonline.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052749154

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 191  36

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:50AM • Whyalla News by Patrick James
Brief: SSTC • 405 words • Market: Australia • Item ID: 1235600178

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:50AM • queanbeyanagechronicle.com.au by Patrick James
Brief: SSTC • 213 words • Market: Australia • Item ID: DA0052749156

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operati...

AUD 131,605

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:49AM • maitlandmercury.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052749178

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 8  21

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:50AM • The Queanbeyan Age by Patrick James
Brief: SSTC • 225 words • Market: Australia • Item ID: 1235579832

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote...

AUD 803

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:46AM • nvi.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052749090

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 1  3

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:45AM • singletonargus.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052749052

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 58  41

[Read on source site](#)

**Robotics group primes WA for key role in NASA's Moon to Mars missions**

17 Feb 2020 2:44AM • news.google.com by HAMISH HASTIE
Brief: SSTC • 333 words • Market: Australia • Item ID: 1235607072

Resources and robotics companies have joined forces to create a world-leading remote operations group which could see WA play a key role in NASA's future Moon to Mars missions. Science, Innovation and ICT Minister Dave Kelly on Monday announced the...

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:45AM • Singleton Argus by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235503605

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:43AM • cessnockadvertiser.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748999

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 6  11

[Read on source site](#)

**Robotics group primes WA for key role in NASA's Moon to Mars missions**

17 Feb 2020 2:44AM • news.google.com by HAMISH HASTIE
Brief: SSTC • 314 words • Market: Australia • Item ID: DA0052749022

Resources and robotics companies have joined forces to create a world-leading remote operations group which could see WA play a key role in NASA's future Moon to Mars missions. Science, Innovation and ICT Minister Dave Kelly on Monday announced the Austral...

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:43AM • Cessnock Advertiser by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235587016

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:42AM • northerndailyleader.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748971

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 51  81

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:41AM • coastalleader.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748886

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:42AM • camdenadvertiser.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748908

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:41AM • wollondillyadvertiser.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748884

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:42AM • Camden Advertiser by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235546641

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:41AM • theleader.com.au by Patrick James
Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052748879

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 29  75

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:41AM • Wollondilly Advertiser by Patrick James
 Brief: SSTC • 208 words • Market: Australia • Item ID: 1235553808

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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17 Feb 2020 2:40AM • lithgowmercury.com.au by Patrick James
 Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748885

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 9 14

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:41AM • Coastal Leader by Patrick James
 Brief: SSTC • 208 words • Market: Australia • Item ID: 1235583350

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:40AM • beaudeserttimes.com.au by Patrick James
 Brief: SSTC • 192 words • Market: Australia • Item ID: DA0052748871

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 2 8

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:41AM • St George & Sutherland Shire Leader by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235565210

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:40AM • colliemail.com.au by Patrick James
 Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748872

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 1 3

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:40AM • beaudeserttimes.com.au by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235597739

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:38AM • Forbes Advocate by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235577475

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

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17 Feb 2020 2:40AM • Collie Mail by Patrick James
 Brief: SSTC • 405 words • Market: Australia • Item ID: 1235605849

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:37AM • narrominenewsonline.com.au by Patrick James
 Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748802

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:38AM • forbesadvocate.com.au by Patrick James
 Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052748776

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 1 3

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:37AM • Narromine News by Patrick James
 Brief: SSTC • 405 words • Market: Australia • Item ID: 1235598145

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:36AM • macarthuradvertiser.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748734

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 2 7

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:36AM • Macarthur Advertiser by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235553064

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:36AM • canowindranews.com.au by Patrick James
Brief: SSTC • 387 words • Market: Australia • Item ID: DA0052748793

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 195,003

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:34AM • manningrivertimes.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748682

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 23 20

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:36AM • Canowindra News by Patrick James
Brief: SSTC • 402 words • Market: Australia • Item ID: 1235578648

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,177

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:34AM • westernadvocate.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748669

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 32 48

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:33AM • redlandcitybulletin.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748666

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 6 18

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:33AM • redlandcitybulletin.com.au by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235563723

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:33AM • advertiserlaketimes.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748613

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:32AM • moreechampion.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: DA0052749137

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 1 4

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:33AM • advertiserlaketimes.com.au by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235525871

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:32AM • liverpoolchampion.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748665

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 2 6

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:32AM • Liverpool Champion by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235497182

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:31AM • edenmagnet.com.au by Patrick James
Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052748618

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 1 3

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:32AM • Moree Champion by Patrick James
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235599529

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:31AM • Eden Magnet by Patrick James
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235497111

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:31AM • esperanceexpress.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748579

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 3 6

[Read on source site](#)**Robotics group primes WA for key role in NASA's Moon to Mars missions**

17 Feb 2020 2:31AM • WA Today by HAMISH HASTIE
Brief: SSTC • 350 words • Market: Australia • Item ID: 1235230592

Resources and robotics companies have joined forces to create a world-leading remote operations group which could see WA play a key role in NASA's future Moon to Mars missions. Science, Innovation and ICT Minister Dave Kelly on Monday announced the...

AUD 1,046

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:31AM • Esperance Express by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235587270

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:29AM • boorowanewsonline.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748497

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:30AM • bendigoadvertiser.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748527

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 446 359

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:29AM • parkeschampionpost.com.au by Patrick James
Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052748494

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 108,635

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:29AM • crookwellgazette.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748500

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:29AM • Parkes Champion-Post by Patrick James
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235557002

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:27AM • townandcountrymagazine.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748473

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:27AM • camdencourier.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748442

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:27AM • portnews.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748517

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:27AM • Town & Country Magazine by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235610496

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:27AM • standard.net.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748431

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 31 64

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:26AM • wellingtontimes.com.au by Patrick James
Brief: SSTC • 385 words • Market: Australia • Item ID: DA0052748428

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 1 3

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:26AM • Wellington Times by Patrick James
Brief: SSTC • 400 words • Market: Australia • Item ID: 1235596213

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,139

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • riverinaleader.com.au by Patrick James
Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052748395

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 108,635

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:25AM • avonadvocate.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748390

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 28  18[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • bellingencourier.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748378

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:25AM • Avon Valley Advocate by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235584894

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • glenninesexaminer.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748383

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • cowraguardian.com.au by Patrick James
Brief: SSTC • 387 words • Market: Australia • Item ID: DA0052748359

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 34  18

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • Riverina Leader by Patrick James
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235496135

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • Bellingen Courier Sun by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235496130

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • Cowra Guardian by Patrick James
Brief: SSTC • 402 words • Market: Australia • Item ID: 1235610452

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:24AM • Glen Innes Examiner by Patrick James
Brief: SSTC • 405 words • Market: Australia • Item ID: 1235496132

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:23AM • theflindersnews.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: DA0052753956

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 109,067

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:23AM • portpirierecorder.com.au by Patrick James
 Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748322

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:23AM • West Coast Sentinel by Patrick James
 Brief: SSTC • 208 words • Market: Australia • Item ID: 1235601778

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remot...

AUD 728

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17 Feb 2020 2:23AM • theislanderonline.com.au by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: DA0052748333

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 114,634

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:23AM • Flinders News by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235594477

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:23AM • westcoastsentinel.com.au by Patrick James
 Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748334

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 7 9

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:23AM • Kingscote Islander by Patrick James
 Brief: SSTC • 196 words • Market: Australia • Item ID: 1235522329

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:21AM • centralwesterndaily.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748248

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 36  56

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:17AM • gloucesteradvocate.com.au by Patrick James
Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748178

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

 1

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:18AM • hawkesburygazette.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748170

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 15  18

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:17AM • Gloucester Advocate by Patrick James
Brief: SSTC • 208 words • Market: Australia • Item ID: 1235574213

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:18AM • Hawkesbury Gazette by Patrick James
Brief: SSTC • 405 words • Market: Australia • Item ID: 1235601116

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:15AM • barossaerald.com.au by Patrick James
Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052748154

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 2  4

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:15AM • busseltonmail.com.au by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: DA0052748077

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing t...

AUD 3  8

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:14AM • greatlakesadvocate.com.au by Patrick James
 Brief: SSTC • 400 words • Market: Australia • Item ID: DA0052748078

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 19  17

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:15AM • Busselton Mail by Patrick James
 Brief: SSTC • 196 words • Market: Australia • Item ID: 1235563197

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 699

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:14AM • hepburnadvocate.com.au by Patrick James
 Brief: SSTC • 387 words • Market: Australia • Item ID: DA0052748054

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 195,003

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:15AM • Barossa & Light Herald by Patrick James
 Brief: SSTC • 405 words • Market: Australia • Item ID: 1235562630

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,190

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:14AM • bluemountainsgazette.com.au by Patrick James
 Brief: SSTC • 399 words • Market: Australia • Item ID: DA0052748056

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 12  20

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:14AM • begadistrictnews.com.au by Patrick James
 Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052748059

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 18 25

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:11AM • therural.com.au by Patrick James
 Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052747975

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 119,012

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:14AM • The Advocate (Hepburn) by Patrick James
 Brief: SSTC • 402 words • Market: Australia • Item ID: 1235550673

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,177

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:11AM • The Rural by Patrick James
 Brief: SSTC • 208 words • Market: Australia • Item ID: 1235600436

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 728

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:14AM • Blue Mountains Gazette by Patrick James
 Brief: SSTC • 404 words • Market: Australia • Item ID: 1235593792

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 1,209

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:11AM • Newcastle Herald by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217541

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:09AM • theherald.com.au by Patrick James
 Brief: SSTC • 197 words • Market: Australia • Item ID: DA0052747895

A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Opera...

AUD 31 26

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:06AM • thesenior.com.au by Patrick James
 Brief: SSTC • 184 words • Market: Australia • Item ID: DA0052747788

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 108,635

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:08AM • macleayargus.com.au by Patrick James
 Brief: SSTC • 390 words • Market: Australia • Item ID: DA0052747881

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 197,219

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:06AM • The Senior by Patrick James
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235579975

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership,...

AUD 667

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:08AM • gsherald.com.au by Patrick James
 Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747898

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:05AM • albanyadvertiser.com.au by Patrick James
 Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747756

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 2:05AM • northwesttelegraph.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747761

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:00AM • soundtelegraph.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747583

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:05AM • albanyadvertiser.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235520294

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:00AM • midwesttimes.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747692

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:03AM • bdtimes.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747721

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 2:00AM • narroginobserver.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235583036

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

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**Robotics centre puts Perth in space race**

17 Feb 2020 2:00AM • soundtelegraph.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235551350

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:58AM • geraldtonguardian.com.au by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235571231

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:59AM • amrtimes.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747561

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:57AM • swtimes.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747545

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:58AM • geraldtonguardian.com.au by Patrick James
Brief: SSTC • 182 words • Market: Australia • Item ID: DA0052747544

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing te...

AUD 102,149

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:57AM • South Western Times by Patrick James
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235557974

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • The Courier Mail by Patrick James



Brief: SSTC • 235 words • Market: Australia • Item ID: 1235183963

National Breaking News Robotics centre puts Perth in space race A Perth-based space robotics centre will adapt world-class technology for space missions and enable WA bids for projects like NASA's Lunar Gateway program. World-class technology will be...

AUD 30 104

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Northern Territory News by Patrick James



Brief: SSTC • 201 words • Market: Australia • Item ID: 1235245532

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 8 46

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Herald Sun by Patrick James



Brief: SSTC • 228 words • Market: Australia • Item ID: 1235186436

National Breaking News A Perth-based space robotics centre will adapt world-class technology for space missions and enable WA bids for projects like NASA's Lunar Gateway program. World-class technology will be adapted for remote operations on the moon...

AUD 215 458

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Perth Now



Brief: SSTC • 193 words • Market: Australia • Item ID: 1235217464

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 292 196

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Gold Coast Bulletin by Patrick James



Brief: SSTC • 201 words • Market: Australia • Item ID: 1235183605

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 16 57

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Adelaide Now by Patrick James



Brief: SSTC • 235 words • Market: Australia • Item ID: 1235183837

National Breaking News Robotics centre puts Perth in space race A Perth-based space robotics centre will adapt world-class technology for space missions and enable WA bids for projects like NASA's Lunar Gateway program. World-class technology will be...

AUD 88 233

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Townsville Bulletin by Patrick James
 Brief: SSTC • 201 words • Market: Australia • Item ID: 1235183552



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 679

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Geelong Advertiser by Patrick James
 Brief: SSTC • 201 words • Market: Australia • Item ID: 1235183698



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 679

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Weekly Times Now by Patrick James
 Brief: SSTC • 235 words • Market: Australia • Item ID: 1235183652

National Breaking News Robotics centre puts Perth in space race A Perth-based space robotics centre will adapt world-class technology for space missions and enable WA bids for projects like NASA's Lunar Gateway program. World-class technology will be...

AUD 3  26[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • The Australian by Patrick James
 Brief: SSTC • 192 words • Market: Australia • Item ID: 1235183533

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 284  419[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • The Mercury by Patrick James
 Brief: SSTC • 201 words • Market: Australia • Item ID: 1235183558



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 6  33[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Cairns Post by Patrick James
 Brief: SSTC • 201 words • Market: Australia • Item ID: 1235183560



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 17  73[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 1:52AM • Daily Telegraph Australia by Patrick James
Brief: SSTC • 201 words • Market: Australia • Item ID: 1235184102

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 262 567

[Read on source site](#)

**New space agency to be built in Perth**

17 Feb 2020 1:36AM • Communitynews.com.au
Brief: SSTC • 245 words • Market: Australia • Item ID: 1235517358

A NATIONAL space robotics entity is set to begin operations in Perth, creating an estimated 1500 jobs. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in th...

AUD 760

[Read on source site](#)

**National space entity chooses Perth**

17 Feb 2020 1:38AM • NEWS.com.au by Patrick James
Brief: SSTC • 83 words • Market: Australia • Item ID: 1235555462

A national robotics entity has chosen Perth to begin its operations developing technologies to assist in the international space race, creating some 1500 jobs. A national space robotics entity is set to begin operations in Perth, creating an estimated...

AUD 3,439 10,387

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**National space entity chooses Perth**

17 Feb 2020 1:35AM • TheBull.com.au
Brief: SSTC • 59 words • Market: Australia • Item ID: 1235591026

A national space robotics entity is set to begin operations in Perth, creating an estimated 1500 jobs. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the...

AUD 218

[Read on source site](#)

**New space agency to be built in Perth**

17 Feb 2020 1:36AM • communitynews.com.au
Brief: SSTC • 234 words • Market: Australia • Item ID: DA0052747034

A NATIONAL space robotics entity is set to begin operations in Perth, creating an estimated 1500 jobs. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the int...

AUD 450 1,228

[Read on source site](#)

**National space entity chooses Perth**

17 Feb 2020 1:34AM • Northern Territory News by Patrick James
Brief: SSTC • 66 words • Market: Australia • Item ID: 1235183159

A national space robotics entity is set to begin operations in Perth, creating an estimated 1500 jobs. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the...

AUD 3 46

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**National space entity chooses Perth**

17 Feb 2020 1:34AM • The Courier Mail by Patrick James
 Brief: SSTC • 98 words • Market: Australia • Item ID: 1235183517



National Breaking News National space entity chooses Perth A national robotics entity has chosen Perth to begin its operations developing technologies to assist in the international space race, creating some 1500 jobs. A national space robotics entity...

AUD 15 104

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Mudgee Guardian
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217538

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

[Read on source site](#)

**Robotics group primes WA for key role in NASA's Moon to Mars missions**

17 Feb 2020 1:31AM • Brisbane Times
 Brief: SSTC • 350 words • Market: Australia • Item ID: 1235259274



Resources and robotics companies have joined forces to create a world-leading remote operations group which could see WA play a key role in NASA's future Moon to Mars missions. Science, Innovation and ICT Minister Dave Kelly on Monday announced the...

AUD 55 28

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Central Western Daily
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217695

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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**National space entity chooses Perth**

17 Feb 2020 1:24AM • Yahoo! News Australia by Patrick James
 Brief: SSTC • 59 words • Market: Australia • Item ID: 1235515745



A national space robotics entity is set to begin operations in Perth, creating an estimated 1500 jobs. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in th...

AUD 218

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Canberra Times by Patrick James
 Brief: SSTC • 209 words • Market: Australia • Item ID: 1235217072



A space research entity has chosen Perth for its operations helping the Australia-NASA partnership. World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote...

AUD 64 113

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Bathurst Western Advocate
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238575

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Northern Daily Leader
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238587

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Tasmanian Examiner
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235239125

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Namoi Valley Independent
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217591

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Manning River Times
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259601

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Daily Liberal
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235281609

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • The Stawell Times-News
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235303906

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Leeton Irrigator
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235236493

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • The North West Star
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238883

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Eastern Riverina Chronicle
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235237898

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Wimmera Mail Times
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238506

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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AUD 667

**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Coly Point Observer
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235348499

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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AUD 667

**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Macleay Argus
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217499

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Ballarat Courier
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259659

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Warrnambool Standard
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259762

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • The Advocate (Burnie)
 Brief: SSTC • 194 words • Market: Australia • Item ID: 1235281433

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • The Armidale Express
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235237456

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Milton Ulladulla Times
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235326633

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Bega District News
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235245529

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Lithgow Mercury
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259443

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • South Coast Register
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235244883

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Cootamundra Herald
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235258305

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Port Macquarie News
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235327824

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • The Ararat Advertiser
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238075

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Wagga Wagga Daily Advertiser
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235258455

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • The Border Mail
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238092

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Goulburn Post
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217427

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Inverell Times
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259384

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Bendigo Advertiser
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259509

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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17 Feb 2020 1:11AM • Harden Express
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235236489

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

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**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • The Area News

Brief: SSTC • 194 words • Market: Australia • Item ID: 1235238017

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

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17 Feb 2020 1:11AM • Maitland Mercury

Brief: SSTC • 194 words • Market: Australia • Item ID: 1235244948

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Illawarra Mercury

Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217582

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Southern Highland News

Brief: SSTC • 194 words • Market: Australia • Item ID: 1235217442

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Batemans Bay Post

Brief: SSTC • 194 words • Market: Australia • Item ID: 1235279591

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Great Lakes Advocate

Brief: SSTC • 194 words • Market: Australia • Item ID: 1235237524

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)

**Robotics centre puts Perth in space race**

17 Feb 2020 1:11AM • Southern Cross
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235279541

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)**McGowan Government rockets State into new generation space race to create 1,500 WA jobs**

17 Feb 2020 12:43AM • wa.gov.au
Brief: SSTC • 449 words • Market: Australia • Item ID: DA0052745789

McGowan Government secures Perth as headquarters for 'AROSE', a national consortium to translate locally developed remote and robotic technologies into space exploration PwC estimates that AROSE could inject about \$200 million per year into local economy ...

AUD 223,810

[Read on source site](#)**McGowan Government rockets State into new generation space race to create 1,500 WA jobs**

17 Feb 2020 12:45AM • nationaltribune.com.au
Brief: SSTC • 448 words • Market: Australia • Item ID: DA0052745800

McGowan Government secures Perth as headquarters for 'AROSE', a national consortium to translate locally developed remote and robotic technologies into space exploration PwC estimates that AROSE could inject about \$200 million per year into local economy ...

AUD 233,268

[Read on source site](#)**McGowan Government rockets State into new generation space race to create 1,500 WA jobs**

17 Feb 2020 12:41AM • miragenews.com by Mirage News
Brief: SSTC • 468 words • Market: Australia • Item ID: DA0052745778

McGowan Government secures Perth as headquarters for 'AROSE', a national consortium to translate locally developed remote and robotic technologies into space exploration PwC estimates that AROSE could inject about \$200 million per year into local economy ...

AUD 246,564

[Read on source site](#)**McGowan Government rockets State into new generation space race to create 1,500 WA jobs**

17 Feb 2020 12:45AM • nationaltribune.com.au
Brief: SSTC • 472 words • Market: Australia • Item ID: 1235587152

McGowan Government secures Perth as headquarters for 'AROSE', a national consortium to translate locally developed remote and robotic technologies into space exploration PwC estimates that AROSE could inject about \$200 million per year into local...

[Read on source site](#)



McGowan Government rockets State into new generation space race to create 1,500 WA jobs



17 Feb 2020 12:41AM • miragenews.com by Mirage News
Brief: SSTC • 477 words • Market: Australia • Item ID: 1235547387

McGowan Government secures Perth as headquarters for 'AROSE', a national consortium to translate locally developed remote and robotic technologies into space exploration PwC estimates that AROSE could inject about \$200 million per year into local...

AUD 1,477

[Read on source site](#)


Shooting for the stars in a smart WA



17 Feb 2020 12:36AM • BN Western Australia by Matt McKenzie
Brief: SSTC • 1741 words • Market: Australia • Item ID: 1235928284

Ambitious entrepreneurs and sensible policies could make WA the world's pre-eminent location for data analytics, remote operations and high-tech industries. Matt Lamont has created a successful business analysing data from deep beneath the sea, but now...

AUD 3,518

[Read on source site](#)


Tech takes on hospitality



17 Feb 2020 12:00AM • Business News
Brief: SSTC • 852 words • Market: Australia • Item ID: 1235375312

A handful of Perth startups have stepped into the hospitality realm to improve the services and operations of the city's venues. FOR all the advances and disruptive opportunities available via everyday tech such as smartphones, Pubster founder Adam Mastey still sees opportunities in the hospitality sector.

AUD 11,705  7,304[View original](#)


Robotics centre puts Perth in space race

16 Feb 2020 11:41PM • Katherine Times
Brief: SSTC • 194 words • Market: Australia • Item ID: 1235259393

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 667

[Read on source site](#)


Robotics centre puts Perth in space race



16 Feb 2020 4:00PM • corowafreepress.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235217136

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)


Robotics centre puts Perth in space race



16 Feb 2020 4:00PM • benallaensign.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235217128

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)

**Robotics centre puts Perth in space race**

16 Feb 2020 4:00PM • campaspenews.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235217316



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

16 Feb 2020 4:00PM • riverineherald.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235217300



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

16 Feb 2020 4:00PM • corowafreepress.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235238732



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

16 Feb 2020 4:00PM • kyfreepress.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235217448



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**Robotics centre puts Perth in space race**

16 Feb 2020 4:00PM • taturaguardian.com.au by AAP NewsWire
Brief: SSTC • 192 words • Market: Australia • Item ID: 1235238486



World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth. Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developin...

AUD 629

[Read on source site](#)**The world's oldest asteroid impact**

14 Feb 2020 12:00AM • Int Press - USA
Brief: SSTC • 237 words • Market: Australia • Item ID: 1234015551

Researchers say they have identified the world's oldest asteroid crater: a 43-milewide scar in Western Australia's outback that was created more than 2 billion years ago. This massive impact may have brought an end to the ice age known as Snowball Earth, when most of the world was covered with ice sheets up to 3 miles thick. The Yarrabubba impact s...

[View original](#)

**Perth team selected for global NASA Finals**

13 Feb 2020 11:30PM • startupnews.com.au

Brief: SSTC • 438 words • Market: Australia • Item ID: 1234632907

A Perth team from Scitech has been selected as one of five teams globally to receive an honourable mention in NASA's global Space Apps challenge. Last October, more than 29,000 participants were involved in the annual NASA Space Apps challenge, held...

AUD 1,259

[Read on source site](#)**Residents recall meteor moments**

13 Feb 2020 4:27PM • West Australian by thewest.com.au editor

Brief: SSTC • 219 words • Market: Australia • Item ID: 1234446504

Houses shook and night turned to day as a meteor hurtled across the Great Southern sky last week. The Advertiser received a flurry of reports of a flash in the sky followed by what sounded like an explosion just before midnight on Friday. "It sounded..."

AUD 20 53

[Read on source site](#)**Collins discusses the mystery of the giant explosion seen and heard has been solved by Curtin University's Desert Fireba...**

10 Feb 2020 4:52PM • ABC Pilbara by Andrew Collins

Brief: SSTC • 29 words • Market: Australia • Item ID: X00082074425

Collins discusses the mystery of the giant explosion seen and heard has been solved by Curtin University's Desert Fireball Network Dr Martin Towner, noting that it was a meteorite.

AUD 5,729 14,000

Also broadcast from: ABC Great Southern WA (Wagin), ABC Kimberley (Broome), ABC Radio Perth (Perth), ABC Midwest and Wheatbelt (Geraldton), ABC Goldfields WA (Kalgoorlie) and 3 more

**Interview with Dr Martin Towner, Curtin University. Towner says [the mystery sighting in the Great Southern] is a meteor...**

10 Feb 2020 9:38AM • ABC Radio Perth by Russell Woolf and Nadia Mitsopoulos

Brief: SSTC • 93 words • Market: Australia • Item ID: X00082062138

Interview with Dr Martin Towner, Curtin University. Towner says [the mystery sighting in the Great Southern] is a meteorite hitting the top of the atmosphere. He states they have a general area [that they predict it will fall] somewhere in the north of Albany and Stirling Ranges but since most of the south-west are cloudy that time they didn't actu...

AUD 1,331 18,000

**Ledakan Asteroid Besar Picu Pertumbuhan Bakteri**

04 Feb 2020 9:51AM • skanaa.com

Brief: SSTC • 292 words • Market: Australia • Item ID: DA0052329572

JAKARTA - - Sebuah penelitian yang diterbitkan pada Oktober 2019 menyebut asteroid yang menghantam Bumi di Semenanjung Yucatan di Meksiko pada 65 juta tahun lalu membuat dinosaurus punah. Ledakan asteroid itu juga menyebabkan hampir 75 persen dari semua s...

[Read on source site](#)**Ledakan Asteroid Besar Picu Pertumbuhan Bakteri**

04 Feb 2020 9:43AM • republik.co.id by Rahma Sulistya, Dwi Murdaningsih

Brief: SSTC • 311 words • Market: Australia • Item ID: DA0052329383

Foto: EPA Menurut studi, ledakan asteroid memusnahkan dinosaurus.REPUBLIKA.CO.ID, JAKARTA - - Sebuah penelitian yang diterbitkan pada Oktober 2019 menyebut asteroid yang menghantam Bumi di Semenanjung Yucatan di Meksiko pada 65 juta tahun lalu membuat dun...

[Read on source site](#)



Amazing: Scientists Found The Planet's Oldest Asteroid Strike In Australia

02 Feb 2020 4:52PM • nationalinterest.org
Brief: SSTC • 924 words • Market: Australia • Item ID: DA0052264073

The world's oldest remaining asteroid crater is at a place called Yarrabubba, southeast of the town of Meekatharra in Western Australia. Our new study puts a precise age on the cataclysmic impact – showing Yarrabubba is the oldest known crater and dating i...

[Read on source site](#)



World's New Oldest Asteroid Site

30 Jan 2020 6:28AM • RTR FM by Fiona Bartholomaeus
Brief: SSTC • 113 words • Market: Australia • Item ID: 1229401243

A year after having previously helped solve an ancient mystery regarding Egyptian glass, Curtin University Space Science and Technology Centre researcher Dr Aaron Cavosie has made another 'meteoric' discovery, specifically determining the age of what is...

AUD 322

[Read on source site](#)



GRAVITATION Lense-Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar system

31 Jan 2020 12:00AM • Int Press - USA
Brief: SSTC • 3882 words • Market: Australia • Item ID: 1236258809

V. Venkatraman Krishnan1-2*, M. Bailes1-3. W. van Straten*. N. Wex2, P. C. C. Freire2. E. F. Keane". T. M. Tauris6", P. A. Rosado11, N. D. R. Bhat8. C. Flynn1, A. Jameson1, S. Ostowski1 Radio pulsars in short-period eccentric binary orbits can be used to study both gravitational dynamics and binary evolution. The binary system containing PSR J1141-...

[View original](#)



Interview with Curtin University Senior Research Fellow Dr Aaron Cavosie. Gibbs says the Yarrabubba Crater was discovered...

26 Jan 2020 12:06PM • ABC Radio Perth by Andrea Gibbs
Brief: SSTC • 186 words • Market: Australia • Item ID: X00081907181

Interview with Curtin University Senior Research Fellow Dr Aaron Cavosie. Gibbs says the Yarrabubba Crater was discovered some time ago and WA scientists have been working hard to unlock its secrets. She mentions a report on findings has been published this week. Cavosie describes the crater, saying it is located in outback WA in a barren landscape...

AUD 2,335  8,000



World's New Oldest Asteroid Site

30 Jan 2020 6:28AM • rtrfm.com.au by Fiona Bartholomaeus
Brief: SSTC • 107 words • Market: Australia • Item ID: DA0052156244

A year after having previously helped solve an ancient mystery regarding Egyptian glass, Curtin University Space Science and Technology Centre researcher Dr Aaron Cavosie has made another 'meteoric' discovery, specifically determining the age of what is no...

AUD 50,096

[Read on source site](#)

 **Researchers trace oldest asteroid impact to site in Australia**

26 Jan 2020 12:00AM • Int Press - USA
Brief: SSTC • 639 words • Market: Australia • Item ID: 1229112003

By Katherine Kornei New York Times Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the oldest? Researchers reported Tuesday in Nature Communications...

[View original](#)

 **Earth's oldest asteroid impact found in Australia**

24 Jan 2020 1:59AM • New Zealand Herald by New York Times By: Katherine Kornei
Share via email 
Brief: SSTC • 650 words • Market: Australia • Item ID: 1227101152

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters.

AUD 294  576

[Read on source site](#)

 **Oldest known asteroid impact may have played role in ending ancient ice age**

24 Jan 2020 2:39PM • astronomynow.com
Brief: SSTC • 448 words • Market: Australia • Item ID: DA0052006532

Outcrops in Western Australia mark the remains of the world's oldest known impact crater, a heavily eroded structure known as Yarrabubba. Image: NASA Isotopic analysis of minerals at the base of a heavily-eroded 70-kilometre-wide crater in Western Australia...

AUD 800,191

[Read on source site](#)

 **Did an Australian asteroid impact end the Earth's big thaw?**

23 Jan 2020 9:50PM • openforum.com.au
Brief: SSTC • 486 words • Market: Australia • Item ID: DA0051986586

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading journal N...

AUD 231,696

[Read on source site](#)

 **Earth's oldest asteroid impact found in Australia**

24 Jan 2020 1:59AM • nzherald.co.nz by New York Times By: Katherine Kornei Share via email Share on Facebook Share on Twitter Show more Bookmark this article Share on Facebook facebook Share on Twitter twitter Share via email email Share on LinkedIn linkedin Share on Google Plus google-plus Sh
Brief: SSTC • 636 words • Market: Australia • Item ID: DA0051991226

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the ol...

[Read on source site](#)

 **Did an Australian asteroid impact end the Earth's big thaw?**

23 Jan 2020 9:50PM • openforum.com.au
Brief: SSTC • 503 words • Market: Australia • Item ID: 1227028221

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading...

AUD 1,408

[Read on source site](#)

 **A mysterious light show has stunned those who were lucky enough to see it flash pass first Perth overnight. It comes day...**

 23 Jan 2020 6:32PM • Channel 7 by Rick Ardon and Susannah Carr
Brief: SSTC • 49 words • Market: Australia • Item ID: X00081855785

A mysterious light show has stunned those who were lucky enough to see it flash pass first Perth overnight. It comes days after Curtin University scientists confirmed WA is home to the world's oldest meteorite strike. The scientists discovered something special about the Yarrabubba crater in the WA outback.

AUD 13,120  150,000

 **Earth's oldest known impact crater provides ancient climate clues for scientists**

23 Jan 2020 5:29PM • mic.com by BRITTANY VINCENT
Brief: SSTC • 492 words • Market: Australia • Item ID: DA0051981181

Like the moon, Earth has plenty of craters – they just aren't as prominent since there's all that greenery and water around. They're important, though, because of what they can tell us about the history of our world. Case in point: Yarrabubba Crater, a 43...

[Read on source site](#)

 **Australia's Yarrabubba Asteroid Impact Crater Is Oldest on Earth**

23 Jan 2020 1:03PM • gkmen.com by Kristine Garrett
Brief: SSTC • 479 words • Market: Australia • Item ID: DA0051972387

When we gaze out into our solar system and observe its several planets and many moons, one thing tends to be true of just about all of them: They have lots and lots of impact craters. About 2.2 billion years ago, a massive meteorite left a crater there 43 ...

[Read on source site](#)

 **NASA scientist found 2 billion-year-old Australian meteor crater**

23 Jan 2020 12:01PM • dailyhunt.in
Brief: SSTC • 300 words • Market: Australia • Item ID: DA0051970442

WASHINGTON: Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. 'It's 200 million years older than the previously oldest known crater,...

[Read on source site](#)

 **2.229 Billion Year Old Yarrabubba Crater is Oldest Known Crater**

23 Jan 2020 11:58AM • thesiliconreview.com
Brief: SSTC • 273 words • Market: Australia • Item ID: DA0051970353

Analysis of the Yarrabubba meteor crater's age in Australia has revealed it to be 2.229 billion years old, making it the oldest known crater currently according to the NASA scientist who led the research on the crater. "It's 200 million years older than th...

[Read on source site](#)

 **NASA scientist found 2 billion-year-old Australian meteor crater**

23 Jan 2020 11:48AM • sentinelassam.com
Brief: SSTC • 363 words • Market: Australia • Item ID: DA0051970061

WASHINGTON: Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest known crater,...

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

23 Jan 2020 10:19AM • uk.news.yahoo.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051967695

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists. A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 2,077  1,064[Read on source site](#) **New Research Finds Earth's Oldest Asteroid Strike Linked to 'Big Thaw'**

23 Jan 2020 9:57AM • AZoCleantech

Brief: SSTC • 526 words • Market: Australia • Item ID: 1226752366

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading...

AUD 1,463

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

23 Jan 2020 10:19AM • Yahoo! UK & Ireland

Brief: SSTC • 378 words • Market: Australia • Item ID: 1226760785

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists. A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago...

[Read on source site](#) **We found the world's oldest asteroid strike, and it might have ended an ice age**

23 Jan 2020 9:54AM • siliconrepublic.com by Marcos Silva

Brief: SSTC • 928 words • Market: Australia • Item ID: DA0051967498

Researchers from Curtin University and Imperial College London describe the discovery of the oldest known asteroid crater in the world. The world's oldest remaining asteroid crater is at a place called Yarrabubba, southeast of the town of Meekatharra in We...

AUD 620  266[Read on source site](#) **New Research Finds Earth's Oldest Asteroid Strike Linked to 'Big Thaw'**

23 Jan 2020 9:57AM • azocleantech.com

Brief: SSTC • 506 words • Market: Australia • Item ID: DA0051967055

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading journal N...

[Read on source site](#)



2.2 Billion Year Old Australian Crater is the Oldest Known And Can Reveal the Planets History

23 Jan 2020 9:28AM • indianmirror.com

Brief: SSTC • 414 words • Market: Australia • Item ID: DA0051966354

India January 23(IM): Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known."It's 200 million years older than the previously oldest kno...

[Read on source site](#)



Two billion years ago, snowball Earth was defrosted in huge asteroid crash – and it's been downhill ever since

23 Jan 2020 5:55AM • channelregister.co.uk by Katyanna Quach

Brief: SSTC • 426 words • Market: Australia • Item ID: DA0051961166

Space prang rose temperatures, melted glaciers, influenced climate, next thing we know: we're sharing AI-filtered selfies on InstaPic Scientists studying minerals in the Yarrabubba crater in Western Australia have confirmed the giant pit was formed when a...

AUD 781,724

[Read on source site](#)



Scientists have analysed minerals in the ground and determined the oldest asteroid strike to hit Earth happened in outba...

23 Jan 2020 6:32AM • 4BC

Brief: SSTC • 20 words • Market: Australia • Item ID: X00081843131

Scientists have analysed minerals in the ground and determined the oldest asteroid strike to hit Earth happened in outback WA.

AUD 934  32,000

Also broadcast from: Radio 4KZ (Innisfail), 4LG (Longreach), 1071 AM (Kingaroy)



Two billion years ago, snowball Earth was defrosted in huge asteroid crash – and it's been downhill ever since

23 Jan 2020 5:55AM • theregister.co.uk by Katyanna Quach

Brief: SSTC • 426 words • Market: Australia • Item ID: DA0051961165

Space prang rose temperatures, melted glaciers, influenced climate, next thing we know: we're sharing AI-filtered selfies on InstaPic Scientists studying minerals in the Yarrabubba crater in Western Australia have confirmed the giant pit was formed when a...

AUD 320  513

[Read on source site](#)



The world's oldest asteroid strike has been identified in Yarrabubba in WA by scientists. Curtin University research fel...

23 Jan 2020 6:32AM • 2GB

Brief: SSTC • 31 words • Market: Australia • Item ID: X00081842141

The world's oldest asteroid strike has been identified in Yarrabubba in WA by scientists. Curtin University research fellow Dr Aaron Cavoie says the discovery is older than the former asteroid site.

AUD 2,030  141,000

Also broadcast from: 2CH (Sydney), Coast FM (Gosford), 2YOU FM (Tamworth), 2MAX (Narrabri), Great Lakes FM (Taree) and 7 more



2.2 Billion-Year-Old Australian Crater is the Oldest Known, And Can Reveal the Planet's History

23 Jan 2020 4:07AM • in.news.yahoo.com

Brief: SSTC • 411 words • Market: Australia • Item ID: DA0051958778

Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known."It's 200 million years older than the previously oldest known crater, which was t...

[Read on source site](#)



2.2 Billion-Year-Old Australian Crater is the Oldest Known, And Can Reveal the Planet's History

23 Jan 2020 4:05AM • news.google.com

Brief: SSTC • 430 words • Market: Australia • Item ID: DA0051958743

A NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known.Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the old...

[Read on source site](#)



2.2 Billion Year Old Australian Crater is the Oldest Known, And Can Reveal the Planet's History

23 Jan 2020 3:52AM • news18.com

Brief: SSTC • 430 words • Market: Australia • Item ID: DA0051958199

A NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known.Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the old...

[Read on source site](#)



Yarrabubba, Kawah Asteroid Tertua yang Mencairkan Bumi

23 Jan 2020 3:19AM • gatra.com

Brief: SSTC • 425 words • Market: Australia • Item ID: DA0051957525

Ilustrasi Tabrakan asteroid dengan Bumi. (Mopic/Adobe Stock/tss)Bentley WA, Gatra.com --- Ilmuwan Universitas Curtin telah menemukan tabrakan asteroid tertua di Bumi terjadi di Yarrabubba, di pedalaman Australia Barat, dan bertepatan dengan berakhirnya pe...

[Read on source site](#)



Earth's Oldest Asteroid Strike Linked To 'Big Thaw'

23 Jan 2020 2:54AM • eurasiareview.com

Brief: SSTC • 180 words • Market: Australia • Item ID: DA0051956796

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth.The research, published in the leading journal N...

[Read on source site](#)



地球上的撞击坑可能会告诉我们关于我们星球冰冻的过去

23 Jan 2020 1:51AM • eastday.com

Brief: SSTC • 1882 words • Market: Australia • Item ID: DA0051955500

地球在其漫长的历史中经历了几次“雪球”阶段科学家们已经确定了地球上已知最古老的撞击坑，这个古老的结构可以告诉我们，我们的星球是如何从很久以前的冰...

AUD 1,032  915

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

23 Jan 2020 1:00AM • newkerala.com

Brief: SSTC • 415 words • Market: Australia • Item ID: DA0051953962

Washington, Jan 22: Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest known..."

AUD 8,091

[Read on source site](#)
 **2 bn years old Australian meteor crater is oldest known: NASA**

23 Jan 2020 12:25AM • indianlink.com.au

Brief: SSTC • 416 words • Market: Australia • Item ID: DA0051953135

Analysing the age of the Yarrabubba- Australian meteor crater in remote Western Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest..."

AUD 210,823

[Read on source site](#)
 **2 bn years old Australian meteor crater is oldest known: NASA**

23 Jan 2020 12:25AM • Indian News Link

Brief: SSTC • 437 words • Market: Australia • Item ID: 1226575810

Analysing the age of the Yarrabubba- Australian meteor crater in remote Western Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously..."

AUD 1,287

[Read on source site](#)
 **The oldest crater on earth was hit 2.229 billion years ago**

23 Jan 2020 12:00AM • Shenzhen Special Zone Daily

Brief: SSTC • 2 words • Market: Southern China • Item ID: 1233189682

n/a

AUD 3,827  440,000[View original](#)
 **Earth's oldest asteroid impact found in Australia**

23 Jan 2020 12:00AM • Int Press - USA

Brief: SSTC • 471 words • Market: Australia • Item ID: 1232323124

By {Catherine Kornei C 2020 The New York Times Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the oldest?

[View original](#)
 **Yarrabubba, Planet's Oldest Asteroid Impact –“May Have Ended Snowball Earth”**

22 Jan 2020 11:32PM • dailygalaxy.com

Brief: SSTC • 301 words • Market: Australia • Item ID: DA0051952014

"Our findings highlight that acquiring precise ages of known craters is important – this one sat in plain sight for nearly two decades before its significance was realized. Yarrabubba is about half the age of the Earth and it raises the question of whether..."

[Read on source site](#)

**Earth's Oldest Asteroid Strike Linked To 'Big Thaw'**

22 Jan 2020 11:00PM • news.google.com

Brief: SSTC • 180 words • Market: Australia • Item ID: DA0052015269

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading journal N...

[Read on source site](#)

**The 2.2 billion year old Australian crater is the oldest known and can reveal the history of the planet**

22 Jan 2020 11:00PM • news.google.com by James Mumaw

Brief: SSTC • 451 words • Market: Australia • Item ID: DA0052015262

Analyzing the age of the Yarrabubba meteor crater in Australia, a NASA scientist discovered that it is 2,229 billion years old, so it is now the oldest known crater currently. "It is 200 million years older than the oldest known crater previously, which wa...

[Read on source site](#)

**2.2 Billion-Year-Old Impact Crater in Australia – Asteroid Strike May Have Ended Snowball Earth**

22 Jan 2020 10:51PM • news.google.com

Brief: SSTC • 549 words • Market: Australia • Item ID: DA0051951041

New Research Finds Earth's Oldest Asteroid Strike Linked to 'Big Thaw' Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze know...

[Read on source site](#)

**Scientists determine West Australian feature is world's oldest impact crater**

22 Jan 2020 9:50PM • spaceconnectonline.com.au

Brief: SSTC • 476 words • Market: Australia • Item ID: DA0051950099

The oldest known impact crater on Earth is the Yarrabubba crater in Western Australia, a 70-kilometre geological feature that doesn't actually look much like it was hit by a giant rock. Scientists from the School of Earth and Planetary Sciences at Curtin U...

AUD 252,516

[Read on source site](#)

**Scientists determine West Australian feature is world's oldest impact crater**

22 Jan 2020 9:50PM • spaceconnectonline.com.au

Brief: SSTC • 502 words • Market: Australia • Item ID: 1226529009

The oldest known impact crater on Earth is the Yarrabubba crater in Western Australia, a 70-kilometre geological feature that doesn't actually look much like it was hit by a giant rock. Scientists from the School of Earth and Planetary Sciences at...

AUD 1,535

[Read on source site](#)

**NASA Team Determines Age of World's Oldest Known Meteor Crater**

22 Jan 2020 9:39PM • geek.com

Brief: SSTC • 393 words • Market: Australia • Item ID: DA0051949883

We tailor your experience and understand how you and other visitors use this website by using cookies and other technologies. This means we are able to keep this site free-of-charge to use. Major meteor craters are scattered all over Earth, however, their ...

[Read on source site](#)**NASA Determines Australian Meteor Crater is the Oldest Known, Dated Over 2 Billion Years-Old**

22 Jan 2020 8:27PM • spacecoastdaily.com

Brief: SSTC • 454 words • Market: Australia • Item ID: DA0051948218

The Yarrabubba impact structure Erickson studied is located in a very remote part of Western Australia. The original crater is believed to have been 70 kilometers across, though its remnant today is only 20 kilometers. (NASA Image)(NASA) – The Earth is po...

[Read on source site](#)**Oldest Meteorite Crater on Earth Identified Using Ancient Crystal Extraction January 22**

22 Jan 2020 8:56PM • Alive For Football by Kerry Garner

Brief: SSTC • 242 words • Market: Australia • Item ID: DA0051948949

The Earth has a continually changing surface due to tectonics and erosion, which means that very old impact craters are hard to identify, the study said. The timing of the Yarrabubba impact coincides with the end of the early "Snowball Earth", a period wh...

[Read on source site](#)**Scientists discover world's oldest asteroid crater**

22 Jan 2020 8:08PM • rnz.com.nz

Brief: SSTC • 69 words • Market: Australia • Item ID: DA0051947728

Scientists in Australia have identified the world's oldest asteroid crater. The asteroid hit Yarrabubba in Western Australia about 2.2 billion years ago That makes the crater about half the age of Earth and it may explain how the planet was lifted from an...

[Read on source site](#)**Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 8:53PM • dannyboston.blogspot.com

Brief: SSTC • 424 words • Market: Australia • Item ID: DA0051948902

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading journal N...

[Read on source site](#)**Scientists discover world's oldest asteroid crater**

22 Jan 2020 8:08PM • Radio New Zealand

Brief: SSTC • 72 words • Market: Australia • Item ID: 1226494809

Scientists in Australia have identified the world's oldest asteroid crater. The asteroid hit Yarrabubba in Western Australia about 2.2 billion years ago That makes the crater about half the age of Earth and it may explain how the planet was lifted from...

[Read on source site](#)

 **Earth's Oldest Known Meteorite Impact Structure Identified**

22 Jan 2020 7:24PM • sci-news.com by Martian North Pole, Ultraviolet Auroras, Sheds Light

Brief: SSTC • 409 words • Market: Australia • Item ID: DA0051946828

The 70 km- (43.5-mile) diameter Yarrabubba impact structure in Western Australia is approximately 2.23 billion years old, according to new research led by Curtin University scientists. To determine the exact age of Yarrabubba, Dr. Timmons Erickson of Curti...

[Read on source site](#)

 **Study links Earth's oldest asteroid strike with end of 'Snowball Earth'**

22 Jan 2020 7:03PM • Breitbart.com

Brief: SSTC • 269 words • Market: Australia • Item ID: DA0051946379

Jan. 22 (UPI) — New dates for the Yarrabubba crater, located in outback Western Australia, suggest the asteroid impact triggered the end of a global deep freeze called Snowball Earth. According to isotopic analysis conducted by scientists at Curtin Univers...

[Read on source site](#)

 **World's oldest asteroid strike in western Australia might have triggered a global thaw**

22 Jan 2020 6:49PM • Dailyhunt.in

Brief: SSTC • 1000 words • Market: Australia • Item ID: DA0051946127

The world's oldest remaining asteroid crater is at a place called Yarrabubba, southeast of the town of Meekatharra in Western Australia. Our new study puts a precise age on the cataclysmic impact - showing Yarrabubba is the oldest known crater and dating i...

[Read on source site](#)

 **2 Bn Years Old Australian Meteor Crater Is Oldest Known: NASA**

22 Jan 2020 6:32PM • Dailyhunt.in

Brief: SSTC • 412 words • Market: Australia • Item ID: DA0051945782

Washington: Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest known crater,...

[Read on source site](#)

 **Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 6:15PM • Sciencedaily.com

Brief: SSTC • 602 words • Market: Australia • Item ID: DA0051945321

Scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research used isotopic analysis of minerals to calculate the ...

[Read on source site](#)

 **2 Bn Years Old Australian Meteor Crater Is Oldest Known: NASA**

22 Jan 2020 6:02PM • Odishatv.in

Brief: SSTC • 412 words • Market: Australia • Item ID: DA0051945006

Washington: Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest known crater,...

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 5:55PM • webindia123.com

Brief: SSTC • 414 words • Market: Australia • Item ID: DA0051944867

Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known."It's 200 million years older than the previously oldest known crater, which was t...

[Read on source site](#)

 **New Research Finds Earth's Oldest Asteroid Strike Linked To 'Big Thaw'**

22 Jan 2020 4:24PM • enn.com

Brief: SSTC • 191 words • Market: Australia • Item ID: DA0051942517

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth.The research, published in the leading journal N...

[Read on source site](#)

 **NASA Determines Australian Meteor Crater is the Oldest Known**

22 Jan 2020 4:24PM • enn.com

Brief: SSTC • 193 words • Market: Australia • Item ID: DA0051942526

The Earth is pocked with roughly 190 major meteor craters, yet scientists only know the age of just a few. Recently, A NASA scientist analyzed the age of the Yarrabubba meteor crater in Australia and found it to be 2.229 billion years old, making it now t...

[Read on source site](#)

 **Yarrabubba, Planet's Oldest Asteroid Impact –“May Have Ended Snowball Earth”**

22 Jan 2020 4:18PM • news.google.com

Brief: SSTC • 384 words • Market: Australia • Item ID: DA0051942227

“Our findings highlight that acquiring precise ages of known craters is important – this one sat in plain sight for nearly two decades before its significance was realized. Yarrabubba is about half the age of the Earth and it raises the question of whethe...

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 **New research finds Earth's oldest asteroid strike linked to'big thaw'**

22 Jan 2020 3:53PM • brightsurf.com

Brief: SSTC • 505 words • Market: Australia • Item ID: DA0051941364

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth.The research, published in the leading journal N...

[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 3:22PM • yankeesunscripted.com by Katie Ramirez

Brief: SSTC • 448 words • Market: Australia • Item ID: DA0051940434

Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tuesday. The timing of Yarrabubba's impact coincides with the formation of some of Earth's ...

[Read on source site](#)

 **Earth's oldest asteroid strike may have ended 'Snowball Earth'**

22 Jan 2020 3:22PM • foxnews.com by By Chris Ciaccia | Fox News
Brief: SSTC • 419 words • Market: Australia • Item ID: DA0051942487

Researchers have discovered the Earth's oldest asteroid impact crater, a 2.2 billion-year-old strike found in Western Australia. The space rock may have also ended a massive ice age that radically altered the planet's climate, known as "Snowball Earth." T...

[Read on source site](#)

 **Outback Australia home to Earth's oldest asteroid strike**

22 Jan 2020 2:30PM • newburghpress.com by Denise Bradley
Brief: SSTC • 481 words • Market: Australia • Item ID: DA0051939172

Erickson and his colleagues identified that the meteorite which hit the earth and caused the crater had a diameter of around several miles. In a statement, study co-author Aaron Cavosie of Curtin University said the study may have potentially significant i...

AUD 899,226

[Read on source site](#)

 **Earth's oldest asteroid strike may have ended 'Snowball Earth'**

22 Jan 2020 3:22PM • FOXNews.com by By Chris Ciaccia | Fox News
Brief: SSTC • 424 words • Market: Australia • Item ID: 1226410335

Researchers have discovered the Earth's oldest asteroid impact crater, a 2.2 billion-year-old strike found in Western Australia. The space rock may have also ended a massive ice age that radically altered the planet's climate, known as "Snowball..."

AUD 2,396

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 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 12:48PM • dailyworld.in
Brief: SSTC • 414 words • Market: Australia • Item ID: DA0051935385

Washington, Jan 22 : Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest know..."

[Read on source site](#)

 **New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 2:45PM • eurekalert.org
Brief: SSTC • 541 words • Market: Australia • Item ID: DA0051939543

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. VIDEO: Curtin University scientists have discover...

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 12:26PM • canindia.com
Brief: SSTC • 416 words • Market: Australia • Item ID: DA0051934775

Washington, Jan 22 (IANS) Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known. "It's 200 million years older than the previously oldest..."

AUD 8,117

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 12:21PM • daijiworld.com

Brief: SSTC • 415 words • Market: Australia • Item ID: DA0051934653

Washington, Jan 22 (IANS): Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known."It's 200 million years older than the previously oldest..."

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 11:52AM • outlookindia.com

Brief: SSTC • 445 words • Market: Australia • Item ID: DA0051933686

2 bn years old Australian meteor crater is oldest known: NASA Washington, Jan 22 (IANS) Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently k...

[Read on source site](#)

 **Scientists discover an asteroid may have ended an ice age; Little Fish Brewery to hold fundraiser for Athens Rock Camp f...**

22 Jan 2020 12:01PM • thepostathens.com by Eli Feazell

Brief: SSTC • 122 words • Market: Australia • Item ID: DA0051933941

Today is Wednesday, Jan. 22, 2020. Here's what you need to know: Good morning, One asteroid may have been responsible for ending the frozen age of Snowball Earth. The Yarrabubba crater, located in Western Australia, was determined to be the oldest crater on...

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 11:50AM • socialnews.xyz

Brief: SSTC • 423 words • Market: Australia • Item ID: DA0051933609

Washington, Jan 22 (SocialNews.XYZ) Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known."It's 200 million years older than the previous..."

[Read on source site](#)

 **2 bn years old Australian meteor crater is oldest known: NASA**

22 Jan 2020 11:55AM • prokerala.com

Brief: SSTC • 135 words • Market: Australia • Item ID: DA0051933771

Washington, Jan 22: Analysing the age of the Yarrabubba meteor crater in Australia, a NASA scientist has found it to be 2.229 billion years old, making it now the oldest crater currently known."It's 200 million years older than the previously oldest known..."

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 **Interview with Dr Aaron Cavosie, School of Earth and Planetary Sciences at Curtin University. Parker says there is a the...**


22 Jan 2020 11:39AM • 6PR by Gareth Parker

Brief: SSTC • 77 words • Market: Australia • Item ID: X00081834712

Interview with Dr Aaron Cavosie, School of Earth and Planetary Sciences at Curtin University. Parker says there is a theory that life started on this planet in Meekatharra. He adds some researchers at the university have spent time examining an old crater in the WA outback. Cavosie states their discovery centred more on the asteroid strike south of...

AUD 1,653  17,000

 **This Australian meteor crater is the oldest known on Earth**

22 Jan 2020 11:26AM • knowridge.com by Chris Kirkland
Brief: SSTC • 594 words • Market: Australia • Item ID: DA0051932851

The Earth is pocked with roughly 190 major meteor craters, yet scientists only know the age of just a few. Recently, a NASA scientist analyzed the age of the Yarrabubba meteor crater in Australia and found it to be 2.229 billion years old, making it now th...

AUD 298,705

[Read on source site](#)
 **This Australian meteor crater is the oldest known on Earth**

22 Jan 2020 11:26AM • knowridge.com by Chris Kirkland
Brief: SSTC • 627 words • Market: Australia • Item ID: 1226282583

The Earth is pocked with roughly 190 major meteor craters, yet scientists only know the age of just a few. Recently, a NASA scientist analyzed the age of the Yarrabubba meteor crater in Australia and found it to be 2.229 billion years old, making it no...

AUD 1,805

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 11:04AM • heart.co.uk
Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051932245

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists. A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 598  693[Read on source site](#)
 **Outback Australia home to Earth's oldest asteroid strike**

22 Jan 2020 10:59AM • Stock News Press by Jan Bell
Brief: SSTC • 446 words • Market: Australia • Item ID: DA0051931978

Jan Bell | January 22, 2020, 12:31 Outback Australia home to Earth's oldest asteroid strike The scientists determined the Yarrabubba crater's age by analysing a "melt sheet" of crystallised rock that formed in the impact. The timing of Yarrabubba's impact c...

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:57AM • dee1063.com
Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931994

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists. A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:56AM • capitalfm.com
Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931856

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists. A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 34,961  42,467[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 10:56AM • kctv5.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051931878

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:56AM • manxradio.com
Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931875

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:55AM • pulse2.co.uk
Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931841

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:54AM • therevolution962.com
Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931832

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:54AM • three.fm
Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931818

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)


World's oldest asteroid strike in Western Australia'could have ended Ice Age'

22 Jan 2020 10:52AM • compassfm.co.uk

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931786

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)


World's oldest asteroid strike in Western Australia'could have ended Ice Age'

22 Jan 2020 10:49AM • minsterfm.com

Brief: SSTC • 370 words • Market: Australia • Item ID: DA0051931686

Published at 9:23am 22nd January 2020. (Updated at 10:46am 22nd January 2020)The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said...

AUD 774,621

[Read on source site](#)


World's oldest asteroid strike in Western Australia'could have ended Ice Age'

22 Jan 2020 10:52AM • radiox.co.uk

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931768

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 794  542

[Read on source site](#)


World's oldest asteroid strike in Western Australia'could have ended Ice Age'

22 Jan 2020 10:49AM • strayfm.com

Brief: SSTC • 361 words • Market: Australia • Item ID: DA0051931679

AddThis Sharing ButtonsThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 b...

AUD 746,006

[Read on source site](#)


World's oldest asteroid strike in Western Australia'could have ended Ice Age'

22 Jan 2020 10:50AM • 964eagle.co.uk

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931701

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:48AM • yorkshirecoastradio.com
Brief: SSTC • 368 words • Market: Australia • Item ID: DA0051931667

Published at 9:23am 22nd January 2020. (Updated at 10:47am 22nd January 2020)The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said...

AUD 752,297

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:47AM • mix96.co.uk
Brief: SSTC • 368 words • Market: Australia • Item ID: DA0051931635

Published at 9:23am 22nd January 2020. (Updated at 10:46am 22nd January 2020)The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said...

AUD 752,297

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:48AM • klfm967.co.uk
Brief: SSTC • 368 words • Market: Australia • Item ID: DA0051931657

Published at 9:23am 22nd January 2020. (Updated at 10:48am 22nd January 2020)The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said...

AUD 752,297

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:47AM • spiritfm.net
Brief: SSTC • 368 words • Market: Australia • Item ID: DA0051931636

Published at 9:23am 22nd January 2020. (Updated at 10:46am 22nd January 2020)The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said...

AUD 752,297

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:48AM • wessexfm.com
Brief: SSTC • 368 words • Market: Australia • Item ID: DA0051931643

Published at 9:23am 22nd January 2020. (Updated at 10:46am 22nd January 2020)The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said...

AUD 752,297

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia 'could have ended Ice Age'**

22 Jan 2020 10:46AM • piratefm.co.uk

Brief: SSTC • 378 words • Market: Australia • Item ID: DA0051931617

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists. A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and i...

AUD 90  90[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:39AM • uk.gaydio.co.uk

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931455

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:44AM • thebeach.co.uk

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931548

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:39AM • swanseasound.co.uk

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931419

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:40AM • dream100.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931444

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:39AM • town102.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931376

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:38AM • islandfm.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931368

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:39AM • goqradio.com

Brief: SSTC • 364 words • Market: Australia • Item ID: DA0051931388

Wednesday, January 22nd, 2020 10:27amThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, ...

AUD 747,224

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:38AM • kingdomfm.co.uk

Brief: SSTC • 375 words • Market: Australia • Item ID: DA0051931844

Wednesday, January 22nd, 2020 10:37amShare on FacebookShare on MessengerShare on Messenger Share on TwitterShare on WhatsappThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scient...

AUD 783,753

[Read on source site](#)
 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:38AM • samfm.co.uk

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931391

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:38AM • kingdomfm.co.uk

Brief: SSTC • 375 words • Market: Australia • Item ID: DA0051931360

Wednesday, January 22nd, 2020 10:27amShare on FacebookShare on MessengerShare on Messenger Share on TwitterShare on WhatsappThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scient...

AUD 783,753

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:36AM • mkfm.com

Brief: SSTC • 375 words • Market: Australia • Item ID: DA0051931238

Wednesday, January 22nd, 2020 10:27amShare on FacebookShare on MessengerShare on Messenger Share on TwitterShare on WhatsappThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scient...

AUD 783,753

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:37AM • sunshineradio.co.uk

Brief: SSTC • 364 words • Market: Australia • Item ID: DA0051931333

Wednesday, January 22nd, 2020 10:27amThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, ...

AUD 747,224

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:36AM • thewave.co.uk

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931244

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:37AM • vibe1076.co.uk

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931273

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#)

 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:34AM • peakfm.co.uk

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931194

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:34AM • goqradio.com

Brief: SSTC • 364 words • Market: Australia • Item ID: DA0051931145

Wednesday, January 22nd, 2020 10:27amThe world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, ...

AUD 747,224

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:34AM • radioessex.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931211

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:33AM • signal107.co.uk

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931159

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:34AM • wishfm.net

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931150

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

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 **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:33AM • wave965.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931157

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:32AM • jazzfm.com

Brief: SSTC • 340 words • Market: Australia • Item ID: DA0051931097

A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is around half as old as the Earth.Experts from Curtin's School of Earth and Planetary Sciences say they analysed the minerals - zircon an...

AUD 693,242

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:33AM • silk1069.com

Brief: SSTC • 357 words • Market: Australia • Item ID: DA0051931160

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 717,798

[Read on source site](#) **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 10:01AM • wopular.com by Ashley Strickland

Brief: SSTC • 336 words • Market: Australia • Item ID: DA0051930056

(CNN) More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possible t...

[Read on source site](#) **World's oldest asteroid strike in Western Australia'could have ended Ice Age'**

22 Jan 2020 10:32AM • towerfm.co.uk

Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051931113

The world's oldest asteroid crater has been discovered in Western Australia, which could have ended an Ice Age, according to scientists.A team from Curtin University, in WA, said the Yarrabubba strike, in the Outback, happened 2.2 billion years ago and is...

AUD 739,715

[Read on source site](#) **World's Oldest Known Impact Crater**

22 Jan 2020 9:42AM • wordlesstech.com

Brief: SSTC • 408 words • Market: Australia • Item ID: DA0051929453

Scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth.The research made by Curtin University scientists, published in th...

[Read on source site](#)

**Interview with Dr Aaron Cavosie, Planetary Scientist and Research Fellow, Curtin University. Buck says scientists think ...**

22 Jan 2020 9:20AM • ABC Radio Sydney by Wendy Harmer and Robbie Buck
Brief: SSTC • 213 words • Market: Australia • Item ID: X00081829315

Interview with Dr Aaron Cavosie, Planetary Scientist and Research Fellow, Curtin University. Buck says scientists think a strange lump found at WA's Yarrabubba is the last trace of the Earth's oldest asteroid. Cavosie notes they found the remnants of an impact crater that was known before they started working on it but its age was unknown. He state...

AUD 28,024 112,000

**The World's Oldest Asteroid Strike Might Have Triggered A Global Thaw**

22 Jan 2020 8:05AM • gizmodo.com.au
Brief: SSTC • 923 words • Market: Australia • Item ID: DA0051926398

The world's oldest remaining asteroid crater is at a place called Yarrabubba, southeast of the town of Meekatharra in Western Australia. Our new study puts a precise age on the cataclysmic impact – showing Yarrabubba is the oldest known crater and dating i...

AUD 74 141

[Read on source site](#)

**15:32 WIB. Bursa - Indeks KOSPI ditutup positif 1,23% pada level 2.267.**

22 Jan 2020 8:43AM • wartaekonomi.co.id
Brief: SSTC • 440 words • Market: Australia • Item ID: DA0051927803

Valas - Dollar AS melemah 0,06% terhadap Poundsterling pada level 1.3058 USD/GBP. 13:26 WIB. Valas - Dollar AS melemah 0,02% terhadap Euro pada level 1,1084 USD/EUR. 13:25 WIB. Valas - Dollar AS menguat 0,15% terhadap Yen pada level 110,04 JPY/USD. 13:07 ...

[Read on source site](#)

**Earth's oldest known impact crater may tell us a lot about our planet's frozen past**

22 Jan 2020 7:30AM • news.google.com by Mike Wall
Brief: SSTC • 920 words • Market: Australia • Item ID: DA0051925034

Yarrabubba Crater was blasted out by an asteroid or comet about 2.23 billion years ago. Earth has experienced several "snowball" phases during its long history. Scientists have identified the oldest known impact crater on Earth — and the ancient structure c...

[Read on source site](#)

**World's oldest asteroid site in Australia linked to 'big thaw'**

22 Jan 2020 8:41AM • ecns.cn
Brief: SSTC • 316 words • Market: Australia • Item ID: DA0051927737

An impact crater in outback Western Australia was confirmed to be the site of the world's oldest asteroid strike, with new research on Wednesday revealing the collision took place 2.229 billion years ago -- 200 million years before the next oldest strike....

AUD 886,524

[Read on source site](#)

**Geologists Confirm a Staggering 2.2 Billion-Year-Old Impact Crater in Australia**

22 Jan 2020 7:30AM • news.google.com by Carly Cassella
Brief: SSTC • 121 words • Market: Australia • Item ID: DA0051925031

Throughout its life, our planet has been pummeled by countless asteroids and comets - even more so than the crater-ridden Moon. Today, thanks to Earth's continually changing surface, there are remarkably few scars left to tell the tale. Australia's relati...

[Read on source site](#)

 **NASA Determines Australian Meteor Crater is the Oldest Known**

22 Jan 2020 6:57AM • technology.org
Brief: SSTC • 597 words • Market: Australia • Item ID: DA0051924012

The Earth is pocked with roughly 190 major meteor craters, yet scientists only know the age of just a few. Recently, A NASA scientist analyzed the age of the Yarrabubba meteor crater in Australia and found it to be 2.229 billion years old, making it now t...

[Read on source site](#)

 **World's oldest asteroid site in Australia linked to "big thaw"**

22 Jan 2020 5:55AM • china.org.cn
Brief: SSTC • 322 words • Market: Australia • Item ID: DA0051922176

SYDNEY, Jan. 22 (Xinhua) -- An impact crater in outback Western Australia was confirmed to be the site of the world's oldest asteroid strike, with new research on Wednesday revealing the collision took place 2.229 billion years ago -- 200 million years be...

AUD 145  140

[Read on source site](#)

 **Kawah Tertua di Bumi Simpan Rahasia Zaman Es**

22 Jan 2020 6:23AM • msn.com/id-id by Dwi Murdaningsih
Brief: SSTC • 571 words • Market: Australia • Item ID: DA0051923017

© afp Bumi ilustrasi. REPUBLIKA.CO.ID, JAKARTA -- Ilmuwan telah mengidentifikasi kawah tertua di bumi yang dikenal sebagai Kawah Yarrabubba. Kawah ini terbentuk akibat benturan asteroid atau komet lebih dari 2 miliar tahun lalu. Ilmuwan meyakini kawah ter...

[Read on source site](#)

 **Earth's Oldest Asteroid Strike Linked to Snowball Earth Thaw**

22 Jan 2020 4:58AM • astrobiology.com
Brief: SSTC • 670 words • Market: Australia • Item ID: DA0051920399

Press Release - Source: Curtin University Posted January 21, 2020 11:37 PM
0 CommentsCurtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global d...

[Read on source site](#)

 **World's oldest asteroid site in Australia linked to "big thaw"**

22 Jan 2020 5:57AM • xinhuanet.com/english
Brief: SSTC • 321 words • Market: Australia • Item ID: DA0051922242

SYDNEY, Jan. 22 (Xinhua) -- An impact crater in outback Western Australia was confirmed to be the site of the world's oldest asteroid strike, with new research on Wednesday revealing the collision took place 2.229 billion years ago -- 200 million years be...

AUD 895,263

[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:24AM • wsmv.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 584 words • Market: Australia • Item ID: DA0051919556

Unlike the moon, Earth's surface is geologically active and constantly changing. This makes it difficult to determine the oldest impact craters because erosion and active tectonic plates bury the evidence.To determine that Australia's Yarrabubba crater is...

[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:19AM • fox10tv.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051919423

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

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 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:12AM • wfsb.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051919206

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

[Read on source site](#)

 **The world's oldest asteroid may have thawed the Earth**

22 Jan 2020 4:18AM • stuff.co.nz by Timmons Erickson
Brief: SSTC • 1024 words • Market: Australia • Item ID: DA0051919387

AARON J. CAVOSIE, CHRIS KIRKLAND, NICK TIMMS, THOMAS DAVISON, AND TIMMONS ERICKSON Last updated 09:55, January 22 2020GOOGLE EARTH VIA THE CONVERSATIONThe Yarrabubba crater is about 70 kilometres across.The world's oldest remaining asteroid crater is at a...

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 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:11AM • kptv.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051919166

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:15AM • kmov.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051919299

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:11AM • fox5vegas.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051919248

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

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 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:07AM • foxcarolina.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 639 words • Market: Australia • Item ID: DA0051919071

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possible...

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 **Kawah Tertua di Bumi Simpan Rahasia Zaman Es**

22 Jan 2020 3:08AM • skanaa.com by Gunungkidul Vaksin Hewan Ternak
Brief: SSTC • 597 words • Market: Australia • Item ID: DA0051917424

JAKARTA -- Ilmuwan telah mengidentifikasi kawah tertua di bumi yang dikenal sebagai Kawah Yarrabubba. Kawah ini terbentuk akibat benturan asteroid atau komet lebih dari 2 miliar tahun lalu. Ilmuwan meyakini kawah tertua di bumi ini memiliki jawaban soal ba...

[Read on source site](#)

 **Oldest known asteroid strike may have ended Snowball Earth**

22 Jan 2020 4:05AM • cbs46.com by Ashley Strickland, Wendy Eriksson
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051919087

(CNN) -- More than 2 billion years ago, an asteroid slammed into Earth and created a 43-mile wide crater in Western Australia's outback. Now, researchers believe it is the oldest known impact crater, predating others by 200 million years. And it's possibl...

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 **Kawah Tertua di Bumi Simpan Rahasia Zaman Es**

22 Jan 2020 3:02AM • republik.co.id by Rabu Jan
Brief: SSTC • 519 words • Market: Australia • Item ID: DA0051917154

Rep: Adysha Citra Ramadhani/ Red: Dwi Murdaningsih Kawah tertua di dunia terbentuk akibat benturan asteroid lebih dari 2 miliar tahun. REPUBLIKA.CO.ID, JAKARTA -- Ilmuwan telah mengidentifikasi kawah tertua di bumi yang dikenal sebagai Kawah Yarrabubba. Kaw...

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 **The world's oldest asteroid struck Earth 2.2 billion years ago triggering one of the first global warming episodes in hi...**

22 Jan 2020 3:21AM • businessinsider.in
Brief: SSTC • 471 words • Market: Australia • Item ID: DA0051917711

The Yarrabubba Crater in Australia has been identified as the oldest asteroid impact site in the world dating back 2.229 billion years. The age of the crater is nearly half that of Earth. The time of the impact coincides with when Earth came out of the de...

[Read on source site](#)

 **World's oldest asteroid strike identified in WA**

22 Jan 2020 2:41AM • communitynews.com.au
Brief: SSTC • 199 words • Market: Australia • Item ID: DA0051916490

THE world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the minerals zi...

AUD 105,277

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**World's oldest asteroid strike identified in WA**

22 Jan 2020 2:41AM • Communitynews.com.au



Brief: SSTC • 208 words • Market: Australia • Item ID: 1226124342

THE world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the...

AUD 655

[Read on source site](#)**Geologists Confirm a Staggering 2.2 Billion-Year-Old Impact Crater in Australia**

22 Jan 2020 1:52AM • sciencealert.com by Carly Cassella

Brief: SSTC • 665 words • Market: Australia • Item ID: DA0051915043

Throughout its life, our planet has been pummeled by countless asteroids and comets - even more so than the crater-ridden Moon. Today, thanks to Earth's continually changing surface, there are remarkably few scars left to tell the tale. Australia's relati...

AUD 6,834 10,022

[Read on source site](#)**The world's oldest asteroid strike in Western Australia may have triggered a global thaw**

22 Jan 2020 2:31AM • Guardian Australia by The Conversation

Brief: SSTC • 1013 words • Market: Australia • Item ID: 1226121471

A new study showing the 70km-wide Yarrabubba crater dates impact to 2.29bn years ago The world's oldest remaining asteroid crater is at a place called Yarrabubba, southeast of the town of Meekatharra in Western Australia. Our new study puts a...

AUD 31,166 15,054

[Read on source site](#)**New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 12:45AM • nationaltribune.com.au

Brief: SSTC • 506 words • Market: Australia • Item ID: DA0051913132

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading journal N...

AUD 240,795

[Read on source site](#)**WA home to earth's oldest asteroid strike**

22 Jan 2020 1:59AM • portnews.com.au

Brief: SSTC • 202 words • Market: Australia • Item ID: DA0051915338

The world's oldest asteroid strike has been identified in outback WA nearly 2.229 billion years ago. The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known a...

AUD 81,193

[Read on source site](#)

 **New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 12:45AM • nationaltribune.com.au
Brief: SSTC • 524 words • Market: Australia • Item ID: 1226093829

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading...

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 **New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 12:38AM • miragenews.com by Mirage News
Brief: SSTC • 519 words • Market: Australia • Item ID: DA0051913016

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading journal ...

AUD 242,293

[Read on source site](#)

 **New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 12:43AM • news.curtin.edu.au
Brief: SSTC • 514 words • Market: Australia • Item ID: DA0051913064

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. Zircon crystal used to date the Yarrabubba impac...

AUD 248,502

[Read on source site](#)

 **New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 12:38AM • miragenews.com by Mirage News
Brief: SSTC • 525 words • Market: Australia • Item ID: 1226092665

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. The research, published in the leading...

AUD 1,464

[Read on source site](#)

 **New research finds Earth's oldest asteroid strike linked to 'big thaw'**

22 Jan 2020 12:43AM • Curtin University Australia
Brief: SSTC • 532 words • Market: Australia • Item ID: 1226093135

Curtin University scientists have discovered Earth's oldest asteroid strike occurred at Yarrabubba, in outback Western Australia, and coincided with the end of a global deep freeze known as a Snowball Earth. Zircon crystal used to date the Yarrabubba...

AUD 1,508

[Read on source site](#)

 **RT @AaronCavosie: Are you chillin' with 'bubba? . . Check out an Open Access copy our our new paper at Nature Communicat...**

22 Jan 2020 12:34AM • Twitter by Curtin Media
Followers: 3651 • Following: 3541 • Tweets: 9238 • Item ID: DS0131038318

RT @AaronCavosie: Are you chillin' with 'bubba? . . Check out an Open Access copy our our new paper at Nature Communications, reporting Yarrabubba, Earth's oldest asteroid strike, found in the outback of Western Australia. It went... <https://t.co/XfWxxZnBBQ>

 3,651

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 **Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago**

22 Jan 2020 12:29AM • wopular.com by Doyle Rice
Brief: SSTC • 425 words • Market: Australia • Item ID: DA0051912615

Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tuesday. It's the world's oldest known impact site, the new study said, one that also may ha...

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 **Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago**

22 Jan 2020 12:29AM • USA Today by Doyle Rice
Brief: SSTC • 455 words • Market: Australia • Item ID: 1226088765

Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tuesday. It's the world's oldest known impact site, the new study said, one that also ma...

AUD 13,953

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 **Did Australia Asteroid End Snowball Earth?**

22 Jan 2020 12:22AM • newsmax.com by Greg Richter
Brief: SSTC • 289 words • Market: Australia • Item ID: DA0051912543

Scientists now believe an ancient crater in the Australian outback is the oldest known asteroid impact and might have brought about the end of Snowball Earth, a time hypothesized as when the entire planet was essentially a giant ball of ice. In an article ...

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 **World's oldest asteroid strike may have thawed Earth**

21 Jan 2020 11:44PM • odt.co.nz
Brief: SSTC • 181 words • Market: Australia • Item ID: DA0051911467

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the minerals zi...

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 **World's oldest asteroid strike may have thawed Earth**

21 Jan 2020 11:44PM • Otago Daily Times
Brief: SSTC • 196 words • Market: Australia • Item ID: 1226075198

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the...

AUD 24  197

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**Earth's oldest asteroid impact found in Australia — a collision more than 2.2 billion years ago**

21 Jan 2020 10:52PM • mcall.com by Katherine Kornei
Brief: SSTC • 398 words • Market: Australia • Item ID: DA0051910464

A photo provided by Timmons Erickson shows an outcrop of impact melt rock on Barlangi Hill in the Yarrabubba crater in Western Australia, the site of an asteroid collision more than 2 billion years old. (Timmons Erikson/NYT)Earth is constantly being pumme...

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**Earth's oldest asteroid impact found in Australia — a collision more than 2.2 billion years ago**

21 Jan 2020 10:48PM • dailypress.com by Katherine Kornei
Brief: SSTC • 360 words • Market: Australia • Item ID: DA0051910709

A photo provided by Timmons Erickson shows an outcrop of impact melt rock on Barlangi Hill in the Yarrabubba crater in Western Australia, the site of an asteroid collision more than 2 billion years old. (Timmons Erikson/NYT)Earth is constantly being pumme...

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**Earth's oldest asteroid impact found in Australia — a collision more than 2.2 billion years ago**

21 Jan 2020 10:38PM • courant.com by Katherine Kornei
Brief: SSTC • 680 words • Market: Australia • Item ID: DA0051910146

A photo provided by Timmons Erickson shows an outcrop of impact melt rock on Barlangi Hill in the Yarrabubba crater in Western Australia, the site of an asteroid collision more than 2 billion years old. (TIMMONS ERICKSON/NYT)Earth is constantly being pumm...

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**Earth's Oldest Asteroid Impact Found in Australia**

21 Jan 2020 10:32PM • msn.com/en-nz by Katherine Kornei
Brief: SSTC • 640 words • Market: Australia • Item ID: DA0051909981

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the o...

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**Earth's Oldest Asteroid Impact Found in Australia**

21 Jan 2020 10:32PM • MSN New Zealand by Katherine Kornei
Brief: SSTC • 670 words • Market: Australia • Item ID: 1226051065

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust.

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**Earth's Oldest Asteroid Impact Found in Australia**

21 Jan 2020 10:16PM • pulse.ng
Brief: SSTC • 627 words • Market: Australia • Item ID: DA0051909666

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the o...

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**Earth's Oldest Asteroid Impact Found in Australia**

21 Jan 2020 10:16PM • pulse.com.gh
 Brief: SSTC • 627 words • Market: Australia • Item ID: DA0051909647

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the o...

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**WA home to earth's oldest asteroid strike**

21 Jan 2020 10:09PM • Eyre Peninsula Tribune
 Brief: SSTC • 416 words • Market: Australia • Item ID: 1226042730

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the...

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AUD 1,163

**Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago**

21 Jan 2020 10:15PM • yahoo.com/news/us by Doyle Rice
 Brief: SSTC • 442 words • Market: Australia • Item ID: DA0051909657

Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tuesday. It's the world's oldest known impact site, the new study said, one that also may ha...

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**Earth's Oldest Asteroid Impact Found in Australia**

21 Jan 2020 9:01PM • msn.com/en-sg by Katherine Kornei
 Brief: SSTC • 624 words • Market: Australia • Item ID: DA0051908105

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the o...

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AUD 2,212 1,706

**WA home to earth's oldest asteroid strike**

21 Jan 2020 10:09PM • eyretribune.com.au
 Brief: SSTC • 399 words • Market: Australia • Item ID: DA0051909513

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the minerals zi...

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AUD 190,698

**Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago**

21 Jan 2020 8:51PM • Yahoo! News by Doyle Rice
 Brief: SSTC • 477 words • Market: Australia • Item ID: 1226015397

Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tuesday. It's the world's oldest known impact site, the new study said, one that also...

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AUD 2,693


Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago

21 Jan 2020 8:46PM • dailyworld.com by Doyle Rice
Brief: SSTC • 428 words • Market: Australia • Item ID: DA0051907793

The Yarrabubba crater in Western Australia is now believed to be the world's oldest impact crater, at some 2.2 billion years old. Chris Kirkland
Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater i...

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Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago

21 Jan 2020 8:07PM • hattiesburgamerican.com by Doyle Rice
Brief: SSTC • 363 words • Market: Australia • Item ID: DA0051907059

The impact left behind a scar on the land that's known as the Yarrabubba impact crater. Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tues...

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WA home to earth's oldest asteroid strike

21 Jan 2020 8:22PM • news.com.au
Brief: SSTC • 203 words • Market: Australia • Item ID: DA0051907290

Scientists have identified the world's oldest asteroid strike in central Western Australia, saying it came at a time when ancient glaciations were vaporised. The world's oldest asteroid strike has been identified in outback Western Australia and may have h...

AUD 6,974  12,679

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WA home to earth's oldest asteroid strike

21 Jan 2020 8:05PM • theislanderonline.com.au
Brief: SSTC • 193 words • Market: Australia • Item ID: DA0051910913

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the minerals z...

AUD 106,455

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WA home to earth's oldest asteroid strike


21 Jan 2020 8:22PM • NEWS.com.au
Brief: SSTC • 220 words • Market: Australia • Item ID: 1226004734

Scientists have identified the world's oldest asteroid strike in central Western Australia, saying it came at a time when ancient glaciations were vaporised. The world's oldest asteroid strike has been identified in outback Western Australia and may...

AUD 7,720  10,387

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WA home to earth's oldest asteroid strike

21 Jan 2020 8:05PM • Kingscote Islander
Brief: SSTC • 200 words • Market: Australia • Item ID: 1226066315

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the...

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Scientists just discovered that an asteroid may have ended 'Snowball Earth' 2.2 billion years ago

21 Jan 2020 8:03PM • visaliatimesdelta.com by Doyle Rice
Brief: SSTC • 363 words • Market: Australia • Item ID: DA0051906978

The impact left behind a scar on the land that's known as the Yarrabubba impact crater. Some 2.2 billion years ago, an asteroid slammed into the Earth, leaving behind a massive, 43-mile-wide crater in what's now Western Australia, scientists announced Tues...

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Scientists just discovered where Earth's oldest asteroid hit 2.2 billion years ago

21 Jan 2020 8:02PM • usatoday.com by Doyle Rice
Brief: SSTC • 467 words • Market: Australia • Item ID: DA0051906970

The impact left behind a scar on the land that's known as the Yarrabubba impact crater. The impact could have released up to 11,000 trillion pounds of water vapor into the atmosphere. It's the world's oldest known impact site, the study said, one that als...

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Scientists just discovered where Earth's oldest asteroid hit 2.2 billion years ago

21 Jan 2020 8:02PM • USA Today by Doyle Rice
Brief: SSTC • 487 words • Market: Australia • Item ID: 1225997008

The impact left behind a scar on the land that's known as the Yarrabubba impact crater. The impact could have released up to 11,000 trillion pounds of water vapor into the atmosphere. It's the world's oldest known impact site, the study said, one...

AUD 14,825

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Earth's oldest asteroid impact found in Australia

21 Jan 2020 8:00PM • wral.com by Katherine Kornei
Brief: SSTC • 497 words • Market: Australia • Item ID: DA0051906892

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the o...

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WA home to earth's oldest asteroid strike

21 Jan 2020 7:58PM • Daily Telegraph Australia by Australian Associated Press
Brief: SSTC • 206 words • Market: Australia • Item ID: 1225999888

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the mineral...

AUD 248  567

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WA home to earth's oldest asteroid strike

21 Jan 2020 7:58PM • Northern Territory News by Australian Associated Press
Brief: SSTC • 206 words • Market: Australia • Item ID: 1226000401

The world's oldest asteroid strike has been identified in outback Western Australia and may have helped lift the planet out of a global deep freeze known as a Snowball Earth, scientists say. Researchers at Perth's Curtin University analysed the mineral...

AUD 8  46

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27 AUG, 2020

Celebrate WA's role in global space industry

Countryman, Perth



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Celebrate WA's role in global space industry

I note Tina Spadaccini's acknowledgement of the addition of the CSIRO Parkes Radio Telescope to the National Heritage List (The West Australian, Letters, 17/8). We should also recognise the role WA has played in the space race.

WA has a long history of involvement in the international space program.

From 1961 WA, through the Mueha and Carnarvon tracking stations, was heavily involved in the Mercury, Gemini and Apollo missions to the Moon.

At the height of its operation the Carnarvon Tracking Station had a staff of 220 people and was the biggest NASA tracking station outside the US.

I met former Carnarvon "trackers", and visited the Carnarvon Space and Technology Museum when they gathered to celebrate the 50th anniversary of the Apollo landing last year, and I would strongly encourage all

history buffs and space enthusiasts to visit the museum.

The Carnarvon Tracking Station was a vital link to the

manned space missions.

Spacecraft which launched from Cape Kennedy passed close to Carnarvon on their first orbits around the Earth.

The tracking station was used to uplink commands to the Apollo spacecraft to set it on a trajectory to arrive at the Moon, and was also the prime link for the last

hours of re-entry to Earth. Since then, WA has positioned itself to take an even greater role in the space industry and is one of the only places in the world where NASA and the European Space Agency are actively engaged.

With WA recently named as the HQ for the Australian Remote Operations for Space and Earth, and the establishment of both the Australian Space Robotics, Automation, and AI Command Control Complex and the

Australian Space Data Analysis Facility right here in Perth, the WA Government has ensured a leading role for the State in the new-generation space race.

Just like the Carnarvon "trackers" in the 1960s and 1970s, it will be the new generation of

hard-working, capable and innovative West Australians who help create the next chapter of our role in the space industry.

Dave Kelly, Minister for Innovation and ICT



22 AUG, 2020

WA leads the way in exploring space

Weekend West, Perth



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WA leads the way in exploring space

I note Tina Spadaccini's acknowledgement of the addition of the CSIRO Parkes Radio Telescope to the National Heritage List (*Letters*, 17/8). We should also recognise the role Western Australia has played in the space race.

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Carnarvon's museum.

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The Carnarvon Tracking Station was a vital link from Earth to the manned space missions.

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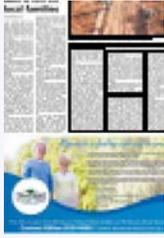
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Dave Kelly, Minister for Innovation and ICT



05 AUG, 2020

'Meteorite hunters' make unique discovery

Canning Examiner, Perth



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'Meteorite hunters' make unique discovery

Local researchers have discovered two meteorites in a two-week period on the Nullarbor Plain – one freshly fallen and another one which fell to earth in November 2019.

Both falls were captured by The Desert Fireball Network (DFN) team, which uses cameras across Australia to observe shooting stars and predict where meteorites land. This year the search team, who usually search from March to October, was postponed due to COVID-19, but as restrictions lifted it observed another meteorite fall just south of the Eyre Highway near Madura.

Lathlain local astronomer, Dr Hadrien Devillepoix and Carlisle local planetary geologist, Dr Anthony Lagain originally went on a reconnaissance mission to assess the latest fall site near Madura, taking drone imagery of the area.

Dr Devillepoix said that as they were walking back to their car along the old telegraph track near Madura Cave, they spotted what appeared to be a real meteorite on the ground just in front of them.

"I thought Anthony was playing a prank on me, that he planted one of the fake meteorites we were using for the drone training session," he said.

"But after a closer inspection, it was evident that the fist-sized, 1.1-kilogram rock we just found was indeed the meteorite we were after." Dr Devillepoix explained that although the rock was very close to the predicted fall position, the team was not expecting to find it that quickly in the bushy terrain.

"Most meteorites contain a lot of metallic iron, a lot more than normal Earth rocks," he said.

This is why meteorites typically attract a magnet, or make a

nearby compass 'go crazy'. "However, the meteorite that we found almost entirely fails the compass test – the compass needle barely gets disturbed, which is really intriguing. "The next step for us is to now figure out why this is happening and what is making this meteorite so different to the others we know about." Dr Devillepoix explained that not only do the fireball cameras allow the team to calculate where the meteorites land, they also allow it to backtrack where they came from and what orbit they were on before they hit Earth.

"We were able to determine that this meteorite was on an Aten orbit, which means that before it fell to Earth, the meteorite spent most of its time in the innermost Solar System, between Venus and Earth," he said.

"This type of orbit is unusual because, as most meteorites come from the asteroid belt between Mars and Jupiter, they usually retain an orbital connection to this area of space."

Two weeks later, Dr Martin Towner, operations chief of the team, led the six people team to search the site of the November 2019 fall.

This fall was North-West of Forrest airport in the middle of the Nullarbor. After just four hours of searching, they found the 300-gram meteorite that the DFN had seen come in on the night of November 18, 2019.

This one came from a radically different orbit, pointing to the middle part of the main asteroid belt. The team is now working to uncover what secrets the two rocks hold.



05 AUG, 2020

'Meteorite hunters' make unique discovery



Canning Examiner, Perth



Lathlain resident, Dr Hadrien Devillepoix pointing to the meteorite found near Madura.



01 AUG, 2020

Nullarbor lucky find nets two meteorites

Kalgoorlie Miner, Kalgoorlie

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Nullarbor lucky find nets two meteorites

Two meteorites have been discovered on the Nullarbor Plain by Curtin University researchers in the space of two weeks.

Both falls — one recent and one from late-2019 — were captured by The Desert Fireball Network team which uses cameras across Australia to observe shooting stars and predict where meteorites land.

Astronomer Dr Hadrien Devillepoix and planetary geologist Dr Anthony Lagain originally went on a reconnaissance mission to assess the latest fall site near Madura, taking drone imagery of the area.

Dr Devillepoix said as they were walking back to their car along the old telegraph track near Madura Cave, they spotted what appeared to be a real meteorite on the ground in front of them.

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“But after a closer inspection, it was evident that the fist-sized, 1.1kg rock we just found was indeed the meteorite we were after.”

Dr Devillepoix said the meteorite had some unusual features, including failing the “compass test”.

“Most meteorites contain a lot of metallic iron, a lot more than normal Earth rocks,” Dr Devillepoix said.

“This is why meteorites typically attract a magnet, or make a nearby compass ‘go crazy’.

“However, the meteorite that

we found almost entirely fails the compass test — the compass needle barely gets disturbed, which is really intriguing.”

Two weeks after the find, DFN operations chief Dr Martin Towner led a six-person team to search the site of a November 2019 fall north-west of Forrest airport.

After just four hours of searching, they found the 300g meteorite that the DFN had seen come in on the night of November 18, 2019.

Dr Eleanor Sansom, project manager of the DFN, said that although these rapid successes made finding meteorites sound easy, this was an incredible achievement.



The Forrest meteorite.



01 AUG, 2020

Nullarbor lucky find nets two meteorites



Kalgoorlie Miner, Kalgoorlie





25 JUL, 2020

How Twitter has killed intellectual freedom



Weekend Australian, Australia

Page 1 of 2

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How Twitter has killed intellectual freedom

This week's Federal Court decision on Peter Ridd's sacking is a warning to every academic

JANET ALBRECHTSEN



University life in the 21st century was confirmed by a court this week as being more concerned with the regulation of behaviour and the advent of social media than with the promotion of intellectual freedom and the pursuit of truth.

That is the summary of the decision of the full court of the Federal Court of Australia, on appeal from the Federal Circuit Court, released on Wednesday, that found James Cook University had legally terminated professor of physics Peter Ridd after 27 years of employment.

The esteemed scientist was sacked by JCU after the university claimed that, in breach of the JCU code of conduct, Ridd failed to act in a "collegial" manner and failed to treat a fellow staff member with "respect and courtesy". Ridd's uncollegial, disrespectful and discourteous crime was to question the quality of science emanating from parts of JCU about coral bleaching at the Great Barrier Reef in an email to a journalist and during an interview on Sky News.

It is a close contest as to which institution should be more ashamed of itself. A university that has spent many hundreds of thousands of dollars to defend sacking an academic rather than defend intellectual freedom, and has still shown zero interest in testing Ridd's claims about the lack of quality assurance of science emanating from JCU? Or the full court

of the Federal Court for endorsing Ridd's termination?

Upholding JCU's appeal against an earlier decision that awarded \$1.2m to Ridd because the university had unlawfully sacked him, the Federal Court has found that it is more important for a university to control behaviour under

a code of conduct than to meet its commitment to academics in an enterprise agreement to protect intellectual freedom.

There are three absurdities at the core of the joint judgment by justices Sarah Derrington and John Griffiths, both former academics, no less.

The nonsense starts with the fact the judges perform a convoluted and unseemly set of linguistic gymnastics to side with JCU. In clause 14.1 of the enterprise agreement between JCU and its staff, JCU explicitly commits "to act in a manner consistent with the protection and promotion of intellectual freedom". The rest of clause 14 explains intellectual freedom. Clause 13.3 of that enterprise agreement says JCU's code of conduct "is not intended to detract from Clause 14".

The farce gets worse when the majority of the court concede that JCU's code of conduct is "couched in vague and imprecise language". In fact, the two judges go further, describing as "an unfortunate consequence of the drafting, particularly given the very serious

consequences" that the code's provisions "do not readily provide clear guidance to staff as to whether particular conduct might

breach the obligations outlined in the code of conduct so as to amount to misconduct, or indeed, serious misconduct. Reasonable minds may differ about whether particular conduct in fact breaches the obligations on any given occasion."

Given the ambiguity at the heart of the code of conduct, one might think that a university, of all places, should err on the side of intellectual freedom for its academics when applying its code. It's not hard to imagine an academic feeling peeved if another academic challenges their work. It might not seem very collegial, let alone respectful. So what? That's part and parcel of the necessary rigours of academic life; it's how one set of claims is tested and confirmed or found wanting.

One might think that if a university failed to err on the side of intellectual freedom, at least a court would uphold the mission of a university when confronted with a hopelessly vague code of conduct. After all, what is the point of providing for an intellectual freedom clause in an enterprise agreement if it can be rendered meaningless by a code of conduct so vague that just about anything might subjectively be classed as uncollegial or lacking in respect



25 JUL, 2020

How Twitter has killed intellectual freedom



Weekend Australian, Australia

Page 2 of 2

and courtesy? Yet that is precisely what the Federal Court did in upholding JCU's claim to sack Ridd.

The farcical nature of this decision gets worse. The majority judges said: "There is little to be gained in resorting to historical concepts

and definitions of academic freedom. Whatever the concept once meant, it has evolved to take into account contemporary circumstances which present a challenge to it, including the internet, social media and trolling, none of which informed the view of persons such as JS Mill, John Locke, Isaiah Berlin and others who have written on the topic."

Citing "a host of new challenges" and "changing norms" and "the rise of social media" and "student demands for accommodations such as content warnings and safe spaces", the judges suggest they are in "uncharted waters" when it comes to academic freedom. Confused? So is the court as it tries to explain that the recent arrival of Twitter and other social media platforms, and new demands for protection from ideas

by some students, has led the Federal Court to allow a university to use a hopelessly vague code of conduct to sideline a centuries-old tradition of intellectual inquiry that is at the heart of human progress. The court has used Twitter to kill intellectual exploration, innovation and open debate.

This is a judicial shout-out to the fans of cancel culture, an invitation for more safe spaces and trigger warnings to protect people from uncomfortable dissent. Keep going, with our judicial imprimatur, the court is saying, and these "contemporary circumstances" will help "evolve" the limits of acceptable intellectual inquiry.

The ramifications of this decision cannot have been lost on the court. This is a warning shot to every other academic who may want to raise doubts, questions or differing views that they might also fall foul of other vaguely drafted codes of conduct at any one of the country's other universities. No junior academic, no matter how brilliant, is going to risk get-

ting sacked if Ridd, a scientist of 27 years' standing, can't exercise intellectual freedom.

Remember that Ridd wasn't querying the interpretation of Ovid's *Metamorphoses*. He was raising questions, in one particular area of his expertise, about the quality of climate change science. One of the fundamental challenges of our generation is to get the science right so we can settle on the right climate change policies. JCU told Ridd to keep quiet,

then it sacked him. And a court has endorsed its actions.

JCU's conduct, and the court's decision, has sent intellectual inquiry down the gurgler in the 21st century at an institution fundamental to Western civilisation. Is that to be legacy of JCU's vice-chancellor, Sandra Harding? And what oversight has JCU's governing council provided to this reputational damage, not to mention the waste of taxpayer dollars, in pursuing a distinguished scientist who was admired by his students?

Following this decision, no academic can assume that an Australian university will allow the kind of robust debate held at Oxford University in 1860 between the bishop of Oxford, Samuel Wilberforce, and Thomas Henry Huxley, a biologist and proponent of Darwin's theory of evolution.

The *Historical Journal* records how this legendary encounter unfolded: "The Bishop rose, and in a light scoffing tone, florid and fluent he assured us there was nothing in the idea of evolution: rock-pigeons were what rock-pigeons have always been. Then, turning to his antagonist with a smiling insolence, he begged to know, was it

through his grandfather or his grandmother that he claimed his descent from a monkey? On this Mr Huxley slowly and deliberately arose. A slight tall figure stern and pale, very quiet and very grave, he stood before us, and spoke those tremendous words ... He was not ashamed to have a monkey for his ancestor, but he would be ashamed to be connected with a man who used his great gifts to obscure the truth."

Not for nothing, Ridd's lawyers submitted this example of intellectual freedom during the first trial. In sacking Ridd, and to win in court, JCU had to argue against the means that seeks the truth — intellectual freedom.

The final joke at the centre of this scandal is that JCU, like other universities, wants more of our tax dollars to get through the economic crisis. It doesn't deserve any, let alone more.

What does the Morrison government propose to do about JCU's rejection of intellectual freedom as its core mission? Education Minister Dan Tehan surely deserves support from the Prime Minister to turn the tide, in the first instance, by implementing a mandatory intellectual freedom code as recommended by former chief justice Robert French.

If a university cannot uphold its mission as a place of learning and debate, and err on the side of intellectual freedom, then the state must compel it to do so in return for receiving even a single dollar from taxpayers.

This is a judicial shout-out to the fans of cancel culture ... to protect people from dissent



Physicist Peter Ridd



24 JUL, 2020

China launches ambitious attempt to land rover on Mars



Int Press - USA, USA

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DAY

Date: Friday, July 24, 2020
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 Circulation (DMA): 19,668 (33)
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 Page: C4
 Section: Region
 Keyword: Curtin University

China launches ambitious attempt to land rover on Mars

By SAMUEL McNEIL and ANIRUDDHA GHOSAL

Associated Press

Beijing — China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.

Engines blazing orange, a Long March-5 carrier rocket took off under clear skies about 12:40 p.m. from Hainan Island, south of China's mainland. Hundreds of space enthusiasts cried out excitedly on a beach across the bay from the launch site.

"This is a kind of hope, a kind of strength," said Li Dapeng, co-founder of the China branch of the Mars Society, an international enthusiast group. He wore a Mars Society T-shirt, and was there with his wife, 11-year-old son and 2,000 others on the beach to watch the launch.

Launch commander Zhang Xueyu announced to cheers in the control room that the rocket was flying normally about 45 minutes later. "The Mars rover has accurately entered the scheduled orbit," he said in brief remarks shown live on state broadcaster CCTV.

China's space agency said that the rocket carried the probe for 36 minutes before successfully placing it on the looping path that will take it beyond Earth's orbit and eventually into Mars' more distant orbit around the sun.

Liu Tongjie, spokesman for the mission, said in a news briefing that the launch was a "key step of China marching towards farther deep space." He said that China's aim wasn't to compete with other countries, but to peacefully explore the universe.

It marked the second flight to Mars this week, after a United Arab Emirates orbiter

blasted off on a rocket from Japan on Monday. And the U.S. is aiming to launch Perseverance, its most sophisticated Mars rover ever, from Cape Canaveral, Fla., next week.

"It's amazing that another nation has launched the case for Mars," said Dr. Katarina Miljkovic, a planetary scientist at Curtin University in Australia, adding that the world was no longer in a space race. "It's more like this marathon of space that we all want to be running."

China's tandem spacecraft — with both an orbiter and a rover — will take seven months to reach Mars, like the others. If all goes well, Tianwen-1, or "quest for heavenly truth," will look for underground water, if it's present, as well as evidence of possible ancient life.

This isn't China's first attempt at Mars. In 2011, a Chinese orbiter accompanying a Russian mission was lost when the spacecraft failed to get out of Earth's orbit after launching from Kazakhstan, eventually burning up in the atmosphere.

This time, China is going at it alone. It also is fast-tracking, launching an orbiter and rover on the same mission instead of stringing them out.

China's secretive space program has developed rapidly in recent decades. Yang Liwei became the first Chinese astronaut in 2003, and last year, Chang'e-4 became the first spacecraft from any country to land on the far side of the moon.

Conquering Mars would put China in an elite club.

"There is a whole lot of prestige riding on this," said Dean Cheng, an expert on Chinese aerospace programs at the Heritage Foundation in Washington.

The launch was "gutsy," said Dr. Jonathan McDowell,

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Landing on Mars is notoriously difficult. Only the U.S. has successfully landed a spacecraft on Martian soil, doing it eight times since 1976. NASA's InSight lander and Curiosity rover still operate today. Six other spacecraft are exploring Mars from orbit: three American, two European and one from India.

Unlike the two other Mars missions launching this month, China has tightly controlled information about the program — even withholding any name for its rover. National security concerns led the U.S. to curb cooperation between NASA and China's space program.

In an article published earlier this month in Nature Astronomy, mission chief engineer Wan Weixing said Tianwen-1 would slip into orbit around Mars in February and look for a landing site on Utopia Planitia — a plain where NASA has detected possible evidence of underground ice. Wan died in May from cancer.

The landing would then be attempted in April or May, according to the article. If all goes well, the 530-pound golf cart-sized, solar-powered rover is expected to operate for about three months, and the orbiter for two years.

There is uncertainty even after the rover lands on Mars, said Liu Tongjie. "For instance, if there is a sand storm, it needs to modify its mode of work to prevent sands falling on solar panel, which will affect its ability to get energy," he said.

Though small compared to





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YANG GUANYU/XINHUA VIA AP

In this photo released by China's Xinhua News Agency, spectators watch Thursday as a Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center in southern China's Hainan Province.

China begins effort
to put rover on Mars

24 JUL, 2020

China begins effort to put rover on Mars



Int Press - USA, USA

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TOWN TALK

Date: Friday, July 24, 2020
Location: ALEXANDRIA, LA
Circulation (DMA): 5,224 (178)
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Page: 7
Section: Main
Keyword: Curtin University

China begins effort to put rover on Mars

Samuel McNeil and Aniruddha Ghosal
ASSOCIATED PRESS

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24 JUL, 2020

China puts rover on trajectory toward Mars



Int Press - USA, USA

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LEXINGTON HERALD-LEADER

Date: Friday, July 24, 2020
 Location: LEXINGTON, KY
 Circulation (DMA): 41,318 (64)
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 Page: 22
 Section: Extra Extra
 Keyword: Curtin University

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YANG GUANYU Xinhua via AP

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24 JUL, 2020

China launches ambitious attempt to land on Mars



Int Press - USA, USA

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SUN JOURNAL (CITY EDITION)

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 Location: LEWISTON, ME
 Circulation (DMA): 19,122 (79)
 Type (Frequency): Newspaper (D)
 Page: A6
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 Keyword: Curtin University

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BY SAMUEL MCNEIL AND ANIRUDDHA GHOSAL
 ASSOCIATED PRESS

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Int Press - USA, USA

SUN JOURNAL (CITY EDITION)

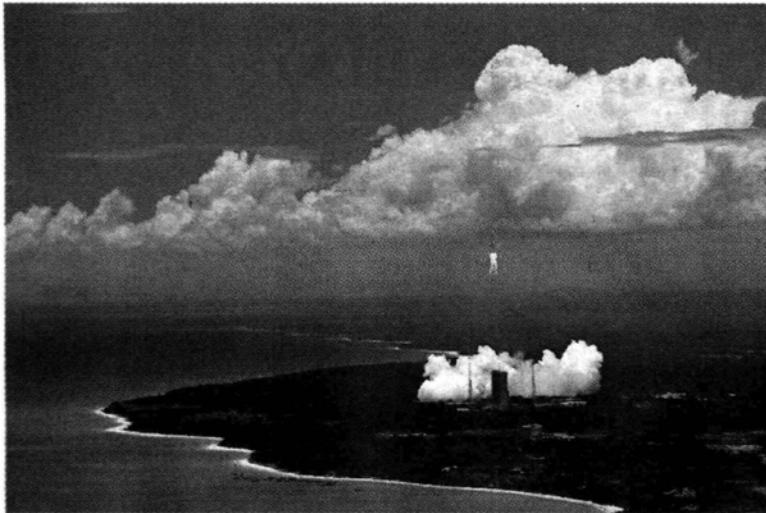
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ASSOCIATED PRESS

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24 JUL, 2020

SPACE EXPLORATION China launches ambitious attempt to land rover on Mars



Int Press - USA, USA

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The Trentonian

Date: Friday, July 24, 2020
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Type (Frequency): Newspaper (D)
Page: 19
Section: Main
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SPACE EXPLORATION

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By Samuel Mcneil and Aniruddha Ghosal

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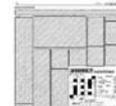
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SPACE EXPLORATION China launches ambitious attempt to land rover on Mars



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The Trentonian

Date: Friday, July 24, 2020
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history have we seen anything like what is unfolding with these three unique missions to Mars. Each of them is a science and engineering marvel," the Space Foundation's chief executive officer Thomas Zelibor said in an online panel discussion earlier this week.

China's road to Mars hit a few bumps: A Long March-5 rocket, nicknamed "Fat 5" because of its bulky shape, failed to launch earlier this year. The coronavi-

rus pandemic forced scientists to work from home. In March, when instruments needed to be transported from Beijing to Shanghai, three team members drove 12 hours to deliver them.

While China is joining the U.S., Russia and Europe in forming a satellite-based global navigation system, experts say it isn't trying to overtake the U.S. lead in space exploration.



CAI YANG — THE ASSOCIATED PRESS

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24 JUL, 2020

China attempts to land rover



Int Press - USA, USA

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Rockford Register Star

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China attempts to land rover

So far, only the U.S. has been able to place a spacecraft on Mars

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 ASSOCIATED PRESS

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[CAI YANG/XINHUA VIA THE ASSOCIATED PRESS]



24 JUL, 2020

China begins effort to put rover on Mars



Int Press - USA, USA

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THE KENTUCKY ENQUIRER

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 Keyword: Curtin University

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Liu Tongjie, spokesman for the mission, said in a press briefing that the launch was a “key step of China marching towards farther deep space.” He said that China’s aim wasn’t to compete with other countries, but to peacefully explore the universe.

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China’s tandem spacecraft – with both an orbiter and a rover – will take seven months to reach Mars, like the others. If all goes well, Tianwen-1, or “quest for heavenly truth,” will look for underground water, if it’s present, as well as evidence of possible ancient life.

This isn’t China’s first attempt at Mars. In 2011, a Chinese orbiter accompanying a Russian mission was lost when the spacecraft failed to get out of Earth’s orbit after launching from Kazakhstan, eventually burning up in the atmosphere.

This time, China is going at it alone. It also is fast-tracking, launching an orbiter and rover on the same mission instead of stringing them out.

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“There is a whole lot of prestige riding on this,” said Dean Cheng, an expert on Chinese aerospace programs at the Heritage Foundation in Washington.

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24 JUL, 2020

China launches an attempt to land its first rover on Mars



Int Press - USA, USA

[Return to media item](#)



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China launches an attempt to land its first rover on Mars

Samuel McNeil and Aniruddha Ghosal
 ASSOCIATED PRESS

BEIJING – China launched its most ambitious Mars mission yet on Thursday in a bold attempt to join the United States in successfully landing a spacecraft on the red planet.

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can, two European and one from India.

Unlike with the two other Mars missions launching this month, China has tightly controlled information about the program – even withholding any name for its rover. National security concerns led the U.S. to curb cooperation between NASA and China’s space program.

In an article published earlier this

month in Nature Astronomy, mission chief engineer Wan Weixing said Tianwen-1 would slip into orbit around Mars in February and look for a landing site on Utopia Planitia – a plain where NASA has detected possible evidence of underground ice. Wan died in May from cancer.



A Long March-5 rocket, carrying an orbiter and rover as part of the Tianwen-1 mission to Mars, lifts off from China's Hainan Province Thursday.

NOEL CELIS/AFP VIA GETTY IMAGES



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Ambitious China launches its first mission to Mars



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SPACE EXPLORATION

Ambitious China launches its first mission to Mars

Samuel McNeil and Aniruddha Ghosal *Associated Press*

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The landing would then be attempted in April or May, according to the article. If all goes well, the 530-pound golf cart-sized, solar-powered rover is expected to operate for about three months, and the orbiter for two years.

Though small compared to America's hulking, car-sized (2,260-pound) Perseverance, it's almost twice as big as the two rovers China has sent to the moon in 2013 and 2019. Perseverance is expected to operate for at least two years.



A Long March-5 rocket carrying the Tianwen-1 Mars probe lifts off from the Wenchang Space Launch Center on Thursday in southern China's Hainan Province. China launched its most ambitious Mars mission yet on Thursday in an attempt to join the United States in successfully landing a spacecraft on the red planet. Cai Yang, Xinhua via AP



19 JUL, 2020

Space enthusiasts get ready to rock



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Space enthusiasts get ready to rock

SCOTTISH scientists are turning their eyes to the skies to track meteorites – smaller, less threatening variations of their asteroid cousins – before they land on UK soil, and want volunteers to help recover the space rocks wherever they fall.

The UK Fireball Network, led by researchers from the University of Glasgow and Imperial College London, is setting out to place 10 cameras across the country to catch glimpses of the spectacular natural firework displays caused when meteoroids enter the Earth's atmosphere.

It is part of a wider network called the Global Fireball Observatory



operated by researchers in Australia at [Curtin University](#).

Earlier this year in February, the network's cameras filmed their first fireball, which dropped meteorites into the North Sea.

While those are impossible to recover, the network team expects that future sightings that fall on the UK landmass can be properly triangulated to determine a landing area

and send out a search party to find future meteorites.

Dr Luke Daly, of the University of Glasgow's School of Geographical and Earth Sciences, is one of the leaders of the UK Fireball Network.

He said: "Meteorites provide scientists with invaluable insights into other planets and our solar system.

"When we do catch sight of a fireball dropping meteorites on land, we'll need the help of volunteers to help comb the countryside to find them, so anyone interested in making a little bit of history by getting involved can follow us on Twitter at @FireballsUK."



01 JUL, 2020

Watch this space



R M Williams Outback, National

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Watch this space

*Australian space history dates back to the Dreamtime.
Now it looks forward to the next stellar projects.*

STORY JILL GRIFFITHS

There's a lot of space in the outback. Especially if you look up. Aboriginal people have been telling stories about the stars for countless generations and in March 2020, to celebrate this culture, Perth Observatory opened Worl Wangkiny, an impressive mural painted onto the walls of a part-constructed telescope dome. It was created to document and share Aboriginal stories of the night sky. In the language of the Whadjuk Noongar people of south-western WA, Worl Wangkiny means 'sky stories'.

Diana Rosman, coordinator of the Worl Wangkiny project, says Indigenous Australians are often credited with being the world's first astronomers. "Observing and interpreting the cosmos is a significant part of most language groups, and has been used for navigation, calendars, ceremony, cultural lore, songlines and art for thousands of years," Diana says. "Indigenous astronomy is an important part of this country's history, and sharing these stories and understandings of the night sky enriches all Australian cultures."

"There are other murals and other events, places and people with stories like this. But this is the only one that is incorporated within a conventional astronomical observatory. The mural has been painted along the internal walls of the dome and will be used to show the long history of Aboriginal astronomy and bring Aboriginal storytelling into the mainstream."

Diana says the real significance of Worl Wangkiny is that it is a living acknowledgement of the original custodians. "Aboriginal Nature Trekz (ANTZ), a subsidiary of the Koya Aboriginal Corporation, will lead tours that share Aboriginal culture and stories with the local community, as well as visitors from interstate and overseas," she says.

Quinton Tucker, from the Koya Aboriginal Corporation, says traditional Aboriginal people looked at the stars in a different way to modern Australians. "Traditional Aboriginal people had very practical applications in the way they looked at stars," he says. "They looked at the stars in terms of seasonal change. They looked at the direction they were pointing in terms of land features. The stars told them where to be during the seasons and different

parts of the year. They could see which parts of the landscape the stars were pointing to at different times. These stories were told around the camp fires. They were about where to go and how to behave."

Quinton says the two major stories depicted in the Perth Observatory Worl Wangkiny are a women's story about the Charnok Woman, which was painted by Sharyn Egan and Kylie Graham, and a men's story about the emu in the sky painted by Peter Farmer Jnr and James Egan. The project was led by Peter Farmer Snr and Miranda Farmer.

"Charnok Woman collected the young children and placed them in her hair, and the meaning about the falling stars is of the children coming back to earth to be reborn," Quinton says. "The emu in the sky, the dark emu, is in the Milky Way and it's a general story in Aboriginal societies right across Australia. The common theme across Australia is the 'shaman', Orion, chasing the sisters and not quite getting them, however he does succeed sometimes in catching the younger one whose faint light can be seen at certain times of the year."

Australia's involvement in space is much more recent than its involvement in astronomy, but is still old enough to have gained international kudos. In 1947 the Woomera Rocket Range was commissioned to support British missile development during World War II. Woomera, 450km north-west of Adelaide, is the largest land-based test range in the Western world. It includes the traditional lands of six Aboriginal groups, and the range's motto 'sharpen the spear' makes reference to the Aboriginal origins of the word 'woomera', which is a spear-throwing device.

More than 1000km east of Woomera is Parkes, NSW, home to 'The Dish'. The Parkes telescope was first commissioned in 1961 and, thanks to regular technological upgrades, is still considered one of the world's best radio telescopes. It is mainly used for astronomy research, but has also been used in many collaborations with the US agency NASA (National Aeronautics and Space Administration), as have other Australian space facilities.

Pictures of the 1969 Apollo moon landing showing Neil Armstrong taking that one small step were beamed >

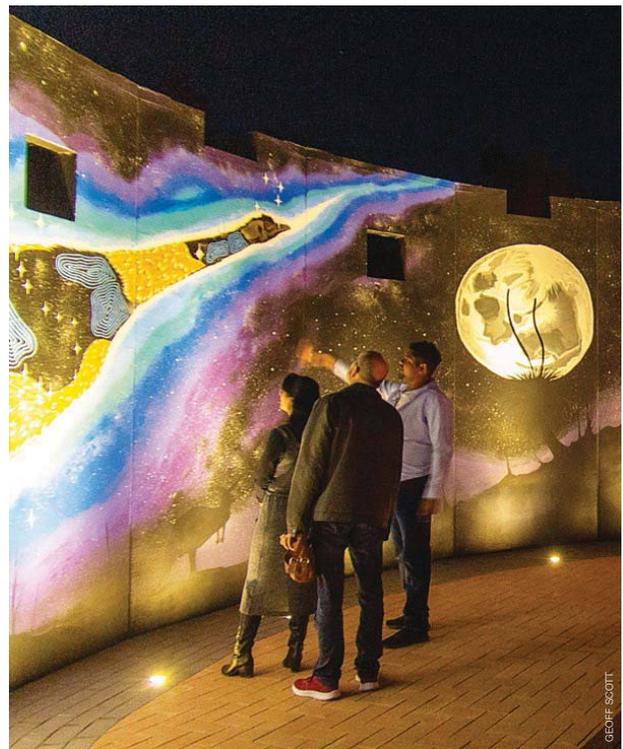


01 JUL, 2020

Watch this space



R M Williams Outback, National



CLOCKWISE FROM TOP: 'The Dish' at Parkes, NSW; Peter Farmer Jnr explains his artwork to visitors at Perth Observatory's new World Wangkiny mural; Australian astronaut Andy Thomas on his way to the Russian Mir space station in 1998.



01 JUL, 2020

Watch this space



R M Williams Outback, National



CLOCKWISE FROM ABOVE: Dr Sarah Pearce; a rocket test launch at the Woomera Rocket Range in October 1953; participants in the International Union of Radio Science conference at the University of Sydney in 1952, with Ruby Payne-Scott in the front row.

to the world from the Parkes radio telescope and NASA's Honeysuckle Creek space tracking station near Canberra. Earlier, in 1962, the people of Perth left the lights on for NASA astronaut John Glenn when he became the first American to orbit the earth. Communicating with the NASA tracking station at Muchea, WA, Lieutenant-Colonel Glenn called Perth the 'city of light', a moniker that stuck for decades.

Australia's first astronaut was Paul Scully-Power, who in 1984 flew on space shuttle *Challenger's* sixth flight (and the 13th flight of NASA's space shuttle program). Then, in 1996, Adelaide-born Dr Andy Thomas made the first of his four space flights as a NASA astronaut.

Dr Sarah Pearce, deputy director of CSIRO astronomy and space science, says, "Australia has some attributes that make it very attractive to international space research. It is large, politically stable, and geologically stable. We also have a strategic Southern Hemisphere location, along with sparsely populated areas with low light and electromagnetic interference."

CSIRO's space 'Road Map' describes Australia's location and landmass as providing a 'sweet spot' for space-

related activities. "These attributes make Australia an attractive partner for integration into global value chains and provide advantages for development of positioning services and technology, Earth observation calibration, validation and data analytics, and space situational awareness activities," the Road Map states.

Sarah points out that space services help in many day-to-day pursuits in many different fields. "Australia is very large and space is critical in monitoring the country," she says. "GPS, satellite phones, communications, monitoring from space – all those day-to-day applications that rely on space technologies are useful in how we live."

"The modern Australian space industry is about the day-to-day side of things. It's about the public good. It's very much about what space can do for you. It's seamlessly integrated into daily life, although that's not apparent all of the time. With a large solar storm, ATM networks could go down, and then we see the everyday reliance on space."

Sarah says Australia has a world-class space industry, but could do more. "Australia was one of the first countries in the world to launch a satellite," she says. "We've known how to do this for a long time."



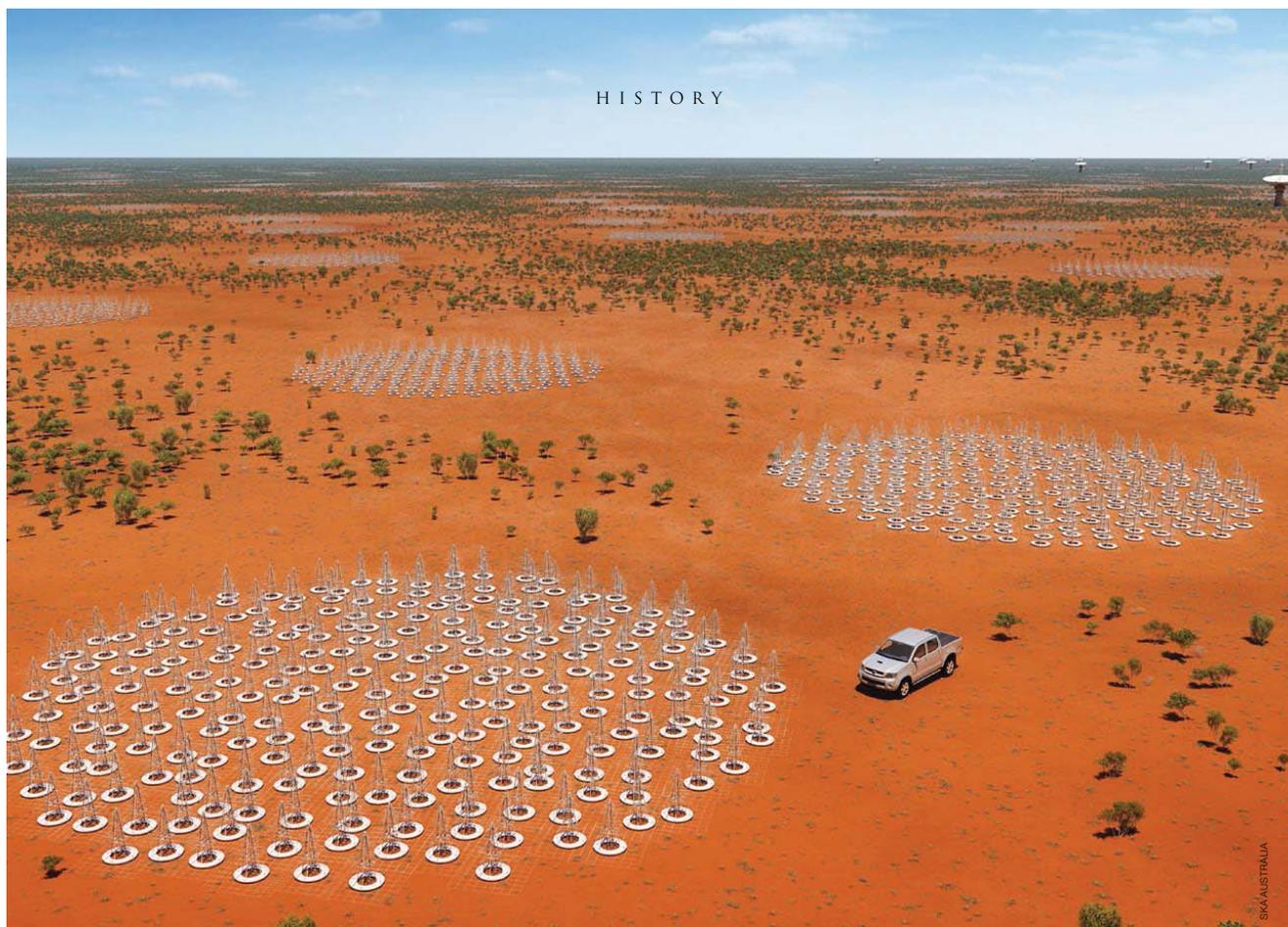
01 JUL, 2020

Watch this space



R M Williams Outback, National

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An artist's impression of the Square Kilometre Array, comprising 130,000 antennas spread over 60km in the Murchison, WA.

She says Australia's historical record in space and astronomical research is good and the future is bright. She is the Australian lead for the international collaboration to build the Square Kilometre Array (SKA). Currently involving 12 countries, and under development for 30 years, the SKA project will build two radio telescopes, one in the Murchison region, WA, and one in South Africa.

"The SKA will build the largest radio telescopes in the world," Sarah says. "In Australia, it will consist of 130,000 antennae spread across about 60km of the desert. It's a \$2 billion project over the first 10 years and we are hoping to begin construction next year."

The way in which the SKA antennas will be linked draws upon the work of Joseph Pawsey, an Australian physicist who pioneered interferometry, which enables astronomers to create more powerful telescopes by combining signals from more than one telescope. In the early 1940s, Pawsey worked with Ruby Payne-Scott and the pair carried out their first experiments on the grounds of Sydney University.

Ruby may have been the first female radio astronomer in the world. She worked at a time when the scientific community was sceptical of women's abilities and,

although she had a Master's degree in physics, her initial employment at Australian Wireless Amalgamated (AWA) was as a librarian. She started editing the AWA journal, getting involved in doing some of the research work and pretty soon her full-time librarian job was a full-time physicist's research role.

Australian astronomical research has come a long way since then and SKA will take it to a whole new level. "SKA is Australia's first chance to host one of these giant international facilities," Sarah says. "It's a big data telescope, so it's a computing challenge as well. SKA will attract people and skills in computing and that will help us with other high-tech data management."

SKA is a 21st-century astronomy project that puts a very modern slant on that ancient practice of stargazing. It adds a whole new meaning to the idea of watching this space.

"SKA will look back in time to just after the big bang," Sarah says. "It will look back past the galaxies that are shining now, right back to the cosmic dawn. We will hopefully be able to detect the cosmic dawn and take images of it. That's the aim. It will help tell us how the first galaxies came into being and how they evolved over time."



JULY, 2020

THE NEW FRONTIER



Australian Mining Review, National

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The Australian space industry is set for lift-off.

The Federal Government is paving the way for Australian companies to become key players in the global space economy, currently worth US\$350b and expected to be valued at more than US\$1.1t by 2040.

The flow-on effects will reach other markets such as mining, agriculture, finance, health and tourism.

In this article, we look at what this means for Australian resources companies.

NASA's Moon to Mars Mission

Man first landed on the Moon in 1969 through the National Aeronautics and Space Administration's (NASA) Apollo 11 mission. In Greek mythology, Artemis was the twin sister of Apollo. Now, more than half a century later and through the Artemis program, NASA aims to land the first woman and next man on the Moon by 2024 and build a sustainable human lunar presence for further exploration of the lunar surface.

Crew members will live on the spaceship Gateway that will orbit the Moon and they will take multiple trips down to the lunar surface to conduct explorations and undertake science investigations and technology experiments.

Robotics and Automation

According to a 2019 AlphaBeta report, the adoption of digital automation technologies in the mining, oil and gas industries has the potential to add \$74b in value to the national economy by 2030 and create more than 80,000 new jobs.

The report, entitled "Staying ahead of the game" was commissioned by the Industry Growth Centres for Mining Equipment, Technology and Services (METS Ignited) and National Energy Resources Australia (NERA).

It states that by about 2025, mining and oil and gas companies will have likely entered a new phase to create the fully integrated and automated mine or plant, and that around 2030, companies will continue to automate their production to realise very large benefits from technology integration.

"Robotics and automation on Earth and in space" has also been identified as a key priority area in the Australian Space Agency's

(ASA) Civil Space Strategy 2019-28. Released in April 2019, the strategy outlines a 10-year plan to guide the growth and secure the future of Australia's space sector. The ASA was set up in 2018 and is headed by Dr Megan Clark AC, former chief executive of the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and non-executive director of Rio Tinto.

The \$150m Moon to Mars initiative was launched by the ASA in late 2019 to provide an opportunity for local businesses and researchers to showcase their space capabilities to the world, some of which are already in use in the resources sector. This investment, over five years, aims to position Australia as a key player in the NASA Moon to Mars mission, such as the Artemis project and the Lunar Gateway.

"No other industry can inspire nations quite like space, where human ambition can set its sights on interplanetary missions, colonisation beyond Earth and the opportunity of finding new life," Dr Clark said. "Some may argue that Australia may be late to the party, but we are entering a time where the space sector is moving from the realm of government to the commercial world."

ASA deputy head, Anthony Murfett, says Australia is already a world leader in remote asset management, the use of automation and robotics in the resources sector.

"The distance, resources and environmental hazards in space mean that activities will not always be tended to by humans and will need to be managed remotely," he said.

"The ability to control equipment and activities at a distance and in harsh conditions here in Australia replicates some of the conditions required to be able to operate in space.

"There are also a range of other areas including mineral identification using satellite data, the application of artificial intelligence and the scientific exploration of resources, all of which are needed to support activities in space," Mr Murfett added.

The ASA Moon to Mars initiative is divided into different sub-programs: Supply Chain, Demonstrator and Trailblazer.

The Supply Chain program, offered through grants and facilitation, aims to deliver products and services into domestic and international space supply chains.

The Demonstrator program provides a pathway to develop and launch products that will create new capability and enable new business ventures, revenue streams or markets. The Trailblazer program is the ASA's inspirational flagship program, with the aim of contributing Australian capability within an international space exploration program.

Potential opportunities through the Trailblazer space exploration program include autonomous systems, next generation communications, components on lunar probes or vehicles as well as scientific investigations using mineral and other substances on the Moon.

Local companies can leverage automation, robotics, sensors and artificial intelligence applications to sustain part of the operations on a lunar infrastructure during long uncrewed periods.

The support of significant new communication pathways between Earth, the Moon and beyond will also be critical, as will space-hardened technologies that are adapted for lunar activities. These activities could include carrying out scientific investigations using minerals and other substances on the Moon and other celestial bodies in appropriate quantities.

"Supporting exploration deeper into our Solar system like Mars requires resources such as water to provide fuel and nutrition, as well as the resources in situ to support the development of infrastructure," Mr Murfett said. "The ability to extract water can support sustainable operations in space, as well as become the building blocks for fuel."

"It is expected to be much cheaper to use resources in space than transport them from the surface of the Earth. Importantly, the next five years will involve the piloting and proof of concept that these capabilities can work in space. Australia is well-positioned to support these activities as many of our technologies are already in use in remote and harsh terrains, meaning there is less of a leap to show the technology can work in space."

Federal Government Investment

Prime Minister, Scott Morrison, said the Federal Government is getting behind Australian businesses so they can take advantage of the pipeline work NASA has committed to.

"We're backing Australian businesses to the Moon, and even Mars, and back," the Prime Minister said.

"There is enormous opportunity for Australia's space sector which is why we want to triple its size to \$12 billion to create around 20,000 extra jobs by 2030.

"The growing amount of space sector work and innovation will also inspire the next generation to see the future of a career in these fields for the long term."

The Australian space sector has grown 10.1% over the last five years and is forecast for 7.1% over the next five years, outpacing GDP at 2.7%.

Federal Minister for Industry, Science and Technology, Karen Andrews, says the booming Australian space industry will also benefit everyday Australians.

"The space industry is a key growth sector that will form an important part of our economic recovery and help us emerge from the COVID-19 crisis stronger than ever," MS Andrews said.

"Investment in the space sector not only supports the creation of high-tech jobs here in Australia, but also develops technologies that can support other areas of competitive advantage for our nation including agriculture and mining. This support will strengthen Australian business and university connections with international industry and space agencies, helping our businesses to prove themselves on the global stage and potentially secure more work in the future."

Australian Consortium

The Australian Remote Operations for Space and Earth (AROSE) was set up in February 2020, one of two new industry-led collaborations through the NERA, to map and position Australia's world-leading remote operations capability.

The AROSE consortium consists of 42 industry, academia and government



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organisations and is led by founding members Woodside Energy, Nova Systems, Fugro, Curtin University and the University of WA.

AROSE director and former NASA astronaut, Colonel Pamela Melroy, says this is a unique opportunity to leverage Australia's existing expertise in remote operations.

"There is a real potential to have a direct and significant impact on international space missions such as Artemis and Lunar Gateway," she said.

"As an astronaut, I was an operator and I was deeply interested in technology solutions that had the ability to increase the productivity and reliability of our mission."

Another spokesperson for AROSE said the vision for the near term is to limit human presence to only what is necessary.

"The space industry can benefit from the experience and technology of the aerospace industry, which has been supporting remote operations for decades through systems engineering, large and complex projects, dexterous robotics and autonomous air vehicles," the spokesperson said.

Woodside Executive Vice-President and Chief Technology Officer Shaun Gregory said Woodside was already a leader in remote operations in WA, having operated offshore facilities remotely for a number of years and collaborated with other industry partners and government agencies to further develop its capabilities.

"Woodside is contributing \$1.5m and additional in-kind support to AROSE to establish WA as a global provider of remote operations capability on Earth and in space." Another Woodside spokesperson confirmed the additional in-kind support would be provided in the form of employee time.

"Our plan is to accelerate the development of technology solutions that further enable safe and efficient asset operations and management in remote and harsh conditions for use within and outside our sector, both on and off Earth," the spokesperson said.

Rio Tinto

Rio Tinto 4.0 Pioneer Lab member, Gavin Gillett, who is part of the mining giant's forward-thinking team tasked with assessing what the world looks like beyond 2030, believes the space industry will fundamentally challenge the way mining is done.

"What interests me about Artemis is the potential for accelerating key technologies

that will allow us in the mining industry to achieve a more specific, targeted, environmentally-aware and sustainable mining industry," he said.

"I like to imagine the future of mining looks something like termite mounds in the desert where I grew up. Tiny machines going in the ground autonomously, using advanced remote sensing to detect pure elements and bringing them to the surface without disturbing the ground too much. No more giant pits in the ground, no huge machines. The future of mining looks [like this to me] - small and extremely specific."

Mr Gillett says the Moon's surface is rich in resources, from solar wind volatiles and precious metals, to iron and ferroalloy metals, as well as non-ferrous metals and non-metals, among others.

"These minerals are mixed very well into the regolith, pulverised for billions of years by asteroids, and they are like grains of sand, all of which require separating into their individual elements, including water, which is in granule form," he says.

"There is so much more to explore and to understand about Earth's closest planetary object, but firstly, in order to thrive in space, we need to learn how to live off the land through in-situ resource utilisation.

"The plan is to send autonomous machines ahead of people, to find and extract resources and then build the structure required for human habitation, so we no longer need to bring everything from Earth to survive.

"The short-term focus is extracting water from the Moon for propulsion and drinking water, after which the next goal is mining platinum-grade metals, for example titanium, that can be readily 3D-printed into structures. Entire structures could be 3D-printed in future using resources that are detected, mined and smelted into filament from a single or collection of small machines.

"The disruption potential of these technologies is huge because, whoever creates the agnostic systems for mining off-world, creates a system that could work anywhere in the solar system."

"Finding life and resources on other planetary bodies could also mean potentially trillions of dollars for pharmaceutical and chemical companies."

Extra-Terrestrial Minerals

University of NSW and the Australian Centre for Space Engineering Research (ACSER)

director, Professor Andrew Dempster, says the global shift towards a low-carbon economy sees an increase in demand for renewable energy technology, leading to a rise in the minerals used in their manufacture.

"Earth's resources are finite and the global tolerance for extracting minerals from the Earth is getting lower," he said. "Alternatives, such as extracting these minerals from space, need to be examined."

Critical minerals including lithium, gallium, selenium, silver, indium, tellurium and rare earth elements (REE) are vulnerable to disruptions due to geological scarcity, geopolitical issues, trade policy or other factors.

"Many of these critical minerals are abundant in extra-terrestrial bodies, particularly near-Earth asteroids and the Moon, and the possibility of extracting resources from space is now closer to reality than ever," Prof Dempster said.

"It offers a clear pathway to bypass many of the supply chain risks associated with producing critical minerals from Earth."

"A total of 22,000 near-Earth asteroids have been identified to-date that are of interest from a space resources perspective.

"Asteroids contain minerals such as silicates, iron, nickel and other types of metals, and some are also highly enriched in platinum compared to the Earth's crust, making them attractive targets for platinum extraction.

"Earth's Moon is abundant in elements including iron, titanium, magnesium, aluminium, calcium, platinum, potassium, rare earth elements and phosphorus."

Prof Dempster also says the aim for the space industry over the next five years is to extract water from the Moon to convert into fuel. This fuel will then take the launch vehicle further to Mars and back.

University of NSW Phd candidate, Nicholas Bennett, performs cost analysis on space programs and says that the current projected costs of sending raw materials to the Moon's vicinity are between US\$20,000-US\$40,000/kg.

Mr Bennett says the future of mining in space will be small, remotely operated mines that generate big revenue streams, by selling to space-based enterprises.

"Right now, there is a market for propellant, valued at about US\$360M per annum, that could be supplied from the Moon, for

assisting geosynchronous satellites into orbit," he said.

"That would require the extraction of water for propellant from about 4000t of regolith or dusty sand per annum.

"It's almost the size a small mine but the market has been very steady, if unrecognised, over the last 20 years."

Mr Bennett says the world is now entering a period where space transportation costs are beginning to drop dramatically after remaining stagnant for a few decades.

"The cost of transporting equipment for the small mine to the Moon, in order to mine the regolith required for propellant, might cost US\$350m now but, with the reduction in transport costs over time, it could have a projected cost of US\$35m," he said.

"Although individual elements of the mining operation will be expensive relative to their terrestrial counterparts, the mine will be on a much smaller scale with much higher value output."

The Future

The space sector forms a significant part of the fourth industrial revolution, where the rise of digital technologies, artificial intelligence, robotics, the Internet of Things (IoT), 3D printing, genetic engineering, quantum computing and other technologies merge into our physical, biological and everyday worlds.

SpaceX founder, Elon Musk, says the company's model of reusability will drive down the cost of space access through reusing and reflying the most expensive parts of the rocket. Musk also believes that, in his mission to make mankind multiplanetary, we will see the creation of the first human colony on Mars in his lifetime.

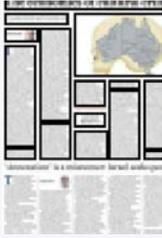
Japanese lunar exploration company, ispace, will begin sending its small and lightweight rovers to the Moon from 2023 for surface exploration and to find a site for a future manned Moon base.

The company's 2040 vision is to have 1000 humans living on the Moon in a self-sustaining lunar city called Moon Valley with 10,000 visitors every year.

Mankind is pushing ahead with space exploration in a global concerted effort to search for minerals and new life to make the human species sustainable and increase our likelihood of survival beyond Earth. **AMR**



An artist's impression of the first human base on Mars.



26 JUN, 2020

The economics of cultural cringe

Sydney Morning Herald, Sydney



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The economics of cultural cringe

With the overhaul of universities, there is a profound sense that Australia is not up to cleverness.

Thomas Keneally


The head of the great viper of neo-conservative economics has been rather hidden in the sudden COVID-19 array of pump-priming policies from the Prime Minister and Treasurer. But one minister has a scheme to save the universities. Many, from the Arts Alliance to professional organisations in the humanities, have appealed for a rethink. For the minister is no knuckle-head, is himself an arts graduate and has two masters degrees in such areas as international affairs and trade.

A rethink may have to come when the legislation hits the Senate, but it's not coming now. At the press club last week it seemed Dan Tehan knew what he was doing. "We are trying to encourage students to go in those areas where we know [the demand for] skills to be."

Now it seems to have little efficacy to say, "Man doth not live by bread alone", or to observe that neo-conservatives know the price of everything and the value of sweet Fanny Adams. All, all true, I would say. But not under neo-conservative economics. The universities are not a public resource producing ideas through research but a business providing vocational training. And the business is in great trouble.

Frank Bongiorno, professor of history at the ANU, wrote in *The Monthly* of the possibility of an agenda beyond the economic here. "It is hard not to see a measure of etiological purpose in Tehan's

package: it is juicy, red meat to a Coalition base who love nothing better than the government telling humanities students that if they want to indulge in wankery they can do it at their own expense."

At a price increase of 113 per cent in fact. Pretty tough on the film and sound production kids at UNSW who lately made a professional-level mini-series. Some of them would certainly shine in television dramas of the future if the ABC were not being starved for production money.

Pretty tough on the kids in the poetry program at Sydney, under brilliant teachers. "A poem is a small pot that carries mystery into the world," says a website there, God bless it. If any mystery gets carried into the world in future, it'll be at 113 per cent mark-up.

A friend of mine, a splendid poet, Eileen Chong, graduated that course and is laying down a body of work which, like the great Judith Wright's, will coruscate in the world of kids not yet born. Just another poet. Like those deadbeats W. H. Auden and Robert Lowell, keeping to the corner and legislating the world to us in their bursts of lightning. I think of the writers at UTS under the prodigiously skilled Debra Adelaide. I wouldn't be sending any ship to Mars without some of these kids on it.

History is a big sign of contradiction in the humanities, of course. It used to be OK when it dealt with pre-European occupation in a chapter, then went on to cover

convict transportation, then – with grateful sighs – the finish of all that and our redemption by hitting-above-our-weight instances of invention, innovation, the maturing of society, Bradman's batting average (and a glorious thing it was!), participation in foreign wars.

The problem arose that some of our historians began to concentrate not on hitting above our weight but on where some of the blows had landed. As well as that, our settler history seemed increasingly minuscule in scale compared with

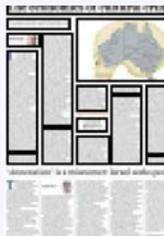
the ever-expanding so-called pre-history provided for us by anthropologists and palaeontologists. And those lefty historians made a great deal out of that – no one more than Henry Reynolds, that abomination in the eyes of the right.

I wonder what the Coalition thinks when it sees *Four Corners* explore the quest for a COVID-19 vaccine. Tehan wants more kids

doing science, but researchers on that broadcast uniformly said they'd be much further along if they did not have to spend so much of their time lining up for scarce research money. So if we want to increase the number of scientists, what about the news they might bring us? What about the CSIRO scientists who were warned off speaking on climate change, and were sacked when they

did? Jeez, Dan, get your rifle. There must be Marxists loose in the bottom paddock at the CSIRO!

As for future jobs, do we trust this



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Sydney Morning Herald, Sydney



government to know where they'll be? It is a government, after all, that promoted a 1700 jobs gain in constructing and running a coal mine in the Galilee Basin as if it represented employment nirvana. No one begrudges people jobs where they're needed. We just want people to have jobs that last.

I find a meeting of minds between market economics and an abiding sense of cultural inferiority here. We've had it shown to us by COVID-19 that our manufacturing base is too narrow. But there is a profound sense that we are not up to cleverness. We are blessed by massive resources, so we don't need to manufacture clever things like medical equipment and quantum applications. Like a true colony we are happy to import refined goods and culture, as in the past. Our dreams and visions are extraneous to need in an economics which cannot define their value.

Gary Becker, one of the Chicago economists from whose well Tehan

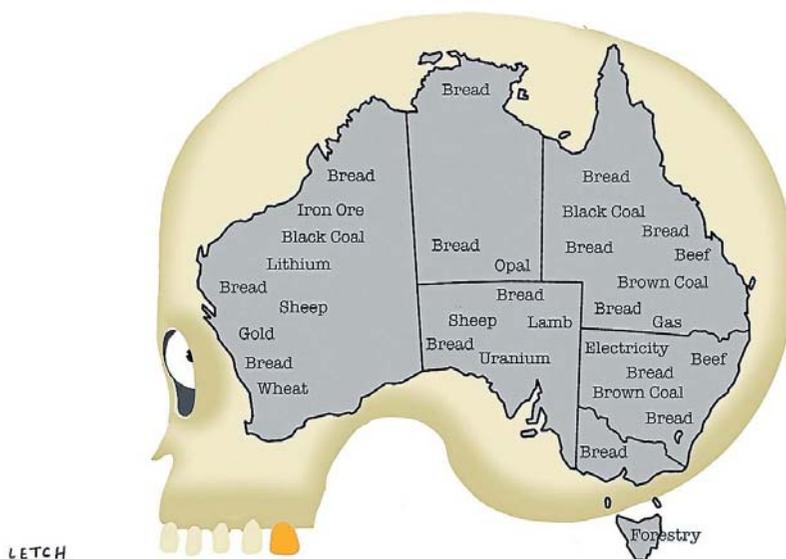
has drunk deep, has defined marriage in terms of comparative advantage as a contract in which two parties maximise their utility. Really? Really? Whatever happened to, "Had we but world enough and time, This coyness, lady, were no crime." Much neo-conservative economics fails to capture the essence, and thus decides to overcharge it for being what it is.

In 1939 A. D. Hope described Australia as the Arabia Deserta of the human mind, where second-rate Europeans pullulated timidly on the edge of alien shores. The new economics has driven us right back there and created ironies. Such as that it is easier to study Australian literature at the University of Harbin in Manchuria than at Sydney University. (Harbin is, by the way, a research university, Mr Tehan, with sophisticated biology labs and a rocket-launch pad.)

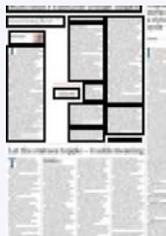
But for us, meantime, such glories have market economics delivered! And what glories are still to come? We shudder, we pray. We write.

Thomas Keneally is an Australian novelist, playwright and essayist.

It is easier to study Australian literature in Manchuria.



LETC H



26 JUN, 2020

Australia's cultural cringe lingers



Age, Melbourne

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Australia's cultural cringe lingers

There's more to being clever than vocational training, but the government won't have it.

Thomas Keneally



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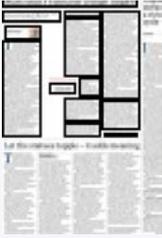
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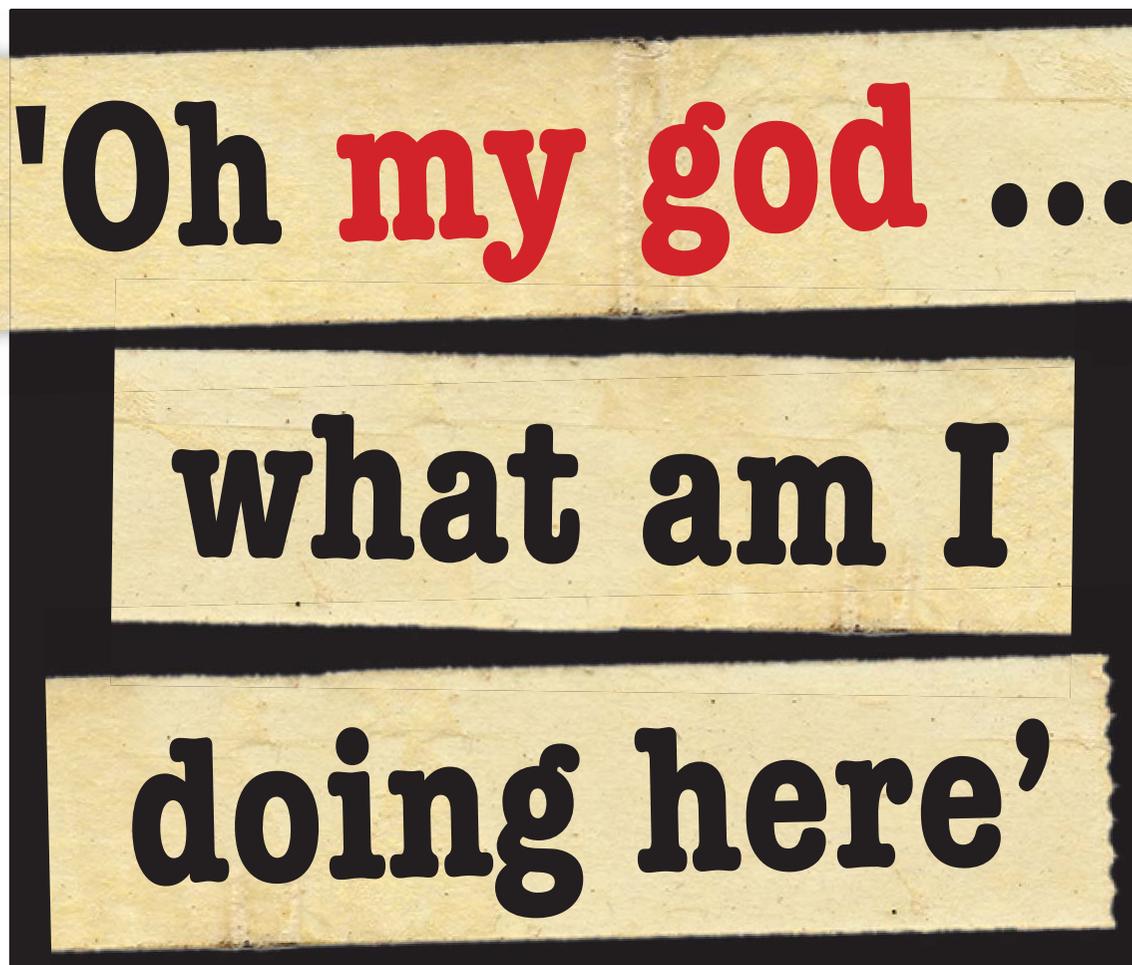
18 JUN, 2020

'Oh my god ... what am I doing here'



West Australian, Perth

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How a young woman was lured out of a domestic violence refuge only to be raped by ex-partner & allegedly his uncle

EXCLUSIVE CARLY LADEN
BROOME ADVERTISER

A Derby woman who was staying in a domestic violence shelter for protection from her former partner was gang-raped by her ex-boyfriend — and also allegedly by his uncle — for seven hours after being tricked out of the refuge centre.

The details of the horrifying ordeal emerged in the WA District Court last

week, when a 26-year-old man, who will not be named to protect the identity of the victim, was sentenced to nine years jail for unlawfully detaining her and sexually assaulting her three times.

The man's uncle will also go on trial for the incident next month.

The court was told last week the co-accused uncle allegedly called the victim

and requested that she attend his address while she was staying at the Derby Women's Refuge because of a domestic violence incident between her and her former partner several days earlier.

When the victim arrived at the house, she asked: "What am I doing here?" and the co-accused allegedly told her he was going to have sex with her all day, prompting the



18 JUN, 2020

'Oh my god ... what am I doing here'



West Australian, Perth

Page 2 of 2

victim to run into the bathroom and lock the door.

Her former partner told the victim to come out or he would stab her, prompting the victim to leave the bathroom when she was taken into a bedroom, where a table was pushed against the door to prevent her from escaping.

The offender and alleged co-accused held the victim on the bed, ripped off her shorts and underwear, and proceeded to simultaneously rape her twice, the court was told.

After the second sexual assault, her former partner told the alleged co-accused to leave the room and he raped the victim for a third time before taking her to the bathroom and forcing her into the shower.

It was also understood the victim had been punched

several times in the right side of her face before each sexual assault. After several hours, she managed to run from the two men — picking up a pair of men's boxer shorts to cover herself — and ran down the street until she saw a man she knew and told him to contact police.

In submissions, the convicted man's lawyer Neville Barber told the court the man felt disrespected by the victim and it was exacerbated by the heavy use of alcohol with the alleged co-accused the night before, though there were differing explanations behind why he felt disrespected.

State prosecutor Nathan Fawkes told the court the incident was a "planned and quite brutal attack on a vulnerable young woman by two men who completely overpowered her with both physical force and threats of violence and actual violence".

In sentencing, District Court Judge Ronald Birmingham told the man the incident was "exceptionally serious sexual offending that has no place in any civilised society".

"Whether you and the co-accused had got your heads together and formulated a plan, I can't say, but what did occur was the simultaneous violent abuse of this young lady for a number of hours in a most degrading way," he said.

"You encouraged and joined in her abuse with the co-accused.

"That you both behaved in this way shows a level of depravity that some might reasonably say has no place in any civilised society or culture."

Judge Birmingham also told the man that consuming a significant quantity of alcohol the night before was "not an excuse for such depraved conduct".

The man will be eligible for parole in August 2026 when he has served seven of the nine-year jail term.

His alleged co-accused is set to appear for a trial listing hearing on July 21.

According to WA Police statistics, there were 22 cases of sexual assault in the Kimberley District in August last year, up 120 per cent from the same time in 2018.

However, the number of sexual assault cases has been declining in 2020 up to March. In August 2018, refugees and safe houses supporting women and children in WA's North West met for the first time to discuss issues and strengthen a pathway between each centre.

During the meeting, Salvation Army Capt. Naava Brooks said one of the main issues that came up was that

domestic violence was over-represented in the North West, but the voice of frontline services were often under-represented on State issues.

At the time, Prevention of Family and Domestic Violence Minister Simone McGurk said there was an opportunity for an exchange of information and experience across the refugees.

"We do need to find ways in regions where people can come together and support each other, exchange information," she said.

"I would encourage that ongoing communication, (but) there is a real challenge in these large regional areas."

A feasibility study on domestic violence service hubs in regional WA was also conducted at the time by representatives of Curtin University.

While the hubs were an election promise made by the McGowan Government, the study found a number of issues arose from having a hub based in the Kimberley or Pilbara.

However, in November last year, the McGowan Government unveiled sweeping family violence law reforms in a bid to stop the "epidemic" of family violence in WA. The reforms were announced two months after Attorney-General John Quigley's landmark decision to give Kimberley woman Jody Gore mercy and free her from serving a life sentence for murdering her abusive ex-partner.

Under the reforms, perpetrators who commit three or more acts of family violence against the same partner within 10 years could be charged by police and jailed for up to 14 years.



01 MAY, 2020

Space enthusiasts get ready to rock



Int Press - UK, UK

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RESEARCH FOCUS

Space enthusiasts get ready to rock

SCOTTISH scientists are turning their eyes to the skies to track meteorites – smaller, less threatening variations of their asteroid cousins – before they land on UK soil and want volunteers to help recover the space rocks wherever they fall.

The UK Fireball Network, led by researchers from the University of Glasgow and Imperial College London is setting out to place 10 cameras across the country to catch glimpses of the spectacular natural firework displays caused when meteoroids enter the Earth's atmosphere.

It is part of a wider network called the Global Fireball Observatory operated by researchers in Australia at Curtin University.

Earlier this year in February, the network's cameras filmed their first

Glasgow academics call for volunteers to help collect meteorites as part of UK Fireball Network

fireball, which dropped meteorites into the North Sea.

While those are impossible to recover, the network team expect that future sightings that fall on the UK landmass can be properly triangulated to determine a landing area and send out a search party to find future meteorites.

Dr Luke Daly, of the University of Glasgow's School of Geographical and Earth Sciences, is one of the leaders of the UK Fireball Network. He said: "Meteorites provide scientists with invaluable insights into

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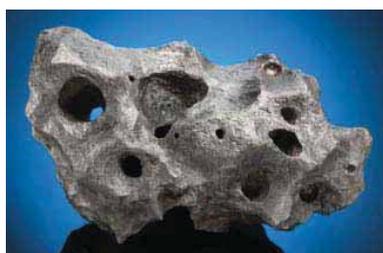
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SKYFALL: Volunteers will help scientists search for traces of meteorites which have been tracked on camera.

“Camera networks like ours, and those of partner organisations like UKMON and SCAMP, give us a great chance to capture fireballs on multiple cameras.

“Together we are building an integrated pipeline to use all the data from all the networks to track fireballs called the UK Fireball Alliance.

“It was very exciting to capture our first images of a fireball caught by two of our observatories, although it was obviously disappointing that the material it dropped fell into the sea.

“When we do catch sight of a fireball dropping meteorites on land, we’ll need the help of volunteers to help comb the countryside to find them, so anyone interested in making a little bit of history by getting involved can follow us on Twitter at @FireballsUK.”

other planets and our solar system. A good deal of what we know about the surface of Mars, for example, comes from analysis of chunks of the planet which were blasted off its surface by asteroid impacts millions of years ago and drifted in space before falling to Earth.

“Meteorites enter our atmosphere all the time, but the UK hasn’t had a great track record of finding them – in fact, it’s been nearly 30 years since one was last seen dropping into a back garden in Glatton in Cambridgeshire, and more than 100 since one was observed in Scotland.

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07 APR, 2020

Two decades of success and growth

Adelaide Advertiser, Adelaide

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Two decades of success and growth

VALERINA CHANGARATHIL

A FOCUS on providing specialist complex engineering services globally has helped Adelaide-based Nova Group grow from two founders to 600 employees in two decades.

While the 20-year milestone this year comes with new COVID-19-related challenges, the business, which is projecting more than \$200 million in 2019/2020 revenues, has taken time to take pride in the growth and innovation over that period.

“What has impressed me throughout my 17 years at Nova, has been the incredibly smart and dedicated people that make it fun to come to work,” said group chief executive Greg Hume.

From its early days of offering flight testing services, the company founded by SA chief entrepreneur Jim Whalley and Peter Nikoloff, today works to solve complex problems for the Australian Defence Force, the UK Ministry of Defence, Royal Norwegian Air Force

and the Republic of Singapore Air Force, among other clients. More than \$20 million has been invested on eight acquisitions to expand into the UK, Europe, South East Asia and New Zealand.

In Australia, Nova Group is one of four companies in the ADF’s Major Service Provider (MSP) consortium, providing large integrated support contracts to defence over ten years.

It has founding partnerships with SA-based SMART-SAT Co-operative Research Centre (CRC) and WA’s Australian Remote Operations for Space and Earth (AROSE).

“With a solid foundation in the defence markets in Australia and the UK, and a footprint in space, transport and energy, I am very proud to be exporting Australian capability and know-how to the world and look forward positioning for our next phase of growth,” Mr Whalley said.

“I truly believe it’s the scientists, mathematicians and engineers of the world that will be instrumental in solving

the really complex challenges nations and governments are facing like national security, climate change and urbanisation,” he said.

In a world dominated by economic upheaval caused by the COVID-19 pandemic, the business is committed to sustaining operations while being proactive and undertaking business modelling against a number of scenarios.

“Infection control meas-

ures have already been implemented across the business which include the cancellation of a number of training courses and internal business and social gatherings through to April,” Mr Hume said.

“We continue to monitor the situation and will introduce additional measures as required to protect our employees and clients.”

At this stage, 20-year celebrations are set to coincide with its all-staff annual conference in August, where Nova’s employees will dress up in safari suits, some gold-coloured, and kaftans to mark the occasion.

NOVA GROUP'S AUSTRALIAN PROJECTS

Air Warfare Destroyer (AWD)

Over the last 12 years, more than 60 Nova engineering, project management and operational consultants have contributed to the AWD Program in the areas of test and activation.

SEA 1000 Future Submarines

More than 25 Nova consultants have contributed to the future submarine program including supporting naval architecture, systems engineering, seaworthiness, configuration management, and asset management.

P8 Poseidon

Nova has been associated with the P8 program over the past 4-5



07 APR, 2020

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Adelaide Advertiser, Adelaide



years.

IGS Network

Nova's owned and operated sites provide ground segment services to satellite owners and operators. The satellite ground segment facilities will be strategically located around Australia to meet the needs of current and future Low Earth Orbit (LEO), Medium Earth Orbit (MEO) and Geostationary Orbit (GEO) small satellite missions.

Adelaide Desalination Plant

About 30 Nova employees have provided project management and contract over five years.

E-7A Wedgetail

Nova has provided test and evaluation services in support of the Wedgetail E-7A since 2011.

C17A

Nova was an integral part of accepting all C-17 aircraft into

service during the various acquisitions.

PC21

Nova continues to support Lockheed Martin for the delivery of the Pilot Training Systems.

Air Traffic Control

Nova has been an integral part of Hensoldt's delivery of AIR5431 Ph2, providing both the in-country team and facilities for the Hensoldt PMO, and delivering the tower and civil works at nine sites around Australia.

F-35A

Nova has supported the verification and validation portion of the F-35A introduction into service, through designing the Australian Effectiveness Test Program, and assisting in enabling the Suitability Test Program.

Land 121 Phase 4

The Nova team has assisted Thales with the vehicle verification and validation (V&V) program across various phases of Land 121 Phase 4.

Parramatta Light Rail Stage 1 (Active project)

About 13 Nova staff have been providing systems integration,

systems assurance and safety assurance for current design phase since February last year.

Newcrest Mining Autonomous Systems

Strategic advice and engineering services for the vision, technology road map and implementation for targeted world-first autonomous underground gold mining.



07 APR, 2020

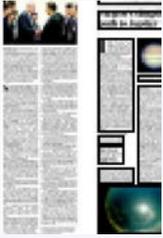
Two decades of success and growth



Adelaide Advertiser, Adelaide



MILESTONE: Former fighter pilot and Nova Systems chairman Jim Whalley.



03 APR, 2020

Meteor's slingshot path to Jupiter

Australian Financial Review, Australia



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Meteor's slingshot path to Jupiter

Astronomy The fireball that grazed Australia's night sky in 2017 was unique, writes Joshua Sokol.

It's not unusual for meteors to illuminate night skies over southwestern Australia's desolate landscapes. But the fireball of July 7, 2017, was different. For a full minute and a half, it just kept burning and burning and burning. The object carved a trace of light as wide across as Texas, then faded.

Many meteors disintegrate in our atmosphere, or slow down and crash into the soil. But after its light show, this one kept going, departing our planet with a celestial "thanks, but no thanks".

Next stop: Jupiter, at the beginning of 2025. And after tangling with that giant planet's gravity, it will most likely be ejected into interstellar space, says Patrick Shober, a graduate student at Curtin University in WA, who led a team that studied the event.

The July 2017 event is known as a grazing fireball, a rare type of meteoroid that hits Earth's atmosphere at a low angle, then skims like a skipping stone on a lake.

Some are legendary, like 1783's Great Meteor, which streaked past England and over continental Europe, or the incorrectly named Great Comet of 1860, painted by the Hudson River School artist Frederic Church and which inspired a poem by Walt Whitman. The first grazing fireball to be studied by modern science zipped over North America for 101 seconds in 1972.

But few spend this long dipping into the atmosphere. And not one has ever been as well studied. It might have gone unseen if not for the Desert Fireball Network, a set of observatories that span a vast, sparsely populated swath of Australia. The network's goal is to fetch meteorites that land in the desert. But in this case, there was nothing to retrieve.

Shober's team estimates the rock responsible for the event entered the atmosphere weighing 59 kilograms and measuring only about a foot across. But it blazed so brightly for so long because it travelled on a shallow path and moved at a blistering pace of about 16 kilometres per second. Near its

lowest point, still about 58 kilometres above the surface of the Earth, a chunk broke off and burned up.

By triangulating its trajectory from multiple positions, Shober traced the fireball back to the asteroid belt between Mars and Jupiter, his team reports in a paper that will be published by *The Astronomical Journal*. As it reached Earth, the planet gave it an extra kick.

"It gained orbital energy from the close encounter the same way a space mission might use a slingshot manoeuvre," he says.

That sent it careening toward Jupiter, giving it an elongated, outbound orbit more like a comet's than an asteroid's. Its path interests astronomers, who can't study anything this small through a telescope.

The interplanetary rock-passing routes that astronomers usually study "are like American football: Neptune to Uranus, Uranus to Saturn, and then to Jupiter, and they're sort of passing things forward," says Erin Ryan, a planetary astronomer at the SETI Institute in California, who was not involved in the study. "But in this case, it's kind of more like rugby, where everything is getting passed backwards."

Shober, now working to understand just how often our planet might assist in these passes, says the same interplanetary rerouting might also occur around Mars, Venus and Mercury. As for the Australian meteoroid, his simulations suggest that repeated encounters with Jupiter will most likely have kicked it out of the solar system within half a million years.

That leaves astronomers waiting for the next grazing fireball. They're adding more eyes to the hunt with a newly formed Global Fireball Observatory that knits together the effort in Australia with projects elsewhere.

Cameras will soon be scanning the skies over 2 per cent of the world's surface. **R**

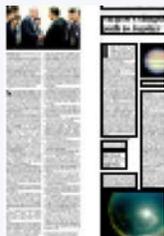
THE NEW YORK TIMES

Repeated encounters with Jupiter will most likely have it kicked out of the solar system within half a million years.

likely have it kicked out of the solar system within half a million years.



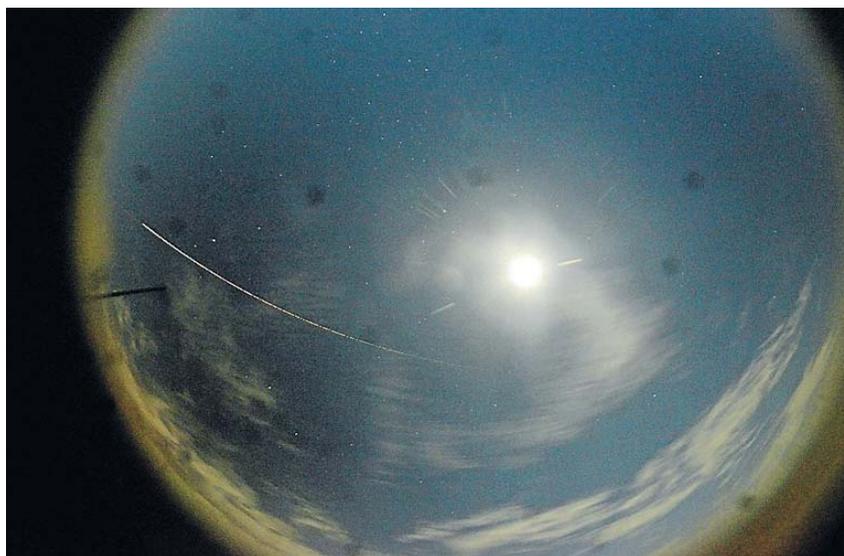
Next stop. Jupiter, above, is where the grazing fireball, below, is next headed.
PHOTOS: PATRICK SHOBER, AP



03 APR, 2020

Meteor's slingshot path to Jupiter

Australian Financial Review, Australia





27 MAR, 2020

PREMIER'S SCIENCE AWARDS 2020 APPLICATIONS OPEN

West Australian, Perth



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PREMIER'S SCIENCE AWARDS 2020 APPLICATIONS OPEN

The State Government is calling for the nominations of Western Australian STEM superstars for the 2020 Premier's Science Awards.

The awards celebrate the achievements of WA's leaders and high achieving up-and-comers in STEM.

Award categories include Scientist of the Year, Woodside Early Career Scientist of the Year, ExxonMobil Student Scientist of the Year, Chevron Science Engagement Initiative of the Year and Shell Aboriginal STEM Student of the Year.

Premier Mark McGowan encouraged members of the STEM community to apply for the awards and help uncover

is central to the advancement of our community.

"In Western Australia, we are lucky enough to have some of the brightest STEM minds around the world working to better our community," he said.

"Their achievements and contributions deserve to be recognised and promoted.

"By highlighting their contributions, we hope to encourage Western Australians

from all walks of life and highlight the importance of learning STEM skills for the jobs of the future."

Professor Phil Bland of Curtin University and Professor Robert Newton of Edith Cowan University were joint winners of the 2019 Scientist of the Year Award for advancing the understanding of the solar system and improving the quality of life for cancer survivors respectively.

The awards are sponsored by Chevron, ExxonMobil, Shell and Woodside and supported by the state's five universities.

Applications close on April 29, 2020. For information, visit www.jtsi.wa.gov.au/scienceawards.

the wealth of talent in the state across research, tertiary studies and community engagement.

"Science, technology, engineering and mathematics are vital in growing our economy and creating the jobs of the future," he said.

"These awards acknowledge the exceptional achievements of the State's leading scientists, and celebrate the often life-changing contributions they make to the Western Australian community."

Winners will be announced at a ceremony during National Science Week in August, with the Scientist of the Year taking away \$50,000 and other category winners each receiving \$10,000.

Nominations are also open to induct a prominent Western Australian scientist into the WA Science Hall of Fame, which will also be announced at the August awards ceremony.

Science Minister Dave Kelly believes STEM



27 MAR, 2020

ONE STEP CLOSER TO SPACE



West Australian, Perth

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ONE STEP CLOSER TO SPACE

A recent announcement that Perth will be home to a national space entity could create as many as 1500 new jobs in the field in Western Australia in five years' time, according to professional services firm PwC.

The State Government announced in February that Perth would be home to the headquarters of Australian Remote Operations for Space and Earth (AROSE), a national consortium created to translate locally developed robotic and remote technologies for space exploration.

An industry-led, not-for-profit consortium overseen by founding partners Woodside, Fugro, Nova Systems, Curtin University and The University of Western Australia with a \$1.5 million investment from the State Government, AROSE is expected to position Perth as a global centre for remote operations in space and allow WA industry and universities to bid for space exploration projects.

"The McGowan Government is seizing the opportunity to take part in the new generation space race to deliver on our commitment to diversify the economy and create WA jobs," Minister for Science Dave Kelly said.

"Our investment to make Western Australia the home of AROSE is set to turn us into a global centre for remote operations in space."

WA's resources industry is already an innovator in autonomous and remote operations, something Mr Kelly said the state could leverage to its benefit in the space context.

"As the world-leader in autonomous and remote operations and a participant in the space industry for more than 60 years, WA is primed and ready to contribute to the

Australia-NASA Moon to Mars partnership," he said.

"What AROSE will do, is take the world-class technology already utilised in WA and adapt it for remote operations on the moon, Mars and beyond.

"In doing so, it will unlock new opportunities for WA businesses to participate in global space supply chains and ensure local businesses secure contracts in international space initiatives such as NASA's Lunar Gateway and Artemis project.

"By leveraging our expertise, this consortium will see WA take part in the global space economy, which was valued at US\$350 billion (\$572 billion) in 2018 and is expected to grow to US\$1.1 trillion (\$1.6 trillion) by 2040."

PwC economic modelling suggested remote operations opportunities derived through AROSE would improve the state economy by \$196 million annually and create 1540 jobs in WA.



27 MAR, 2020

ONE STEP CLOSER TO SPACE



West Australian, Perth

WA IS PRIMED AND READY TO CONTRIBUTE TO THE AUSTRALIA-NASA MOON TO MARS PARTNERSHIP.



(L-R): Federal Member for Perth Patrick Gorman, AROSE Steering Group Chair Russell Potapinski, Minister for Science Dave Kelly and former NASA Astronaut Pamela Melroy



25 MAR, 2020

NASA eyes WA

Australian Financial Review, Australia



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NASA eyes WA

West-side unis

Ruth Callaghan

West Australian research teams are using the same technology that keeps mines running at a distance to push into space, with the help of industry partners already invested in remote engineering.

Curtin University and the University of Western Australia have recently launched AROSE – the Australian Remote Operations for Space and Earth consortium – with the partnership including the universities, state government of Western Australia and industry partners Woodside, Fugro and Nova Systems.

Curtin's contribution to the program is the development of CubeSats: tiny but fully functioning satellites that West Australian Scientist of the Year Professor Phil Bland describes as “about the size of a small sandwich”.

Each CubeSat has all the systems required to operate, including the power, computer, steering and communications, making it highly efficient and lightweight — about 3kg compared with an ordinary satellite's seven tonnes.

The university expects to send its lightweight CubeSat to hitch a ride on a resupply rocket headed for the International Space Station this year, and has partnered with the European Space Agency.

Unlike many CubeSats, Curtin's is the result of lots of testing, to understand the limits of the technology.

The work of the consortium and its partners is expected to improve WA's economy by \$196 million a year within five years and create more than 1500 jobs in the state.

“NASA is really interested in what Western Australia can do in terms of remote operations,” he said. **AFR**

AFRGA1 S003



19 MAR, 2020

Uni explores final frontier

Stirling Times, Perth



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Uni explores final frontier

CURTIN University is preparing to launch its first satellites into orbit.

The university has been working with Japanese space start-up company Space BD Inc to develop two CubeSat miniature satellites.

The satellites - named Binar-1 (1U CubeSat) and Binar-2 (3U CubeSat) - will be launched into orbit from the Japanese Experiment Module Kibo on the International Space Station.

The satellites, which have

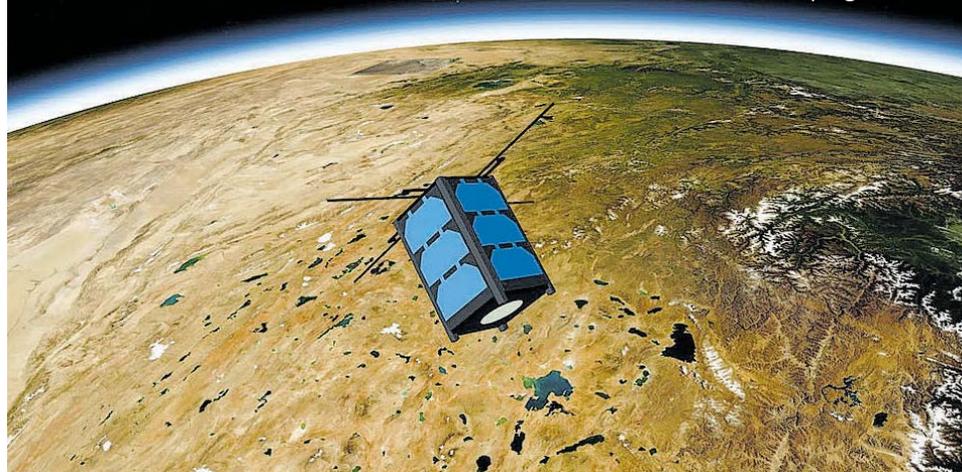
been in development since 2018, will be the first pair of satellites launched from Curtin University and from Western Australia.

The project is led by Professor Phil Bland at the Space Science and Technology Centre at Curtin University, working with a team of 12 staff and student engineers.

"The Binar CubeSat Bus is around 10cm by 10cm by 2.5cm and is about the size of a rather small sandwich," Prof Bland said.

"The power, computer, steering and communications are all on a single, eight-layer printed circuit board, which means there is more room for what the satellite is carrying: a camera that will capture beautiful images of Australia taken from orbit."

The Binar small satellite technology will also be used as part of the recently launched AROSE consortium to deliver solutions that will benefit the Australia-NASA Moon-to-Mars program.





14 MAR, 2020

O-Week censors excel themselves

Weekend Australian, Australia



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O-Week censors excel themselves

The most brazen opponents of free speech are those who control student unions

JANET ALBRECHTSEN



“Free speech crisis? What crisis?” Uttered in freaky unison, this frequent denial from university vice-chancellors has allowed them to resume normal programming.

That consists of VCs putting their heads in the sand rather than confronting those trying to nobble intellectual diversity on campus. It includes VCs sending long emails about how proud they are of their diversity programs, with no sense of the irony that diversity of opinion is not part of that program. And it means VCs devoting more energy to attracting foreign students than defending freedom of expression.

How much longer can university leaders ignore the accelerating rhythm to raids on free speech at Australian universities? Today, the most brazen opponents of free speech within universities are those who control student unions. Funded by other students’ money, the leaders of student unions use their union muscle to control what other students hear, read and learn. Not content with running social events, defending students’ rights or holding university management to account, a small group of students have assumed a new role as campus censor. And they imagine that if they provide a band and a BBQ, they can flex their political arm without reproach.

On Tuesday afternoon, the stu-

dent association at Melbourne’s Monash University, which runs Orientation Week stalls, BBQs and other events aimed at offering students “a diverse introduction to Monash”, rejected an application from Generation Liberty to be part of the program’s activities.

Generation Liberty is a program run by the Institute of Public Affairs for young Australians, including university students, introducing them to ideas, arguments, and perspectives that they may have missed at school or university. The program is a big hit; its growth, especially over the past 12 months, points to a real hunger for knowledge not addressed by schools and universities.

In an email, events officer Michele Fredregill from the Monash Student Association told fellow Monash student Luca Rossi, a Generation Liberty co-ordinator at the university: “We have carefully reviewed your booking request and discussed it internally. Regretfully we must decline your booking application on the basis of our terms and conditions. Generation Liberty’s positions on issues such as climate change do not align with MSA’s.”

This is what happens when zealotry is threatened by facts. There is nothing in the terms and conditions to justify denying Generation Liberty’s application to be part of O-Week, which kicks off on Monday.

In any case, a student union, or any other body, cannot use “Ts & Cs” to contract out of obligations under Victoria’s Equal Opportunity Act 2010 not to discriminate against a person on the basis of their political beliefs or activities.

More sinister is MSA’s reference to not aligning with “Generation Liberty’s positions on issues such as climate change”. Neither Generation Liberty nor the IPA has a “position” on climate change. The 77-year-old research organisation and its younger offshoot, known as Gen Lib, produce

research based on facts: the rest is left up to who is reading, listening or watching IPA papers, podcasts or YouTube videos.

Rossi, 19, has hit back at this MSA censorship. “As a student at Monash, it is insulting for your student association, who supposedly represents you, to basically say you can’t be trusted with your own thoughts, we have to think for you.”

The Monash law/arts student features in a series of Gen Lib YouTube videos launched late last year called What I Wasn’t Told.

At last count, What I Wasn’t Told ... About Climate Change had attracted just shy of 200,000 views. The video includes links for the curious to read the research that justifies every statement.

Rossi says had Gen Lib been given the chance to join O-Week,

“we would have set up a stall, handed out some stickers and badges, and if some students want to have a chat with us, then we give them the idea of freedom. And that’s it.”

What exactly are the office-holders of the student union at Monash afraid of? That some inquisitive students might grab a vegan burger from the MSA BBQ, then wander over to the Gen Lib stall and pick up a free sticker carrying the Jordan Peterson quote “In order to be able to think, you have to risk being offensive”?

Or maybe they fear the badge carrying these words from Ricky Gervais: “Just because you’re offended doesn’t mean you’re right.”

Another badge says: “Make Orwell Fiction Again.”

The only steadfast position taken by Gen Lib is a belief in open inquiry and students thinking for themselves. Clearly this belief in intellectual diversity does not align with the MSA.

Rossi, one of 16 Gen Lib campus co-ordinators at 15 Australian universities, is frustrated by the lack of transparency, too. “It’s shady,” he says, alluding to the decision by



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O-Week censors excel themselves



Weekend Australian, Australia

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MSA president James McDonald to fob it off as an “operations issue” in answer to Rossi’s request for more details as to why the student union rejected Gen Lib’s application.

“It’s basically as little transparency as possible: ‘You’re not allowed to be here because we don’t agree with your views. Now please go away,’” says Rossi.

Alas, passing the buck about incursions into intellectual diversity happens at the highest levels about an issue that should be embedded in the DNA of every serious university.

When the student guild at the Queensland University of Technology refused Gen Lib’s application to be part of Market Week last month, vice-chancellor Margaret Sheil learned about it from the media and responded by saying QUT was committed to “a variety of contesting viewpoints”.

But when this asserted belief in contesting viewpoints has not

filtered down to the student guild, it is clear that intellectual diversity is not embedded in QUT’s culture.

The dirty little secret is that student unions are baying campus censors. And it takes only a handful of students who control events such as Market Week at QUT and O-Week at Monash to undermine intellectual diversity for the rest of the student population. IPA research compiled last year revealed that 59 per cent of students believe they are sometimes prevented from voicing their opinions on controversial issues by other students.

For student unions, freedom of speech is a controversial issue.

It is a stark failure of logic and leadership when VCs try to dodge responsibility by saying student unions are “independent” from university administration. Student unions hold functions on campus, they are meant to represent other university students, and student unions are partly funded by compulsory student services and amenities fees paid by every student, except international ones.

Who then, if not university

administrators, will hold these student censors to account?

It is not unreasonable for VCs, acting on behalf of all students, to require students within student unions or guilds to commit, in practice, to freedom of expression,

open debate and intellectual diversity. That starts with O-Week activities.

Instead, there is a failure of accountability right up and down the line. Just over a week ago, new Tasmanian Liberal senator Claire Chandler questioned professor Nick Saunders, chief commissioner of the Tertiary Education Quality and Standards Agency, the body charged with holding universities to their part of the funding deal — universities receive federal funding from taxpayers in return for delivering intellectual inquiry on campus. Saunders said the regulatory body has no authority to rein in censorship by student unions.

Chandler tells Inquirer: “One of the real policy questions that

has to be answered here is: does a university’s obligation to promote free speech on campus extend to student unions ... given that these unions are getting funding from universities, through services and amenities fees that are compulsory?”

Of course it should. More than that, it is time to restart the battle over compulsory fees that prop up these student censors. Whereas the Coalition government abolished compulsory student unionism in 2005, the Gillard government reintroduced them in 2010 in the form of the services and amenities fee. Ten years later, student unions are using these compulsory fees to fund their censorship of ideas and people on campus.

Chandler, who is passionate about universities fostering genuine intellectual freedom to sharpen young students’ minds, says that if the model code recommended by former High Court chief justice Robert French in his review of free speech at Australian universities doesn’t capture obligations of student unions to free

speech, then this “gap” needs to be addressed.

Fill the gap, by all means, but a code will not necessarily change a culture.

I saw a similar problem up close as a member of the ABC board for five years. There was, and remains, a deeply embedded culture among journalists, producers and higher levels of the tax-funded media behemoth opposed to the intellectual diversity that is explicitly required under its charter.

Internal codes which purported to commit the ABC to their legislative charter made no difference up against that culture. Instead, even egregious cases of bias by journalists were routinely met with management claims that editorial policies are too vague, dodging any finding of a breach of the policy. Management would suggest the ABC board redraft the policies, a useless “make work” exercise, to remove areas of grey.

When another glaringly obvious episode arose of bias, often from the same journalist — recidivists were not hard to find — the board would receive the same response. It’s all rather grey so we can’t do anything. In other words: go away, our ABC culture trumps a code and even a legislative charter mandating intellectual diversity.

The same scenario will unfold across Australian universities. Even the most beautifully crafted free-speech code will count for nothing until there is meaningful cultural change.

And that will not happen until the Morrison government moves to reduce funding to universities that do not implement cultural change.

Over to Education Minister Dan Tehan to walk the talk, remembering too that academic freedom was thrown under the bus when James Cook University decided to sack professor Peter Ridd on a bogus code of conduct claim. JCU has committed to spending hundreds of thousands of dollars to defend that action in courts, rather than defend intellectual diversity.

In the meantime, we are left to ponder the state of a higher



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O-Week censors excel themselves



Weekend Australian, Australia

education where codes, laws, regulators and the media are needed to remind VCs and student unions about the core business of a university.

Janet Albrechtsen is chairman of the Institute of Public Affairs.

It takes only a handful of students who control events such as Market Week and O-Week to undermine intellectual diversity for the rest of the students



'We would have set up a stall, handed out some stickers and badges, and if some students want to have a chat with us, then we give them the idea of freedom. And that's it': Monash student and Gen Lib co-ordinator Luca Rossi has decried the student union's decision to block the group from O-Week



14 MAR, 2020

O-Week censors excel themselves



Weekend Australian, Australia



Generation Liberty campus co-ordinator Laura Glase, right, at a stall at the University of Sydney. The group has been blocked from similar activities at Monash University



05 MAR, 2020

ASTEROID COLLISION CRISIS

Daily Telegraph, Sydney



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ASTEROID COLLISION CRISIS

AN asteroid possibly measuring up to 4.1km with potentially “global effects” will pass close by Earth next month, according to NASA.

The space agency’s database which tracks objects that could collide with our planet has revealed an asteroid named 52768 (1998 OR2) will orbit past Earth on April 29.

Researchers estimate the asteroid’s diameter to be between 1.8km to 4.1km, one of the largest asteroids to pass

by in the next few months. 52678 (1998 OR2) is classified as a “potentially hazardous object” because it crosses Earth’s orbit and a collision will “cause global effects,” according to initial NASA discovery reports in 1998. The asteroid will rocket past at over 30,000km/h, coming within around 6 million km of Earth but isn’t expected to hit us. Curtin University Professor Phil Bland said chances of Armageddon were slim.



04 MAR, 2020

Locals help launch WA space program

Canning Examiner, Perth



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Locals help launch WA space program

• By Geraldine Alphonse

Our very own rocket man continues to contribute to the world's space science with two mini satellites to be launched into orbit in coming months.

Rossmoyne resident and Scientist of the Year 2019 Phil Bland said he would never have thought when growing up in the United Kingdom that he would be building a spacecraft in Western Australia.

Mr Bland has been leading the CubeSat project at the Space Science and Technology Centre at Curtin University along with 12 staff and engineering students.

Last year Mr Bland and his team were able to complete one mini satellite and are now in the process of developing a second prototype that will be sent into space six months after the first one.

The first launch will take place later this year and will be possible thanks to Curtin University's collaboration with the Tokyo-based start-up company Space BD Inc who will work together to launch the CubeSats from the Japanese Experiment Module Kibo on the International Space Station (ISS).

Space BD's engineering team will provide Mr Bland's team with technical integration services at each stage of the proj-

ect including safety assessment reviews, the launch to the space station and deployment of the satellites from the Kibo module on the ISS.

The full orbital launch will allow the mini satellite to do a complete round track in space with the aim of capturing images and essential data that will help NASA and Australia's planetary science.

These satellites will be the first pair of satellites launched from Curtin University as well as the first from Western Australia.

Mr Bland said the small satellite technology will be used as part of the recently launched AROSE consortium that brings together the best of Australian industry with the most advanced technology and leading Western Australian scientists to deliver solutions that will benefit the Australia-NASA Moon-to-Mars program.

"The good thing about this project is that we are building it ourselves and we can test it as many times as possible to develop the most efficient, resilient and reliable prototype," he said.

Mr Bland's ultimate goal is to have these mini satellites sent on a mission to the moon from NASA in the United States, within four to five years from now.

"I think for me it is tremendously exciting to be working in a project of this magnitude, with an incredible team that builds Western Australia's spacecraft," he said.

"To be part of and seeing an achievable path to send a spacecraft to the moon that will help Australia and NASA I think is an inspiration to everyone.

"The space industry in Western Australia continues to rise and engineering students can now contribute to the world's space industry and be part of something so special."



04 MAR, 2020

Locals help launch WA space program



Canning Examiner, Perth



Scientist of the Year 2019 Phil Bland is leading an orbital mini satellite launch into space this year. **Photograph — Richard Polden.**



02 MAR, 2020

Call for combined effort on gender equity



Business News, Perth

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BN
FEATURE



Women in business

Call for combined effort on gender equity

WA companies are making workplaces more equitable but more change needs to come from those at the top.

MOVEMENT: Christina Matthews says everyone faces barriers of some sort. **Photos:** Gabriel Oliveira



Madeleine Stephens
madeleine.stephens@businessnews.com.au

4-PAGE FEATURE

AS an executive in a sport historically focused more on men's participation than that of women, **Christina Matthews** said she was often perceived as a good administrator, rather than a good administrator.

Ms Matthews, the Western Australian Cricket Association's chief executive since 2011 and a veteran of 20 Test matches for Australia, said it took a lot to prove her worth and find people willing to give her an opportunity.

"I think everyone faces barriers of some sort, there's no doubt," Ms Matthews said.

"You don't recognise it as much when it's happening as much as when you look back on it.

"Having spent most of my life in cricket, yes, there were barriers because people saw cricket as a male-dominated environment.

"Like in a lot of things, you had to work twice as hard to get there."

During her time at the WACA, Ms Matthews has helped increase female participation in cricket by



02 MAR, 2020

Call for combined effort on gender equity



Business News, Perth

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550 per cent in WA, and in December 2019 secured \$30 million in federal funding to renovate the WACA Ground.

She said there had been massive societal change throughout her lifetime.

"When I was a kid there were high-profile women in some sports but not CEOs; so I looked at them, how they had done things, what they did, the influence they had, how they were talked about and sort of just worked through that," Ms Matthews said.

"So there have been enormous changes, but not nearly as many as there should've been."

Gender changes

Various statistics show how WA workplaces are progressing on achieving gender equity.

Figures released in mid-February by the Australian Bureau of Statistics show the national gender pay gap at 13.9 per cent, a 0.1 percentage point fall over the past six months.

According to the 2019 Women's Report Card by the Department of Communities and the Bankwest Curtin Economics Centre, the WA gender pay gap was higher at 21.8 per cent.

The gender pay gap was at a similar level in 2001, showing little improvement over the past two decades.

The report said the state's higher gender pay gap had been attributed to the significance of the mining, resources and energy sectors being dominated by males, workplace culture,

lower numbers of WA women in senior roles, the impacts of WA's isolation on family support and access to childcare.

Meanwhile, the **Australian Institute of Company Directors'** 2018 target for 30 per cent female representation on ASX 200 boards was met a year late, in December 2019, while last month the institute reported an average 30.7 per cent representation on boards nationwide.

Despite these incremental gains, however, 100 companies failed to reach the 30 per cent target, 35 companies had one female director and five companies had none, including WA-based Silver Lake Resources.

Perth-based NRW Holdings didn't have any women on its board until it appointed non-executive director Fiona Murdoch in late February.

Non-executive director and former Chief Executive Women president **Diane Smith-Gander** said the 30 per cent target was not good enough.

"The only target with any integrity is the representation that we are in the population, which is 50-50," Ms Smith-Gander told *Business News*.

"We really need to accept that, while we are getting better, 30 per cent is not a target of integrity."

CEOs for Gender Equity executive director Tania Cecconi used **Workplace Gender Equality Agency** data to calculate statistics for WA.

According to Ms Cecconi, 65 of the 431 reporting companies in WA had female chief executives in 2018-19, compared to 63 out of

413 in 2017-18.

Ms Cecconi found a 10.7 per cent increase in WA companies completing a gender pay gap analysis, a 6.2 per cent increase in flexible working strategies, and a 9.4 per cent increase in female directors.

The biggest progress could be seen in the uptake of companies implementing domestic violence policies, which increased by 40 per cent.

Operations and maintenance services company **Programmed**

provided an example of a good domestic violence policy, Ms Cecconi said.

Programmed identified senior executives who staff could call if they needed help escaping domestic violence.

"Within the first five months of that policy being launched, five phone calls were made by five women," Ms Cecconi said.

"They called up these executives and they were given cash, mobile phone, a laptop and accommodation, literally in the middle of the night from these executives.

"That gave them space to escape but also they were provided leave and paid leave to work through what happened, but at the same time ensured a degree of safety.

"These women, in all cases, were at risk of being counselled out of the business for poor performance."

Ms Cecconi said changes like this needed to come from an organisation's leadership team.

"I think that's where it needs to start and that's where we are seeing it start, and where we are



02 MAR, 2020

Call for combined effort on gender equity



Business News, Perth

Page 3 of 5

seeing it being accelerated: from the top," she said.

"You can have as many people agitate for change for equity for the sake of equity but it's the CEO ultimately, who is using their influence to build a better performing team, better leadership, better decision-making, better thinking by having better diversity."

Ms Smith-Gander, whose high-profile career includes roles as a consultant, a general manager in banking, and as a non-executive director for organisations including Wesfarmers, Tourism WA and Broadspectrum, said that given men still held most of the positions of power, they needed to decide things had to change.

"That's the broad thing; it's the men," she said.

"Male Champions for Change, CEOs for Gender Equity, it's the people with power who can make the decisions, and women need to prepare themselves as they have always done.

"I think women's role is to change the aspiration. Be a bit more courageous in the conversations we are prepared to have about what we would like to do and how we would like to do it."

RAC Insurance chief executive Andrew O'Hara is a member of **Male Champions for Change**, a group that encourages men in leadership roles to step up beside women.

Mr O'Hara said he joined Male Champions for Change because the initiative takes a pragmatic

approach and focuses on shared learnings across sectors and organisations.

"On a personal level, I also want my children to grow up in a world where they have access to equal opportunities irrespective of their gender and diversity," Mr O'Hara told *Business News*.

He said his views on gender equity had changed since he joined the group.

"I always viewed gender equity as a significant social and corporate issue, however, this work has really deepened my understanding of just how complex and far-reaching the impacts really are and that there won't be a positive shift without sustained and ongoing effort," Mr O'Hara said.

"The first action we undertake as Male Champions of Change is face-to-face discussions with team members at all levels and genders, to better understand the barriers women face in progressing to senior leadership roles.

"This was an eye-opening experience and I was grateful to my colleagues who shared their experiences."

RAC's Gender Equity Group is working to implement the Gender Diversity Action Plan, focused on eliminating bias, enabling flexible work and addressing pay inequity.

"Flexibility was a consistent theme that arose in my discussions with colleagues and will be a key focus area for me moving forward," Mr O'Hara said.

21.8%

**WA'S GENDER
PAY GAP**

Source: Dept of Communities & BCEC



02 MAR, 2020

Call for combined effort on gender equity

Business News, Perth



“ The only target with any integrity is the representation that we are in the population, which is 50-50 - Diane Smith-Gander



02 MAR, 2020

Call for combined effort on gender equity



Business News, Perth



THE TOP: Tania Cecconi says change needs to come from an organisation's leadership team.



27 FEB, 2020

Uni explores final frontier



Canning Gazette, Perth

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Uni explores final frontier

CURTIN University is preparing to launch its first satellites into orbit.

The university has been working with Japanese space start-up company Space BD Inc to develop two CubeSat miniature satellites.

The satellites - named Binar-1 (1U CubeSat) and Binar-2 (3U CubeSat) - will be launched into orbit from the Japanese Experiment Module Kibo on the International Space Station.

The satellites, which have

been in development since 2018, will be the first pair of satellites launched from Curtin University and from WA.

The project is led by Professor Phil Bland at the Space Science and Technology Centre at Curtin University, working with a team of 12 staff and student engineers.

"The Binar CubeSat Bus is around 10cm by 10cm by 2.5cm and is about the size of a rather small sandwich," Prof Bland said.

"The power, computer, steering and communications are all on a single eight-layer printed circuit board, which means there is more room for what the satellite is carrying: a camera that will capture beautiful images of Australia taken from orbit."

The Binar small satellite technology will also be used as part of the recently launched AROSE consortium to deliver solutions that will benefit the Australia-NASA Moon-to-Mars program.





27 FEB, 2020

Uni explores final frontier



Joondalup Times, Perth

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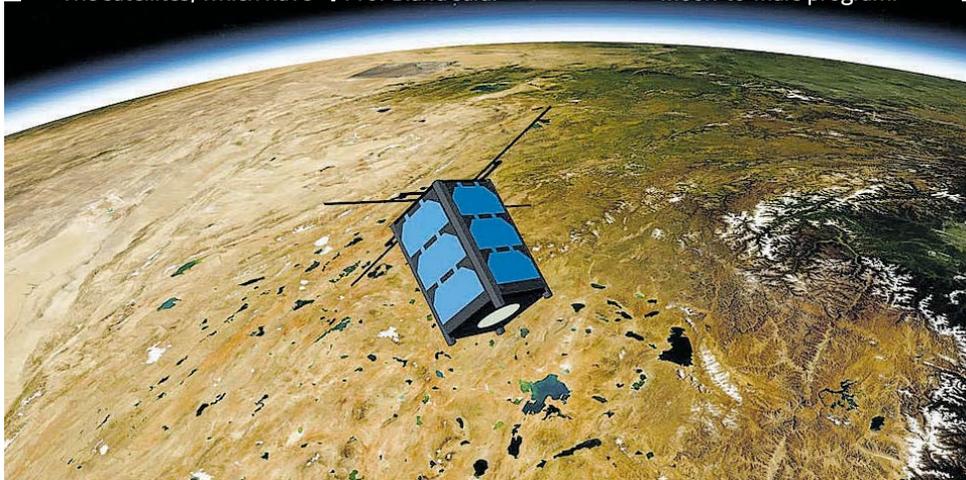
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18 FEB, 2020

WA has part in space race

Fraser Coast Chronicle, Hervey Bay



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WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth.

Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create up to 1500 jobs and boost the economy by \$196 million within the next five years.

AROSE is an industry-led, non-profit consortium enabling WA businesses and universities to bid for space projects.



18 FEB, 2020

Mining skills push WA into space race

Kalgoorlie Miner, Kalgoorlie



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Mining skills push WA into space race

■ Josh Zimmerman

Robots controlled from WA could help build outposts on the Moon and Mars after Perth was selected as the headquarters for a national consortium to find celestial uses for the State's autonomous mining expertise.

Up to 1500 space industry jobs are forecast over the next five years as WA positions itself as a key player in NASA's mission to return astronauts to the Moon by 2024.

The State Government has invested \$1.5 million into Australian Remote Operations for Space and Earth.

Science Minister Dave Kelly said NASA was preparing to "spend an awful lot of money" and that AROSE would help WA companies capitalise on the cash splash, which is expected will inject \$196 million into the State economy and create 1540 jobs over the next five years.



18 FEB, 2020

WA has part in space race

Gympie Times, Gympie

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Morning Bulletin, Rockhampton

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Sunshine Coast Daily, Maroochydore



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Daily Examiner, Grafton



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Queensland Times, Ipswich

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18 FEB, 2020

One giant leap for WA

West Australian, Perth



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Science Minister Dave Kelly said NASA was preparing to "spend an awful lot of money" and that AROSE would help WA companies capitalise on the cash splash.

Economic projections secured by AROSE will inject \$196 million into the State economy and create 1540 jobs over the next five years.



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WA has part in space race

Cairns Post, Cairns



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WA has part in space race

Toowoomba Chronicle, Toowoomba



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18 FEB, 2020

Perth joins space race

Courier Mail, Brisbane



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WORLD-CLASS technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth.

Australian Remote Operations for Space and Earth – an industry-led, non-profit consortium – is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race. The new centre will create an estimated 1500 jobs and boost the economy by \$196 million within five years.

The WA Government has invested \$1.5 million.



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WA has part in space race

Townsville Bulletin, Townsville



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WA has part in space race

Northern Star, Lismore



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WA has part in space race

Gold Coast Bulletin, Gold Coast



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News Mail, Bundaberg



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WA has part in space race

Daily Mercury, Mackay



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WA has part in space race

Gladstone Observer, Gladstone

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WA has part in space race

Daily News, Warwick

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18 FEB, 2020

Robotics centre puts Perth in space race

Barrier Daily Truth, Broken Hill



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Robotics centre puts Perth in space race

By Patrick James

World-class technology will be adapted for remote operations on the moon and Mars at a national space robotics centre based in Perth.

Australian Remote Operations for Space and Earth (AROSE) is a key figure in the Australian-NASA partnership, developing technologies to assist in the international space race.

The new centre will create an estimated 1500 jobs and boost the economy by \$196 million within the next five years.

Science, Innovation and ICT Minister Dave Kelly believes the partnership will help establish WA on the international space stage.

“Our investment to make Western Australia the home of AROSE is set to turn us into a global centre for remote operations in space,” he said.

“What AROSE will do, is take the world-class technology already utilised in Western Australia and adapt it for remote operations on the Moon, Mars and beyond.”

AROSE is an industry-led, non-profit consortium to enable WA businesses and universities to bid for space projects including NASA’s Lunar Gateway project for a space station orbiting the moon.

The state government has invested \$1.5 million into AROSE, assisted by research from Curtin University and the University of Western Australia. **-AAP**



17 FEB, 2020

Tech takes on hospitality

Business News, Perth



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TOURISM & HOSPITALITY

Tech takes on hospitality

Jordan Murray | jordan.murray@businessnews.com.au

A handful of Perth startups have stepped into the hospitality realm to improve the services and operations of the city's venues.



“Whether you like it or not, you’re going to be advertised to, so it might as well be targeted, because at least it’s going to save you time - Adam Mastey

FOR all the advances and disruptive opportunities available via everyday tech such as smartphones, Pubster founder Adam Mastey still sees opportunities in the hospitality sector.

Take the chalkboard, a beloved set piece of any local pub.

Though Mr Mastey admits the old-school signage has a bit of charm in advertising a local bar's happy hour deals and menu specials, he believes its novelty value only goes so far.

"We're still a chalkboard industry," Mr Mastey told *Business News*.

"You go past a bar, and there's a chalkboard there with today's specials.

"That's great, but we're also sending people to (outer) space ... there's an opportunity to take traditional stuff and digitise it."

Mr Mastey, who has been working on Pubster for about two years, is looking to devote his full attention to the platform this year.

He says consumers and bar owners will see the benefits of making venues active through a digital platform, which is akin to an interactive digital map.

Conceding that a business straddling a line between the hospitality and tech sectors is replete with risk, he was confident Pubster's commodification of data would be of value to consumers and publicans alike.

"Publicans are busy people and they get pitched things all the time," Mr Mastey said.

"Once they sit down and go through it, you get the same questions: 'Can you tell me how many people are out tonight? Can you tell me what my competitors are doing?'"

"They want to know this information."

The availability of data through the application has

proved to be one of Pubster's strongest selling points thus far, as was evident when Mr Mastey approached Justin Palmer, owner of Public House, with the idea.



17 FEB, 2020

Tech takes on hospitality

Business News, Perth



Further conversations with publicans and industry bodies gave him a clear sense of the value the platform would have to business owners.

The numbers so far bear out how popular the app has been with consumers and business, with about 3,000 venues visible through Pubster in Australia and New Zealand, 10 per cent of which have constructed their own profiles to promote their business.

While Mr Mastey admits the data collection aspect of that might put some consumers off, he suggested the data would aid consumers in their decision-making processes when on a night out.

"Whether you like it or not, you're going to be advertised to, so it might as well be targeted, because at least it's going to save you time," he said.

The dual appeal to consumers and businesses has also been the selling point behind Mimu.

Founded in 2018, Mimu allows users to order their drinks through their smartphones, thereby avoiding long queues that can become frustrating for customers and bartenders.

Director Andrew Jones told *Business News* the idea arose from personal frustrations over ordering drinks, like the inconvenience of trying to remember drink orders for large groups of people, and the irritation of being away from a partner for too long while waiting at a bar.

"I don't mind sitting here talking and it takes 10 minutes to get a notification to say my drinks are ready, because I'm staying in the conversation," he said.

"If I'm standing at a bar for 10 minutes and trying to get three different people's attention and someone walks in front of me, Mimu tries to erase the frustration."

Pitching the idea to Australian Hotels Association chief executive Bradley Woods as well as publicans Andy Freeman and Ben Maher, Mr Jones said that, despite some apprehension, there was interest on their behalf to integrate technology into their venues.

And while saving on labour costs was one benefit to venue owners, Mr Jones was keen to promote Mimu's role in improving patrons' experience.

"It's an opportunity to improve the level of service in your venue," he said.

As younger audiences come of age and begin accessing licensed venues, both Mr Mastey and Mr Jones believe the market for their platforms will grow.

In the coming year, Mr Mastey said he hoped to raise capital this year and eventually expand into the Japanese, South Korean and Singaporean markets, while Mr Jones said he saw expansion into the UK and Canada as real possibilities and is aiming to have around 350 venues using Mimu by 2022 across Australia.

Both admit that scepticism abounds for tech businesses in the hospitality space, though Mr Jones believes that will dissipate in time, recalling the first time he pitched his ideas to venue owners.

He said they accepted there eventually would come a time where an opportunity such as Mimu arose. The challenge they recognised was making the required change and the need to make that shift quickly.

OPENING TIME: Adam Mastey (left) and Andrew Jones believe it's a matter of time before owners embrace tech in their venues.
Photo: Gabriel Oliveira



14 FEB, 2020

The world's oldest asteroid impact



Int Press - USA, USA

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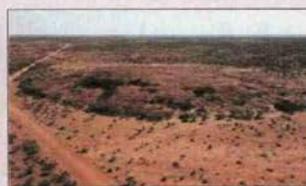


Date: Friday, February 14, 2020
 Location: NEW YORK, NY
 Circulation (DMA): 560,755 (N/A)
 Type (Frequency): Magazine (W)
 Page: 20
 Section: Main
 Keyword: Curtin University

The world's oldest asteroid impact

Researchers say they have identified the world's oldest asteroid crater: a 43-mile-wide scar in Western Australia's outback that was created more than 2 billion years ago. This massive impact may have brought an end to the ice age known as Snowball Earth, when most of the world was covered with ice sheets up to 3 miles thick. The Yarrabubba impact structure is barely recognizable as a crater, because wind, rain, glaciation, and plate tectonics have scraped several miles off our planet's surface over millions of millennia. To test the site's age, geochronologists used electricity to splinter sample rocks

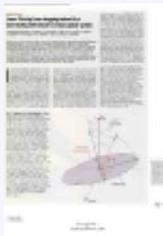
into sand-size grains, and then looked for traces of zircon and monazite. Those tough minerals can survive for billions of years and, importantly, contain uranium and thorium—radioactive elements that can be used to measure age. Researchers determined that the Yarrabubba strike took place 2.229 billion years ago, some 200 million years before the next-oldest known impact, which created the Vredefort Dome in South Africa. They also calculated that when the asteroid hit Earth's icy surface, the collision would have sent more than 100 billion tons of water vapor into the upper atmosphere—enough to trigger a period of



The remnants of the Yarrabubba crater

global warming. "After the impact, glacial deposits are absent in the rock record for 400 million years," co-author Nicholas Timms, from Australia's Curtin University, tells *CNN.com*. This suggests the "impact may have influenced global climate."





31 JAN, 2020

GRAVITATION Lense-Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar system



Int Press - USA, USA

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SCIENCE

Date: Friday, January 31, 2020
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 Page: 577,578,579,580
 Section: Main
 Keyword: Curtin University

GRAVITATION

Lense-Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar system

V. Venkatraman Krishnan^{1,2,*}, M. Bailes^{1,3}, W. van Straten⁴, N. Wex⁵, P. C. C. Freire⁶, E. F. Keane^{1,5}, T. M. Tauris^{6,7,2}, P. A. Rosado¹, N. D. R. Bhat⁸, C. Flynn¹, A. Jameson¹, S. Oslowski¹

Radio pulsars in short-period eccentric binary orbits can be used to study both gravitational dynamics and binary evolution. The binary system containing PSR J1141–6545 includes a massive white dwarf (WD) companion that formed before the gravitationally bound young radio pulsar. We observed a temporal evolution of the orbital inclination of this pulsar that we infer is caused by a combination of a Newtonian quadrupole moment and Lense-Thirring (LT) precession of the orbit resulting from rapid rotation of the WD. LT precession, an effect of relativistic frame dragging, is a prediction of general relativity. This detection is consistent with an evolutionary scenario in which the WD accreted matter from the pulsar progenitor, spinning up the WD to a period of <200 seconds.

In general relativity (GR), the mass-energy current of a rotating body induces a gravitomagnetic field, so called because it has formal similarities with the magnetic field generated by an electric current (1). This gravitomagnetic interaction drags inertial frames in the vicinity of a rotating mass. The strength of this drag is proportional to the body's intrinsic angular momentum (spin). Frame dragging in a binary system causes a precession of the orbital plane called Lense-Thirring (LT) precession (2). The effect has been detected in the weak-field regime by

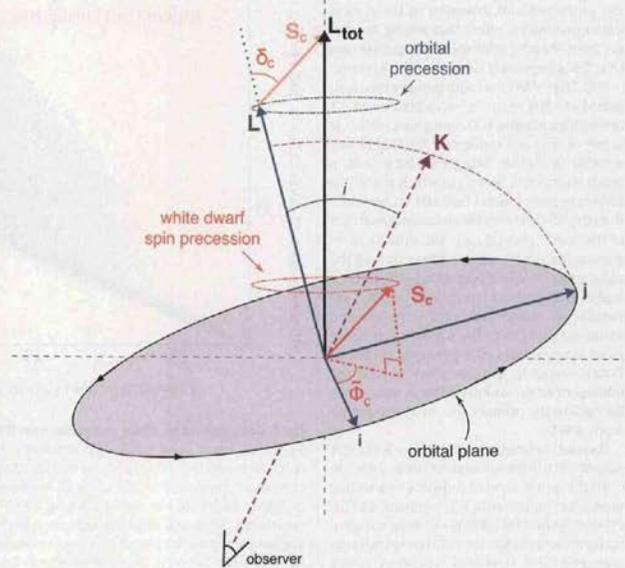
satellite experiments in the gravitational field of the rotating Earth (3, 4). Frame dragging is also a plausible interpretation for x-ray spectra of accreting black holes because it affects photon propagation and the properties of the accretion disk, which in some cases allows the determination of the black hole spin (5).

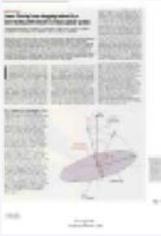
In binary pulsar systems [systems containing both a rotating magnetized neutron star (NS), the radio emission of which is visible from Earth as a pulsar, and an orbiting companion star], relativistic frame dragging caused by the spin of either the pulsar or its com-

panion is expected to contribute to spin-orbit coupling. These relativistic effects are seen in addition to Newtonian contributions from a mass-quadrupole moment (QPM) induced by the rotation of the body (6). Both contributions cause precession of the position of the periastron (ω ; the point in the pulsar orbit that is closest to its companion) and precession of the orbital plane, changing the orbital inclination (i ; see Fig. 1). If these precessional effects are induced by the NS rotation, then they are dominated by LT, whereas in the case of a rotating main-sequence companion star, they are dominated by QPM interactions (6, 7). Fast-rotating white dwarf (WD) companions with spin periods of a few minutes fall between these two extremes and are expected to yield

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Fig. 1. Definition of the orbital geometry. Diagram illustrating the orbital geometry of the system following the “DT92” convention (10) with all vectors shifted to the origin. \mathbf{L} is the angular momentum of the orbit, which is perpendicular to the orbital plane and inclined at an angle i to the line-of-sight vector, \mathbf{K} . The plane containing the vectors \mathbf{L} and \mathbf{K} intersects the orbital plane, defining the orbital plane's unit vector \mathbf{j} and its perpendicular counterpart \mathbf{i} . \mathbf{S}_c is the spin angular momentum of the WD companion, which is misaligned from \mathbf{L} by an angle δ_c . The vector sum of \mathbf{L} and \mathbf{S}_c forms the total angular momentum vector \mathbf{L}_{tot} , which is invariant, whereas \mathbf{L} and \mathbf{S}_c precess. ϕ_c is the angle that the projection of \mathbf{S}_c on the orbital plane subtends with respect to \mathbf{i} and is related to the precession phase of the WD (Φ_c) as $\Phi_c = \phi_c - 270^\circ$. The precessions of \mathbf{L} and \mathbf{S}_c form precession cones around \mathbf{L}_{tot} as labeled. The precession of \mathbf{S}_c causes ϕ_c to sweep through 360° , whereas its rate of advance is modulated by the precession of \mathbf{L} , which induces small oscillations to the position of \mathbf{j} and thus in \mathbf{i} . Some angles and vector magnitudes in the figure are exaggerated for clarity. In practice, $|\mathbf{L}| \gg |\mathbf{S}_c|$; even if the WD is spinning at its breakup speed, the angle between \mathbf{L} and \mathbf{L}_{tot} is at most 0.74° . A more detailed version of this diagram is shown in fig. S1.





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similar contributions from both effects (8). Although QPM spin-orbit interaction has already been observed in some binary pulsars [e.g., PSR J0045-7319 (7)], no binary pulsar orbit has been shown to experience a measurable contribution from LT drag.

The times of arrival (TOAs) of the radio pulses from pulsars can be measured with high precision, with uncertainties that are often more than three orders of magnitude smaller than their spin periods. This allows pulsars to be monitored for decades without losing rotational phase information. This "pulsar-timing" methodology can provide precise measurements of the pulsar's spin and astrometric parameters (9). For pulsars in binary systems, pulsar timing also provides precise measurements of the binary orbit: five parameters describing the nonrelativistic (Keplerian) parameters and, for some binaries, relativistic effects that affect both the orbit and the propagation of the radio signals (10). These relativistic effects are typically parameterized using theory-independent post-Keplerian (PK) parameters (11, 12). Measurements of two PK parameters can be used to obtain the mass of the pulsar (M_p) and of the companion (M_c) by assuming a theory of gravity, such as GR, whereas three or more PK parameters can be used to perform self-consistency tests of that theory. An alternative formalism assumes a theory of gravity such as GR, which allows direct model fitting of the component masses. The latter is preferred if the goal is to understand the properties and dynamics of the system under that theory, rather than testing the theory itself. We adopt this approach and assume that GR adequately describes the system.

PSR J1141-6545 is a radio pulsar with a spin period of ~394 ms in an ~4.74-hour eccentric orbit with a massive WD companion (13, 14). It is one of only two confirmed NS-WD binary systems (the other being PSR B2303+46, a much wider-orbit binary) in which the WD is known to have formed first and is thus older than the NS. This requires an unusual evolution of the stellar pair (15, 16). The initially more massive (primary) star must have formed the older massive WD. Forming a NS requires a higher stellar mass, so the initially (slightly) less massive secondary star must have accreted sufficient mass from the primary star to explode in a supernova (SN), producing the pulsar. Before exploding, the secondary would have undergone an expansion leading to mass transfer back to the primary star, by that point already a WD.

Because the primary was already a WD, there cannot have been subsequent mass accretion onto the newly formed pulsar. Thus, unlike most other pulsars with WD companions, PSR J1141-6545 and PSR B2303+46 were not spun up by mass transfer; they still have the large magnetic field strengths typical of young

pulsars, as inferred from their spin evolution. The pulsar spin axes, which are expected to have started at a random orientation with respect to the orbital plane after the SN explosion, were therefore not aligned with the orbital angular momentum by an accretion process. For a compact system, such a misalignment can result in observable relativistic spin precession of the pulsar (17). This has been observed in PSR J1141-6545 as precession led to temporal evolution of the pulse profile, providing constraints on the system's geometry (18, 19).

PSR J1141-6545 has been observed since 2000, allowing the determination of several PK parameters including the advance of periastron ($\dot{\omega}$), relativistic time dilation, gravitational wave damping, and the Shapiro delay. These are all in agreement with GR (8), justifying our assumption of the theory. We seek

the measurement of an additional PK parameter, the temporal evolution of the observed projected semimajor axis (x_{obs}), which to necessary precision can be written as $x_{obs} = (a_p \sin i/c) + A$, where a_p is the semimajor axis of the pulsar's orbit, i its inclination, c is the speed of light, and A is the first "aberration" parameter, which describes how the aberration of the pulsar signal affects our measurement of x (8, 10).

Timing observations of PSR J1141-6545 have been undertaken using the 64-m Parkes and the UTMOST radio telescopes (20). Our data recording and TOA extraction followed standard pulsar data acquisition and reduction methods (8). The timing data were analyzed using the DDGR model (21), which describes the timing of the pulsar using GR. The measured and derived parameters of the system are provided in Table 1.

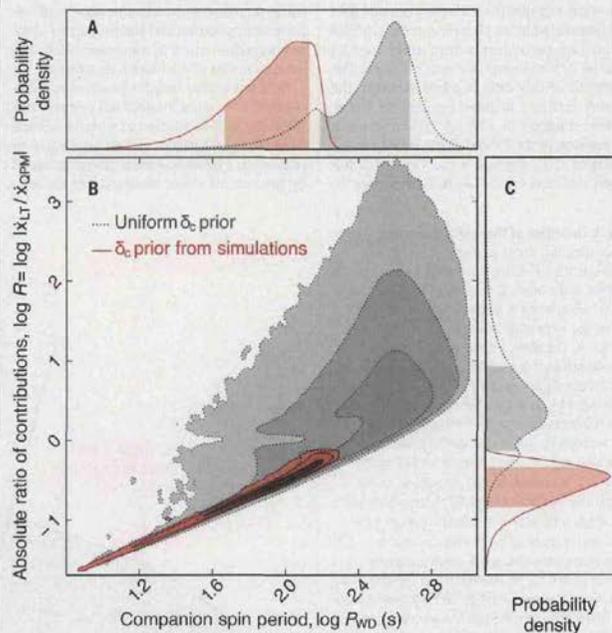
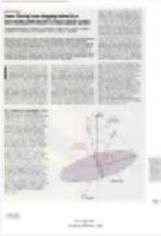


Fig. 2. Contributions to orbital precession from WD rotation. The absolute ratio of the contributions to \dot{x}_{50} from \dot{x}_{LT} and \dot{x}_{QPM} , $R = |\dot{x}_{LT}|/\dot{x}_{QPM}$, is plotted as a function of P_{WD} . (A and C) Marginalized posterior distributions with their 68% confidence intervals shaded, defined as the combination of the two 34% confidence regions on either side of the 2D maximum of the likelihood function. (B) Two-dimensional probability distribution with contours defining the 68%, 95%, and 99% likelihood confidence intervals. The gray-shaded regions and dotted contours are constraints using only the radio observations of the pulsar, whereas the red regions and solid contours include additional binary evolutionary constraints from simulations (8). Numerical values are provided in Table 2.

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We measure the temporal evolution of \dot{x} for this system, $\dot{x}_{\text{obs}} = (1.7 \pm 0.3) \times 10^{-13} \text{ s s}^{-1}$. This value may include contributions from different physical and geometric effects depending on whether there is a corresponding change in α_p , i , or A . We find (δ) only two appreciable contributions to \dot{x}_{obs} : The largest is a change in i that is due to the precession of the orbital plane caused by the spin of the WD ($\dot{\alpha}_{\text{QPM}}$), with a smaller contribution arising from a change in A caused by geodetic precession of the pulsar ($\dot{\alpha}$). The magnitude of the latter contribution was computed from the precessional constraints on the system's geometry (δ , 19); we find that it contributes <21% of \dot{x}_{obs} at 99%

confidence. The remainder is caused by $\dot{\alpha}_{\text{SO}}$, the largest contribution, which corresponds to an average increase of i of 1.7 arc sec per year. All other contributions are several orders of magnitude smaller (δ). Both QPM and LT effects induced by the WD spin (and only these effects) provide non-negligible contributions to $\dot{\alpha}_{\text{SO}}$: The QPM contribution ($\dot{\alpha}_{\text{QPM}}$) is inversely proportional to the square of the WD spin period (P_{WD}), whereas the LT contribution ($\dot{\alpha}_{\text{LT}}$) is inversely proportional to P_{WD} . These effects also contribute to $\dot{\omega}$, but for this system the contribution is expected to be smaller than our observational uncertainties. The LT contribution to $\dot{\omega}$ is

potentially detectable in compact double-NS systems such as the double pulsar, PSR J0737-3039A (22). Both $\dot{\alpha}_{\text{QPM}}$ and $\dot{\alpha}_{\text{LT}}$ are modulated by the spin misalignment angle (δ_s) and the precession phase (Φ^p ; see Fig. 1) of our reference epoch (T_0 ; see Table 1). Both of these angles are unknown, so we performed Markov Chain Monte Carlo (MCMC) computations to obtain a distribution for the individual contributions and used Bayesian statistics to marginalize over the parameter space of δ_s and Φ^p . From this, we infer the maximum allowable P_{WD} consistent with the observed $\dot{\alpha}_{\text{SO}}$ (δ). Figure 2 shows the absolute ratio of the contributions from $\dot{\alpha}_{\text{LT}}$ and $\dot{\alpha}_{\text{QPM}}$, $R = |\dot{\alpha}_{\text{LT}}/\dot{\alpha}_{\text{QPM}}|$, as a function of P_{WD} (fig. S2 shows a full correlation plot). This demonstrates that we can constrain $P_{\text{WD}} < 900 \text{ s}$ with 99% confidence. For known isolated WDs, their spin periods are known to range from a few hours to a few tens of hours (23, 24); the fastest rotating isolated WD known (SDSS J0837+1856), which also has a mass similar to the WD in the PSR J1141-6545 system [~ 0.9 solar masses (M_\odot)], has a spin period of ~ 1.13 hours (24). Our upper limit on P_{WD} is thus a confirmation of WD spin-up caused by an earlier episode of mass transfer. If $P_{\text{WD}} > 270 \text{ s}$, LT is the dominant contributor to $\dot{\alpha}_{\text{SO}}$. R never reaches zero (see also fig. S2), so for all allowed values of (δ_s, Φ^p) , $\dot{\alpha}_{\text{LT}}$ never vanishes. Thus, we detect the action of LT drag in the motion of this binary pulsar. Taking these results as confirmation of the evolutionary history discussed above, we use binary evolution simulations to constrain δ_s and place further constraints on P_{WD} (δ). We find that the mass-transfer phase lasts for $\sim 16,000$ years before the resulting pulsar progenitor star undergoes an "ultrastripped" SN event (25-27). If the mass-accretion rate of the $\sim 1.02 M_\odot$ WD is restricted by the Eddington limit (i.e., the maximum rate of accretion before photon pressure blocks further accretion), which is $\sim 4 \times 10^{-5} M_\odot$ per year for this WD, then it would accrete $\sim 0.06 M_\odot$ in this time. We choose an initial orbital period and mass of the pulsar progenitor star to reproduce the most probable pre-SN binary parameters using 70 million simulations of post-SN orbital parameters of systems resembling PSR J1141-6545 (δ). These simulations allow us to estimate a lower limit on P_{WD} of $\sim 20 \text{ s}$, although this depends on the interactions between the accreted material and the magnetosphere of the WD, which is not known. The angular velocity at which the WD would break up provides a firmer lower limit on P_{WD} of 7 s. The value of δ_s obtained from simulations is $< 50^\circ$ at 99% confidence. This means that the WD spin is prograde, i.e., still rotating in the same direction as the orbit (before the SN, the WD spin was most probably aligned with the orbit, δ_s

Table 1. Model parameters for PSR J1141-6545. Shown are postfitting model parameter values for PSR J1141-6545 with the DDGR timing model. The glitch parameters apply to a previously known pulsar glitch that occurred in 2008 (δ).

Dataset and model fit quality	
Modified Julian date (MJD) range	51,630.8 to 58,214.5 (18.03 years)
No. of TOAs	20,861
Weighted root mean square timing residual (μs)	95.6
Reduced χ^2 value	1.0004
Fixed quantities	
Reference epoch (MJD)	54,000
Glitch epoch (MJD)	54,272.7
Measured quantities	
Right ascension, α (J2000 equinox)	11 ^h 41 ^m 07.007 ^s \pm 0.003 ^s
Declination, δ (J2000 equinox)	-65 [°] 45'19.14" \pm 0.1"
Pulse frequency, ν (s^{-1})	2.5387230404 \pm 1 \times 10 ⁻¹⁰
First derivative of pulse frequency, $\dot{\nu}$ (s^{-2})	-2.76800 \times 10 ⁻¹⁴ \pm 1 \times 10 ⁻¹⁹
Dispersion measure, DM (pc cm ⁻³)	115.98 \pm 0.03
Orbital period, P_b (d)	0.19765096449 \pm 3 \times 10 ⁻¹¹
Epoch of periastron, T_0 (MJD)	53999.9960283 \pm 2 \times 10 ⁻⁷
Projected semimajor axis of orbit, x_{obs} (s)	1.858915 \pm 3 \times 10 ⁻⁶
Longitude of periastron, ω_{p} (degrees)	80.6911 \pm 6 \times 10 ⁻⁴
Orbital eccentricity, e	0.171876 \pm 1 \times 10 ⁻⁶
First derivative of x , \dot{x}_{obs} (s s^{-1})	(1.7 \pm 0.3) \times 10 ⁻¹³
First derivative of e , \dot{e} (s^{-1})	(-2 \pm 8) \times 10 ⁻¹⁵
Companion mass, M_c (M_\odot)	1.02 \pm 0.01
Total mass, M_{TOT} (M_\odot)	2.28967 \pm 6 \times 10 ⁻⁵
Glitch phase	1.0011 \pm 0.0001
Glitch-induced step change in ν (Hz)	(1.49508 \pm 0.0001) \times 10 ⁻⁸
Glitch-induced step change in $\dot{\nu}$ (Hz s^{-1})	(-8.7 \pm 0.2) \times 10 ⁻¹⁷
Derived quantities	
Pulsar mass, M_p (M_\odot)	1.27 \pm 0.01
Orbital inclination, i (degrees)	71 \pm 2 or 109 \pm 2

Table 2. Confidence intervals (68%) from Fig. 2. Shown are the 68% confidence intervals of the companion spin period and the absolute ratio of contributions to \dot{x}_{SO} from $\dot{\alpha}_{\text{LT}}$ and $\dot{\alpha}_{\text{QPM}}$.

Parameter	Uniform δ_s prior	δ_s prior from simulations
Companion spin period [P_{WD} (s)]	397 ⁺³⁹ ₋₃₄₀	116 ⁺¹⁷ ₋₇₉
Absolute ratio of contributions to \dot{x}_{SO} [$R = \dot{\alpha}_{\text{LT}}/\dot{\alpha}_{\text{QPM}} $]	2.13 ^{+1.18} _{-1.41}	0.33 ^{+0.11} _{-0.19}



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$\sim 0^\circ$, caused by accretion of matter from the pulsar's progenitor). We use the distribution of δ_c from simulations as a prior for additional MCMC computations, obtaining tighter constraints for the distribution of R and P_{WD} shown in Fig. 2 (see also fig. S3 for a full correlation plot). We find that P_{WD} is < 200 s with 99% confidence. This is because, for $\delta_c < 50^\circ$, $\dot{\alpha}_{QPM}$ is positive whereas $\dot{\alpha}_{LT}$ is negative. To obtain the net positive $\dot{\alpha}_{SO}$ that we observe, the WD needs to spin substantially faster so the excess from QPM ($\dot{\alpha}_{QPM} - \dot{\alpha}_{SO}$) compensates for the negative $\dot{\alpha}_{LT}$. Table 2 provides the 68% confidence limits on R and P_{WD} with and without binary evolution simulations. These WD spin constraints correspond to an angular momentum between 2 and $20 \times 10^{48} \text{ g cm}^2 \text{ s}^{-1}$. This is one to two orders of magnitude larger than the range observed among the recycled pulsars in double-NS systems, 0.03 to $0.4 \times 10^{48} \text{ g cm}^2 \text{ s}^{-1}$, which also likely experienced accretion onto the first-formed NS (26).

In summary, measurement of the relativistic effects in the PSR J1141–6545 system have enabled us to determine the masses of its WD and NS components, the orbital inclination, and its variation. This variation is dominated by contributions from both the Newtonian quadrupole spin-orbit coupling and the LT precession caused by the rapidly spinning WD. LT precession is required for any orbital orientation and is the dominant term if $P_{WD} > 270$ s after marginalizing over the system's geometry. For prograde rotation of the WD, which is indicated by binary evolution simulations, $P_{WD} < 200$ s and LT precession has an opposite sign to the quadrupolar term. PSR J1141–6545 therefore exhibits another manifestation of Einstein's general theory of relativity: LT frame dragging.

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SUPPLEMENTARY MATERIALS

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Figs. S1 to S11
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Researchers trace oldest asteroid impact to site in Australia



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Researchers trace oldest asteroid impact to site in Australia

By Katherine Kornei
 New York Times

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the oldest?

Researchers reported Tuesday in Nature Communications that they have pinpointed it, in Western Australia. It was caused by an impact more than 2.2 billion years ago.

Intriguingly, that timing roughly coincides with the end of one of our planet's ice ages. An impact in the ice would have liberated an enormous amount of water vapor, the researchers suggest, perhaps enough to alter Earth's climate and catapult the planet out of widespread glaciation.

The Yarrabubba impact structure, about a day's drive northeast of Perth, isn't much to look at today. The original crater, believed to have been roughly 40 miles in diameter, is long gone.

"There's no topography that rises up," said Aaron Cavosie, a planetary scientist at Curtin University in Perth and a member of the research team.

That's because the combined effects of wind, rain, glaciation and plate tectonics have scoured several miles off the surface of the planet, effectively erasing the crater. The extent of erosion suggests that the impact structure is very, very old.

Existing clues yield "a pretty giant" age range of about 1-1/2 billion years, said Timmons Erickson, a geochronologist at NASA Johnson Space Center in Houston and the study's lead author. But Erickson knew that it was possible to do far better, by reading the tiny geological clocks that hide within rocks.

Seeking clues in rocks

In 2014 Erickson collected roughly 200 pounds of granitic rocks from Yarrabubba. Back in the laboratory, he and his colleagues placed the rocks in water and added 120,000 volts of electricity. That jolt broke the rocks into sand-size grains. The scientists were looking for grains of zircon and monazite, tough minerals that survive for billions of years and, crucially, incorporate uranium and thorium atoms into their crystalline structure.

Uranium and thorium decay, in a steady dribble over billions of years, into lead. But the searing temperatures of an impact — thousands of degrees Fahrenheit — cause zircon and monazite to recrystallize, a process that drives out lead.

"It's kind of like cleaning house," Cavosie said. "Recrystallization is a bond-breaking process that kicks out the preexisting lead and thus resets the clock."

As a result, the relative amounts of uranium, thorium and lead in recrystallized zircon or monazite can be used to calculate how long ago an impact occurred.

Based on measurements of 39 zircon and monazite crystals, Erickson and his team calculated that the Yarrabubba impact occurred 2.229 billion years ago, with an uncertainty of 5 million years. The next-oldest impact structure, Vredefort Dome in South Africa, is more than 200 million years younger.

The age of the Yarrabubba impact structure happens to line up with the end of an ice age, which makes for a compelling coincidence, Erickson said: "Would an impact event like Yarrabubba be enough to terminate a glacial time in Earth's history?"

To help answer that question, the scientists modeled the effects of a roughly 4-mile-wide impact object striking ice sheets of different thicknesses. They found that more than 100 billion tons of water vapor would have been jetted into the upper atmosphere.

Water vapor is a potent greenhouse gas; suddenly having much more of it aloft could have triggered a warming that ended an ice age, the team suggested. That idea still needs to be tested with climate models, the researchers noted.

Christian Koeberl, a geochemist at the University of Vienna and not involved in the research, agreed. Inferring what might have happened to Earth's ancient climate is "where things get a lot more speculative," he said. "We just don't know the answer to that yet."



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The oldest crater on earth was hit 2.229 billion years ago

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地球最古老陨石坑 22.29亿年前撞出

据新华社消息 研究人员利用一种高技术测年法测定，位于澳大利亚西部的亚拉巴巴陨石坑为22.29亿年前陨石撞击地球形成，是目前已知地球上最古老陨石坑。

据法新社21日报道，亚拉巴巴陨石坑“年龄”首次被确定，比先前已知地球最古老陨石坑年长2亿年。

准确鉴定年代久远的陨石坑形成时间不是件容易事，因为它们的“地质历史”容易受侵蚀和受地震等地质事件破坏。澳大利亚柯廷大学地球和行星科学研究人员在亚拉巴巴陨石坑里找到遭陨石撞击发生再结晶的锆石和独居石晶粒，分析其中铀衰减情况，确定了陨石撞击地球时间。

他们分析，陨石撞击威力巨大，形成直径70公里的陨石坑，一定程度上改变了当时的地球气候。

研究模型显示，陨石撞击到的地方像当时地球上大片其他区域一样覆盖着冰，冰盖因撞击蒸发为大量水蒸气，产生强大的温室效应，导致当时地球气候变暖。不过，研究人员承认，目前没有证据表明陨石撞击到冰盖。

研究报告刊载于22日出版的《自然》杂志。



23 JAN, 2020

Earth's oldest asteroid impact found in Australia



Int Press - USA, USA

Page 1 of 2

[Return to media item](#)

BRAINERD DISPATCH

Date: Thursday, January 23, 2020
 Location: BRAINERD, MN
 Circulation (DMA): 11,470 (15)
 Type (Frequency): Newspaper (D)
 Page: A2
 Section: Main
 Keyword: Curtin University

Earth's oldest asteroid impact found in Australia



Timmons Erickson via © 2020 The New York Times

A photo provided by Timmons Erickson shows an outcrop of impact melt rock on Barlangi Hill in the Yarrabubba crater in Western Australia, the site of an asteroid collision more than 2 billion years old.

By Katherine Kornei

© 2020 The New York Times

Earth is constantly being pummeled by space rocks. Several tons rain down on the planet each day in the form of dust. And larger strikes have created more visible features, including giant craters. But which of our planet's extraterrestrial scars is the oldest?

Researchers reported on Tuesday in Nature Communications that they have pinpointed it, in Western Australia. It was caused by an impact more than 2.2 billion years ago.

Intriguingly, that timing roughly coincides with the end of one of our planet's ice ages. An impact in the ice would have liberated an enormous amount of water

vapor, the researchers suggest, perhaps enough to alter Earth's climate and catapult the planet out of widespread glaciation.

The Yarrabubba impact structure, about a day's drive northeast of Perth, isn't much to look at today. The original crater, believed to have been roughly 40 miles in diameter, is long gone.

"There's no topography that rises up," said Aaron Cavosie, a planetary scientist at Curtin University in Perth and a member of the research team.

That's because the combined effects of wind, rain, glaciation and plate tectonics have scoured several miles off the surface of the planet, effectively

erasing the crater. Existing clues yield "a pretty giant" age range of about 1 1/2 billion years, said Timmons Erickson, a geochronologist at NASA Johnson Space Center in Houston and the study's lead author.

In 2014, Erickson collected roughly 200 pounds of granitic rocks from Yarrabubba. Back in the laboratory, he and his colleagues placed the rocks in water and added 120,000 volts of electricity. That jolt broke the rocks into sand-size grains. The scientists were looking for grains of zircon and monazite, tough minerals that survive for billions of years and, crucially, incorporate uranium and thorium atoms into their crys-



Page 1 of 2



23 JAN, 2020

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talline structure.

Uranium and thorium decay, in a steady dribble over billions of years, into lead. But the searing temperatures of an impact — thousands of degrees Fahrenheit — cause zircon and monazite to recrystallize, a process that drives out lead.

“It’s kind of like cleaning house,” Cavosie said. “Recrystallization is a bond-breaking process that kicks out the preexisting lead and thus resets the clock.”

As a result, the relative amounts of uranium, thorium and lead in recrystallized zircon or monazite can be used to calculate how long ago an impact occurred.

Based on measurements of 39 zircon and monazite crystals, Erickson and his team calculated that the Yarrabubba impact occurred 2.229 billion years ago, with an uncertainty of 5 million years.



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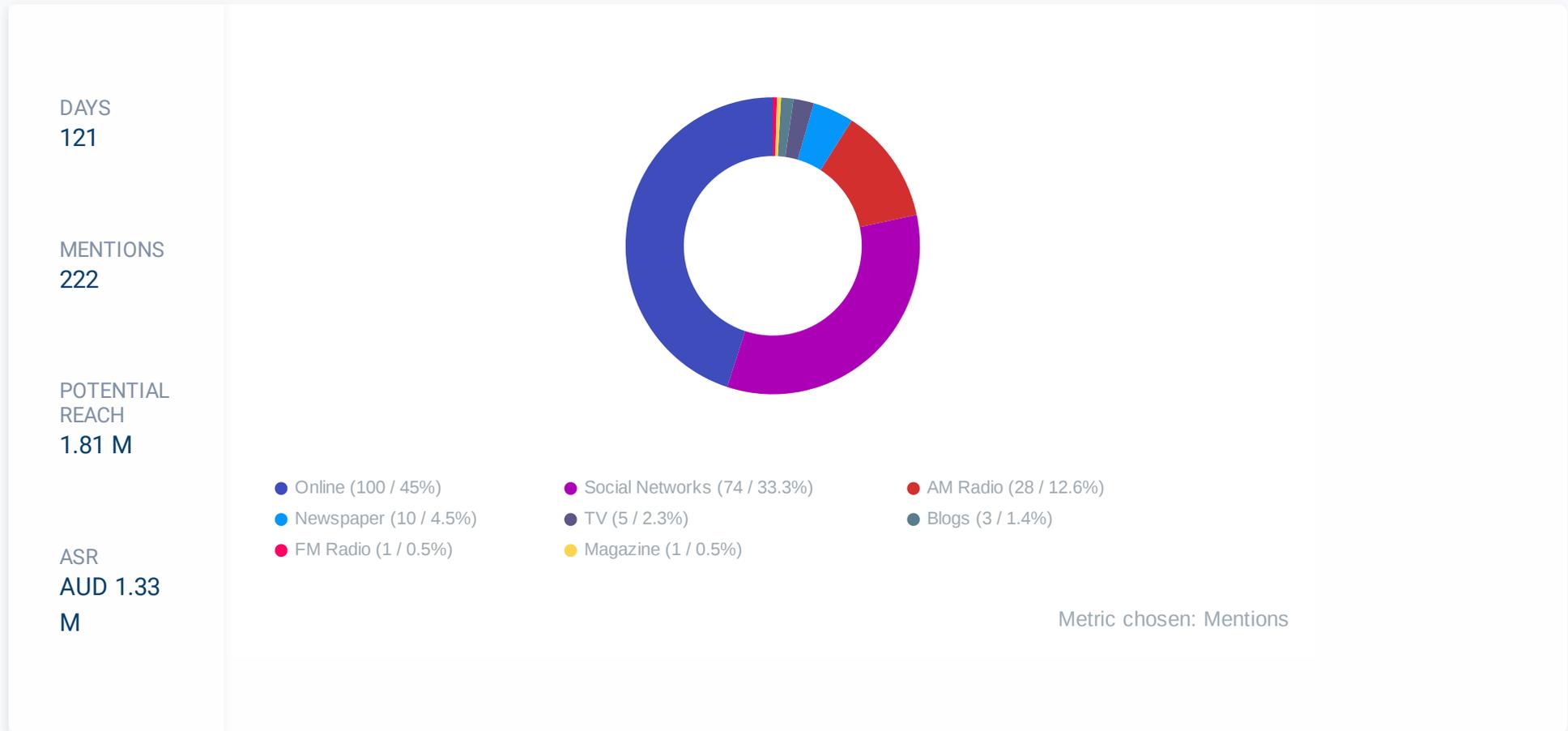
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21 April 2021



Curtin University

SSTC media coverage Sep 2 -Dec 31 2020



An analysis of coverage published measuring volume in the last 121 days between 2 Sep 2020 and 31 Dec 2020 from 1 folder (SSTC) found 222 mentions. This coverage reached a cumulative potential reach of 1,808,816 and an ASR of AUD 1,331,776.

- The media type with the highest volume was Online with 100 mentions

- The media type with the highest potential reach was Social Networks with a total Potential Reach of 583,214
- The media type with the highest ASR was Online with a total ASR of AUD 1,153,049

MEDIA TYPE	MENTIONS	POTENTIAL REACH	ASR
AM Radio	28	350,000	89,080
Blogs	3	0	0
FM Radio	1	0	2,238
Magazine	1	3,669	2,518
Newspaper	10	495,227	62,275
Online	100	165,706	1,153,049
Social Networks	74	583,214	0
TV	5	211,000	22,616

**Using Deliberative Democracy for Better Urban Decision-Making through Integrative Thinking**

27 Dec 2020 11:02AM • mdpi.com by Janette Hartz, Dora Marinova
Brief: SSTC • 215 words • Market: Australia • Item ID: DA0064419119

Curtin University Sustainability Policy (CUSP) Institute, Curtin University, Perth, WA 6845, Australia* Author to whom correspondence should be addressed. Abstract This article expands the evidence about integrative thinking by analyzing two case studies th...

[Read on source site](#)

**Curtin Uni researchers support tracking of Hayabusa2 capsule**

26 Dec 2020 3:40AM • opengovasia.com
Brief: SSTC • 563 words • Market: Australia • Item ID: DA0064400536

Two members from Curtin University's Desert Fireball Network (DFN) team have been stationed in the South Australian outback, eagerly awaiting a capsule from outer space landing on Earth carrying secrets from Ryugu, a small asteroid located deep in the sol...

[Read on source site](#)

**A team from @CurtinUni will provide skills, technology and knowledge to build 'CubeSats' - small, lightweight satellites...**

23 Dec 2020 10:10PM • Twitter by ATN Universities
Followers: 1728 • Following: 807 • Tweets: 1783 • Item ID: DS0174429635

A team from @CurtinUni will provide skills, technology and knowledge to build 'CubeSats' - small, lightweight satellites with low launch costs and minimal fuel requirements as part of Western Australia's AROSE program. Read more in #OurResearch <https://t.co/mp1bTSdO8w> <https://t.co/fnjgkczf>

1,728

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**RT @ATNUnis: A team from @CurtinUni will provide skills, technology and knowledge to build 'CubeSats' - small, lightweig...**

23 Dec 2020 10:10PM • Twitter by Curtin University
Followers: 37680 • Following: 1943 • Tweets: 10066 • Item ID: DS0174442411

RT @ATNUnis: A team from @CurtinUni will provide skills, technology and knowledge to build 'CubeSats' - small, lightweight satellites with low launch costs and minimal fuel requirements as part of Western Australia's AROSE program. Read more in #OurResearch <https://t.co/mp1bTSdO8w> <https://t.co/fnjgkczf>

37,680

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

**3 Questions: Rona Oran and Benjamin Weiss on ancient moon's missing magnetism**

22 Dec 2020 7:26PM • miragenews.com
Brief: SSTC • 1023 words • Market: Australia • Item ID: 1376149630

Today, the moon lacks a global magnetic field, but this wasn't always the case. Spacecraft measurements of the moon's crust and lunar rocks retrieved by the Apollo missions contain remnant magnetization that formed 4 to 3.5 billion years ago in a...

AUD 2,434 366

[Read on source site](#)




Curtin Uni researchers support tracking of Hayabusa2 capsule


14 Dec 2020 8:10PM • spaceconnectonline.com.au

Brief: SSTC • 593 words • Market: Australia • Item ID: 1372599997

Two members from Curtin University's Desert Fireball Network (DFN) team have been stationed in the South Australian outback, eagerly awaiting a capsule from outer space landing on Earth carrying secrets from Ryugu, a small asteroid located deep in the...

AUD 15,209

[Read on source site](#)


Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Sayers shares archaeologi...


13 Dec 2020 11:48AM • [ABC Radio Perth](#) by [Andrea Gibbs](#)

Brief: SSTC • 130 words • Market: Australia • Item ID: X00085384406

Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Sayers shares archaeologists have found links and traces of ancient villages laid out like clock faces in the Amazon in Brazil. She explains the research used sensor technology to analyse architectural features below the forest canopy, revealing circular...

AUD 2,307  11,000


Interview with Professor Phil Bland, Director, Curtin University's Space Science and Technology Centre. Compere says a J...


13 Dec 2020 11:31AM • [6PR](#) by [Compere](#)

Brief: SSTC • 223 words • Market: Australia • Item ID: X00085382352

Interview with Professor Phil Bland, Director, Curtin University's Space Science and Technology Centre. Compere says a Japanese spacecraft delivered a capsule this week and it landed in SA's outback. He continues it signalled the end of a six-year journey, having headed to an asteroid, grabbed a sample, and then brought it home for a study. He high...

AUD 1,327  10,000


Special delivery! ☐☐ Two members from @CurtinUni's #DesertFireballNetwork (DFN) have been eagerly awaiting a capsule fro...


11 Dec 2020 6:21AM • Twitter by [Curtin University](#)

Followers: 37639 • Following: 1944 • Tweets: 10037 • Item ID: DS0173343803

Special delivery! ☐☐ Two members from @CurtinUni's #DesertFireballNetwork (DFN) have been eagerly awaiting a capsule from outer #space carrying secrets from #Ryugu, a small #asteroid located deep in the #SolarSystem. READ: <https://t.co/D5EzOxcacG> @FireballsSky @CurtinSpaceSci <https://t.co/SqqgsF8shi>

 37,639

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


RT @CurtinUni: Special delivery! ☐☐ Two members from @CurtinUni's #DesertFireballNetwork (DFN) have been eagerly awaitin...


11 Dec 2020 6:21AM • Twitter by [Kate TRINAJSTIC](#)

Followers: 327 • Following: 493 • Tweets: 1089 • Item ID: DS0173360923

RT @CurtinUni: Special delivery! ☐☐ Two members from @CurtinUni's #DesertFireballNetwork (DFN) have been eagerly awaiting a capsule from outer #space carrying secrets from #Ryugu, a small #asteroid located deep in the #SolarSystem. READ: <https://t.co/D5EzOxcacG> @FireballsSky @CurtinSpaceSci <https://t.co/SqqgsF8shi>

 327

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Curtin University researchers collect package from space** 
10 Dec 2020 12:58AM • [Perth Now](#)

Brief: SSTC • 339 words • Market: Australia • Item ID: 1370617008

Two Curtin University researchers found themselves stationed in the outback this week, eagerly waiting on a package from outer space. In the South Australian desert, they were part of a team waiting on a capsule landing on Earth carrying secrets from...

AUD 14,321  6,769[Read on source site](#)
 **Special delivery: Curtin researchers record space capsule arrival in outback** 

09 Dec 2020 4:21AM • Curtin University Australia

Brief: SSTC • 418 words • Market: Australia • Item ID: 1370109381

Two members from Curtin University's Desert Fireball Network (DFN) team have been stationed in the South Australian outback, eagerly awaiting a capsule from outer space landing on Earth carrying secrets from Ryugu, a small asteroid located deep in the...

AUD 10,984

[Read on source site](#)
 **Interview with Dr Eleanor Sansom, Planetary Scientist and Team Leader, Curtin University's Desert Fireball Network. Beau...** 
09 Dec 2020 2:12PM • [6PR](#) by [Simon Beaumont](#)

Brief: SSTC • 204 words • Market: Australia • Item ID: X00085338547

Interview with Dr Eleanor Sansom, Planetary Scientist and Team Leader, Curtin University's Desert Fireball Network. Beaumont says he spoke last week to Sansom who was patiently waiting for the Japanese space capsule to return to Earth with some meteorite matter. He mentions there are at least 10 or more meteorite craters in WA. Sansom admits she ha...

AUD 975  16,000
 **Special delivery: Curtin researchers record space capsule arrival in outback** 
09 Dec 2020 4:14AM • [nationaltribune.com.au](#)

Brief: SSTC • 184 words • Market: Australia • Item ID: 1370107443

Two members from Curtin University's Desert Fireball Network (DFN) team have been stationed in the South Australian outback, eagerly awaiting a capsule from outer space landing on Earth carrying secrets from Ryugu, a small asteroid located deep in the...

[Read on source site](#)
 **Interview Alison Krauss Gone Gone Gone ABC Riverland, 13 to 9 on a Wednesday morning day. 344 2020 looking good too. Did...** 
09 Dec 2020 8:50AM • [ABC Riverland SA](#) by [Matt Stephens](#)

Brief: SSTC • 883 words • Market: Australia • Item ID: R00085314595

Interview Alison Krauss Gone Gone Gone ABC Riverland, 13 to 9 on a Wednesday morning day. 344 2020 looking good too. Did you hear you would have Seriously heard about this the Japanese capsule with the asteroid samples landed in the in the outback over the weekend. It's pretty cool what they're doing. Yeah. It was first launched in December 2014. S...

AUD 614

 **Special delivery: Curtin researchers record space capsule arrival in outback**



09 Dec 2020 4:10AM • [miragenews.com](https://www.miragenews.com)

Brief: SSTC • 410 words • Market: Australia • Item ID: 1370106744

Two members from Curtin University's Desert Fireball Network (DFN) team have been stationed in the South Australian outback, eagerly awaiting a capsule from outer space landing on Earth carrying secrets from Ryugu, a small asteroid located deep in the...

AUD 1,144  366

[Read on source site](#)

 **Special delivery: Curtin researchers record space capsule arrival in outback**


08 Dec 2020 8:13PM • Blogs by [nationaltribune.com.au](https://www.nationaltribune.com.au)

Brief: SSTC • 414 words • Market: Australia • Item ID: DA0063784206

Two members from Curtin University's Desert Fireball Network (DFN) team have been stationed in the South Australian outback, eagerly awaiting a capsule from outer space landing on Earth carrying secrets from Ryugu, a small asteroid located deep in the sol...

[Read on source site](#)

 **RT @KateTRINAJSTIC: Crater love hath no man. @CurtinUni's Gretchen Benedix @gbenedix and team are using an algorithm to ...**


08 Dec 2020 5:37AM • Twitter by [Curtin University](#)

Followers: 37640 • Following: 1946 • Tweets: 10018 • Item ID: DS0172966580

RT @KateTRINAJSTIC: Crater love hath no man. @CurtinUni's Gretchen Benedix @gbenedix and team are using an algorithm to spot Martian craters, then running the data through the @PawseyCentre to study the origin and evolution of the solar system. <https://t.co/ixUv1lYu2b>

 37,640

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 **Crater love hath no man. @CurtinUni's Gretchen Benedix @gbenedix and team are using an algorithm to spot Martian craters...**


08 Dec 2020 5:37AM • Twitter by [Kate TRINAJSTIC](#)

Followers: 324 • Following: 493 • Tweets: 1073 • Item ID: DS0172958534

Crater love hath no man. @CurtinUni's Gretchen Benedix @gbenedix and team are using an algorithm to spot Martian craters, then running the data through the @PawseyCentre to study the origin and evolution of the solar system.

 324

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 **TV shooting stars**


07 Dec 2020 1:21PM • Twitter by [Chris Moran](#)

Followers: 250 • Following: 408 • Tweets: 2306 • Item ID: DS0172890433

TV shooting stars

 250

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 **The HIVE is back from upgrades with a bang! 📺**


07 Dec 2020 7:58AM • Twitter by [Curtin HIVE](#)

Followers: 491 • Following: 269 • Tweets: 2784 • Item ID: DS0172860973

The HIVE is back from upgrades with a bang! 📺

 491

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**Here are some still frames from the story on ABC TV News Perth on Saturday night. I don't think the story is online as a...**07 Dec 2020 7:57AM • Twitter by [Curtin HIVE](#)

Followers: 491 • Following: 269 • Tweets: 2783 • Item ID: DS0172860898

Here are some still frames from the story on ABC TV News Perth on Saturday night. I don't think the story is online as a video (yet). The web story is here: <https://t.co/eGjxVDtnQR> @ABCperth @ABCnews @gbenedix @CurtinSpaceSci @PawseyCentre @jesswarriner @CurtinUni @CurtinMedia <https://t.co/VY6oV3XXGI>

491

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)**Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Gibbs says that after spen...**06 Dec 2020 11:49AM • [ABC Radio Perth](#) by [Andrea Gibbs](#)

Brief: SSTC • 125 words • Market: Australia • Item ID: X00085290863

Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Gibbs says that after spending six years in space, a Japanese spacecraft just landed in the desert of SA, bringing with it a small portion of asteroid rocks. She continues scientists, including four teams from the Curtin University's Desert Fireball Networ...

AUD 2,242 11,000

**RT @CurtinHIVE: Here are some still frames from the story on ABC TV News Perth on Saturday night. I don't think the stor...**07 Dec 2020 7:57AM • Twitter by [Pawsey Supercomputing Centre \(Pawsey Centre\)](#)

Followers: 2170 • Following: 868 • Tweets: 3892 • Item ID: DS0172864480

RT @CurtinHIVE: Here are some still frames from the story on ABC TV News Perth on Saturday night. I don't think the story is online as a video (yet). The web story is here: <https://t.co/eGjxVDtnQR> @ABCperth @ABCnews @gbenedix @CurtinSpaceSci @PawseyCentre @jesswarriner @CurtinUni @CurtinMedia <https://t.co/VY6oV3XXGI>

2,170

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)**Amazing work @CurtinSpaceSci Fantastic image of the returning Hayabusa 2 sample materials! And I get to work with thes...**06 Dec 2020 7:57AM • Twitter by [Gretchen Benedix](#)

Followers: 210 • Following: 363 • Tweets: 387 • Item ID: DS0172768445

Amazing work @CurtinSpaceSci Fantastic image of the returning Hayabusa 2 sample materials! And I get to work with these folks!!! @SansomScience @haadry

210

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specia...** 

 05 Dec 2020 7:18PM • ABC by [Jessica Van Vonderen](#)
Brief: SSTC • 95 words • Market: Australia • Item ID: X00085270699

A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specially developed algorithms to help answer the big questions about the origin of the Solar System with the help of a hologram table. Gretchen Benedix and her team of researchers at Curtin University are trying to unlock the secrets o...

AUD 3,894  41,000

 **A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specia...** 

 05 Dec 2020 6:11PM • ABC News by [Mariam Saab](#)
Brief: SSTC • 95 words • Market: Australia • Item ID: X00085270112

A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specially developed algorithms to help answer the big questions about the origin of the Solar System with the help of a hologram table. Gretchen Benedix and her team of researchers at Curtin University are trying to unlock the secrets o...

AUD 6,612  58,000

Also broadcast from: ABC News (Regional West Australia), ABC News (Canberra), ABC News (Hobart), ABC News (Regional Victoria), ABC News (Regional Queensland) and 5 more

 **A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specia...** 

 05 Dec 2020 7:16PM • ABC by [Mary Gearin](#)
Brief: SSTC • 95 words • Market: Australia • Item ID: X00085269927

A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specially developed algorithms to help answer the big questions about the origin of the Solar System with the help of a hologram table. Gretchen Benedix and her team of researchers at Curtin University are trying to unlock the secrets o...

AUD 3,425  36,000

 **A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specia...** 

 05 Dec 2020 5:11PM • ABC News by [Miriam Corowa](#)
Brief: SSTC • 95 words • Market: Australia • Item ID: X00085269356

A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specially developed algorithms to help answer the big questions about the origin of the Solar System with the help of a hologram table. Gretchen Benedix and her team of researchers at Curtin University are trying to unlock the secrets o...

AUD 6,156  54,000

Also broadcast from: ABC News (Regional West Australia), ABC News (Canberra), ABC News (Hobart), ABC News (Regional Victoria), ABC News (Regional Queensland) and 5 more

 **A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specia...** 

 05 Dec 2020 7:13PM • ABC by [Charlotte Hamlyn](#)
Brief: SSTC • 95 words • Market: Australia • Item ID: X00085270654

A team of Perth scientists, including a husband and wife duo, are diving into work even NASA cannot tackle, using specially developed algorithms to help answer the big questions about the origin of the Solar System with the help of a hologram table. Gretchen Benedix and her team of researchers at Curtin University are trying to unlock the secrets o...

AUD 2,529  22,000

 **Gretchen Benedix is on a mission to solve the mysteries of space NASA can't** 

05 Dec 2020 6:42AM • Facebook by [ABC Perth](#)
Brief: SSTC • 23 words • Market: Australia • Item ID: DS0172682570

"NASA can't do what Gretchen and her team have accomplished." Inside a Curtin University laboratory, Gretchen Benedix is roaming the surface of Mars.

[Read on source site](#)

 **Astrogeologist Gretchen Benedix is on a mission to solve the mysteries of space NASA can't - ABC News** 

 05 Dec 2020 3:20AM • [thecoalface.net.au](#)
Brief: SSTC • 123 words • Market: Australia • Item ID: 1368436608

Inside a Perth laboratory, Gretchen Benedix is combing the surface of Mars, counting craters to determine its age. It's all part of a project to answer the big... Inside a Perth laboratory, Gretchen Benedix is roaming the surface of Mars. Key points: A...

AUD 4,663

[Read on source site](#)

 **A story that's so much more than #space. ☐ Don't miss @CurtinSpaceSci Professors @gbenedix and Phil Bland giving us a #v...** 

05 Dec 2020 2:00AM • Twitter by [Curtin Media](#)
Followers: 3914 • Following: 3794 • Tweets: 9688 • Item ID: DS0172665526

A story that's so much more than #space. ☐ Don't miss @CurtinSpaceSci Professors @gbenedix and Phil Bland giving us a #virtual glimpse of #Mars in @CurtinHIVE at 7PM (AWST) on @ABCTV with @jesswarriner.
<https://t.co/4xmOmnQYVQ>

 3,914

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 **RT @CurtinHIVE: Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the s...** 

05 Dec 2020 1:40AM • Twitter by [Peter Green](#)
Followers: 687 • Following: 742 • Tweets: 11250 • Item ID: DS0172667720

RT @CurtinHIVE: Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the story on ABC TV News Perth tonight at 7pm. Filmed at the Curtin HIVE. ;-)
<https://t.co/Vfiggx90pk>

 687

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 **RT @CurtinHIVE: Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the s...** 

05 Dec 2020 1:40AM • Twitter by [Paul Nicholls](#)
Followers: 824 • Following: 1023 • Tweets: 5306 • Item ID: DS0172732138

RT @CurtinHIVE: Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the story on ABC TV News Perth tonight at 7pm. Filmed at the Curtin HIVE. ;-)

 824

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 **RT @CurtinHIVE: Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the s...** 

05 Dec 2020 1:40AM • Twitter by [Kate TRINAJSTIC](#)
Followers: 323 • Following: 493 • Tweets: 1063 • Item ID: DS0172703294

RT @CurtinHIVE: Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the story on ABC TV News Perth tonight at 7pm. Filmed at the Curtin HIVE. ;-)

 323

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 **Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the story on ABC TV N...** 

05 Dec 2020 1:40AM • Twitter by [Curtin HIVE](#)
Followers: 491 • Following: 269 • Tweets: 2778 • Item ID: DS0172664360

Great story and Great photos! @gbenedix @CurtinSpaceSci @CurtinMedia @CurtinUni @PawseyCentre See the story on ABC TV News Perth tonight at 7pm. Filmed at the Curtin HIVE. ;-)

 491

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Astrogeologist Gretchen Benedix is on a mission to solve the mysteries of space NASA can't** 

04 Dec 2020 10:53PM • [WEB MSN Australia](#)
Brief: SSTC • 685 words • Market: Australia • Item ID: 1368380249

Inside a Perth laboratory, Gretchen Benedix is roaming the surface of Mars. The astrogeologist is decked out in goggles with purple bobbles, zooming in on craters on a hologram table. Professor Benedix has always been fascinated by space.

[Read on source site](#)

 **RT @abcnews: Gretchen Benedix is on a mission to solve the mysteries of space NASA can't <https://t.co/JTfeCfXiVJ>** 

04 Dec 2020 10:33PM • Twitter by [Curtin University](#)
Followers: 37639 • Following: 1946 • Tweets: 10012 • Item ID: DS0172865876

RT @abcnews: Gretchen Benedix is on a mission to solve the mysteries of space NASA can't <https://t.co/JTfeCfXiVJ>

 37,639

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @abcperth: Gretchen Benedix is on a mission to solve the mysteries of space NASA can't <https://t.co/yKPgD3gwRV>** 

04 Dec 2020 10:27PM • Twitter by [Curtin Media](#)
Followers: 3915 • Following: 3796 • Tweets: 9691 • Item ID: DS0172851494

RT @abcperth: Gretchen Benedix is on a mission to solve the mysteries of space NASA can't <https://t.co/yKPgD3gwRV>

 3,915

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Astrogeologist Gretchen Benedix is on a mission to solve the mysteries of space NASA can't** 

 04 Dec 2020 10:11PM • [ABC Online](#) by [Jessica Warriner](#)
Brief: SSTC • 1115 words • Market: Australia • Item ID: 1368367794

Inside a Perth laboratory, Gretchen Benedix is roaming the surface of Mars. Key points: A WA couple are working on a unique space project at Curtin University. Their team has been granted half a million dollars in research funding. The project is...

AUD 466,976  34,143

[Read on source site](#)

 **First-ever #sample from beneath an #asteroids surface will land on #Earth on Sunday in a @haya2e_jaxa #mission capsule. ...**

04 Dec 2020 3:17AM • Twitter by [Curtin University](#)
Followers: 37631 • Following: 1946 • Tweets: 10003 • Item ID: DS0172577947

First-ever #sample from beneath an #asteroids surface will land on #Earth on Sunday in a @haya2e_jaxa #mission capsule. "I don't think there will be any sleep involved – the adrenaline is too high." – @FireballsSky Dr Ellie Samson. Read @CosmosMagazine: <https://t.co/m0J3MZT1aL>

 37,631

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


 **RT @PlanetaryPat: My boi @seamus_anderson just published his first 1st-author paper in #Meteoritics & #PlanetaryScie...**

03 Dec 2020 3:14AM • Twitter by [Seamus Anderson](#)
Followers: 13 • Following: 111 • Tweets: 1 • Item ID: DS0178597553

RT @PlanetaryPat: My boi @seamus_anderson just published his first 1st-author paper in #Meteoritics & #PlanetaryScience! Check out how he is using drones to find meteorites in the Australian outback using DFN fireball data. @MeteoriticalSoc @CurtinMedia @CurtinSpaceSci <https://t.co/3cF3HK0x1J> <https://t.co/T6uIbCYHuX>

 13

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


 **The "National Center" implements 7 advanced space projects**

03 Dec 2020 10:20PM • 100tin.com
Brief: SSTC • 1815 words • Market: Australia • Item ID: DA0063596267

12/3/2020, 11:18:12 PM The United Arab Emirates University reported that the University's National Center for Space Science and Technology has implemented seven advanced space projects, the first of their kind in the region, including the launch of the min...

[Read on source site](#)


 **Rolling out the red dirt carpet**

03 Dec 2020 12:11AM • [Cosmos Magazine](#)
Brief: SSTC • 1618 words • Market: Australia • Item ID: 1367348540

In the dusty red heart of the South Australian outback, a small town with an explosive past is waiting for a delivery from space. Established in secret in 1947, Woomera was at the centre of the Australian and British space race projects for more than...

AUD 7,641  4,206

[Read on source site](#)


 **My boi @seamus_anderson just published his first 1st-author paper in #Meteoritics & #PlanetaryScience! Check out how...**

03 Dec 2020 3:14AM • Twitter by [Patrick Shober](#)
Followers: 189 • Following: 224 • Tweets: 160 • Item ID: DS0172470344

My boi @seamus_anderson just published his first 1st-author paper in #Meteoritics & #PlanetaryScience! Check out how he is using drones to find meteorites in the Australian outback using DFN fireball data. @MeteoriticalSoc @CurtinMedia @CurtinSpaceSci <https://t.co/3cF3HK0x1J> <https://t.co/T6uIbCYHuX>

 189

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)



 **SMEs benefit from big defence purchases – Lockheed Martin**


02 Dec 2020 10:17PM • Australian Manufacturing by Peter Roberts
Brief: SSTC • 535 words • Market: Australia • Item ID: 1367310384

SME defence manufacturers and employment are among flow on beneficiaries of major defence purchases such as global defence supplier Lockheed Martin's F-35 Lightning joint strike fighter, according to an economic analysis commissioned by the company. ...

[Read on source site](#)

 **RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mar...**


02 Dec 2020 1:50AM • Twitter by [Paul Nicholls](#)
Followers: 823 • Following: 1023 • Tweets: 5296 • Item ID: DS0172410421

RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHIVE's hologram table. Stay tuned for the story later this week. #CurtinResearch @CurtinSpaceSci <https://t.co/qhkDyldEM6>

 823

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 **RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mar...**


02 Dec 2020 1:50AM • Twitter by [Gretchen Benedix](#)
Followers: 206 • Following: 361 • Tweets: 386 • Item ID: DS0172619851

RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHIVE's hologram table. Stay tuned for the story later this week. #CurtinResearch @CurtinSpaceSci <https://t.co/qhkDyldEM6>

 206

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 **RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mar...**


02 Dec 2020 1:50AM • Twitter by [Kate TRINAJSTIC](#)
Followers: 323 • Following: 493 • Tweets: 1030 • Item ID: DS0172408698

RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHIVE's hologram table. Stay tuned for the story later this week. #CurtinResearch @CurtinSpaceSci <https://t.co/qhkDyldEM6>

 323

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 **RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mar...**


02 Dec 2020 1:50AM • Twitter by [Prof. Peter Newman](#)
Followers: 2582 • Following: 715 • Tweets: 1537 • Item ID: DS0172397137

RT @CurtinMedia: SNEAK PREVIEW □ @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHIVE's hologram table. Stay tuned for the story later this week. #CurtinResearch @CurtinSpaceSci <https://t.co/qhkDyldEM6>

 2,582

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 **RT @CurtinMedia: SNEAK PREVIEW**  @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mar...

02 Dec 2020 1:50AM • Twitter by [Curtin HIVE](#)
Followers: 490 • Following: 269 • Tweets: 2769 • Item ID: DS0172357739

RT @CurtinMedia: SNEAK PREVIEW  @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHIVE's hologram table. Stay tuned for the story later this week. #CurtinResearch @CurtinSpaceSci <https://t.co/qhkDyldEM6>

 490

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **MOLTEN MAGMA ON THE MOVE** 

01 Dec 2020 12:00AM • [Australian Mining Review](#)
Brief: SSTC • 542 words • Market: Australia • Item ID: 1372556730

international research led by geologists from Curtin University has found that Ia volcanic province in the Indian Ocean was the world's most continuously active erupting for 30 million years fuelled by a constantly moving 'conveyor belt' of magma. It's believed this was created by shifts in the seabed, continuously made space available for the molt...

[View original](#) AUD 2,518  3,669

 **SNEAK PREVIEW**  @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHI...

02 Dec 2020 1:50AM • Twitter by [Curtin Media](#)
Followers: 3910 • Following: 3789 • Tweets: 9679 • Item ID: DS0172339394

SNEAK PREVIEW  @CurtinUni researchers Professors @gbenedix and Phil Bland giving @ABCTV a look at #Mars using @CurtinHIVE's hologram table. Stay tuned for the story later this week. #CurtinResearch @CurtinSpaceSci <https://t.co/qhkDyldEM6>

 3,910

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Gibbs says scientists have...** 

 22 Nov 2020 11:49AM • [ABC Radio Perth](#) by [Andrea Gibbs](#)
Brief: SSTC • 136 words • Market: Australia • Item ID: X00085115963

Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Gibbs says scientists have discovered a way to objectively measure Tinnitus in the brain. Sayers says it is possible through brain imaging studies and technology called functional near-infrared spectroscopy, which is non-invasive to measure blood flow in t...

AUD 1,940  9,000

 **Curtin gets \$4.5m ARC funding** 

20 Nov 2020 3:00AM • [BN Western Australia](#) by [Business News](#)
 Brief: SSTC • 165 words • Market: Australia • Item ID: 1361715585

Twelve research projects led by Curtin University will share in \$4.5 million in grants from the federal government. The projects, which range from supercontinent cycles and the earth's origins, will be funded under the Australian Research Council (ARC)...

AUD 163  377

[Read on source site](#)

 **Curtin research boosted by \$4.5 million in ARC funding** 

20 Nov 2020 12:38AM • Curtin University Australia
 Brief: SSTC • 307 words • Market: Australia • Item ID: 1361665429

Curtin University has been awarded almost \$4.5 million by the Federal Government for 12 research projects, ranging from supercontinent cycles and the Earth's origins, to the evolution of the solar system and fast radio bursts. The Curtin-led projects,...

AUD 8,643

[Read on source site](#)

 **Research boosted by \$4.5 million in ARC funding** 

20 Nov 2020 12:45AM • [nationaltribune.com.au](#)
 Brief: SSTC • 170 words • Market: Australia • Item ID: 1361668081

Curtin University has been awarded almost \$4.5 million by the Federal Government for 12 research projects, ranging from supercontinent cycles and the Earth's origins, to the evolution of the solar system and fast radio bursts. The Curtin-led projects,...

[Read on source site](#)

 **Research boosted by \$4.5 million in ARC funding** 

19 Nov 2020 4:45PM • Blogs by [nationaltribune.com.au](#)
 Brief: SSTC • 302 words • Market: Australia • Item ID: DA0063151074

Curtin University has been awarded almost \$4.5 million by the Federal Government for 12 research projects, ranging from supercontinent cycles and the Earth's origins, to the evolution of the solar system and fast radio bursts. The Curtin-led projects, fun...

[Read on source site](#)

 **Research boosted by \$4.5 million in ARC funding** 

20 Nov 2020 12:44AM • [miragenews.com](#)
 Brief: SSTC • 309 words • Market: Australia • Item ID: 1361667636

Curtin University has been awarded almost \$4.5 million by the Federal Government for 12 research projects, ranging from supercontinent cycles and the Earth's origins, to the evolution of the solar system and fast radio bursts. The Curtin-led projects,...

AUD 914  366

[Read on source site](#)

 **RT @CurtinMedia: How do #scientists meaningfully engage with us? @CurtinSpaceSci's Renae Sayers (@lycra geek) discusses w...** 

18 Nov 2020 2:28AM • Twitter by [Curtin University](#)
 Followers: 37536 • Following: 1948 • Tweets: 9897 • Item ID: DS0171064091

RT @CurtinMedia: How do #scientists meaningfully engage with us? @CurtinSpaceSci's Renae Sayers (@lycra geek) discusses why science #communication is now becoming more important than ever. Listen here: <https://t.co/2f5sxD5Wmj> @JessicaStrutt @abcperth

 37,536

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 **How do #scientists meaningfully engage with us?**
 @CurtinSpaceSci's Renae Sayers (@lycrageek) discusses why science #commu...

18 Nov 2020 2:28AM • Twitter by [Curtin Media](#)
 Followers: 3897 • Following: 3768 • Tweets: 9647 • Item ID: DS0171062205

How do #scientists meaningfully engage with us? @CurtinSpaceSci's Renae Sayers (@lycrageek) discusses why science #communication is now becoming more important than ever. Listen here: <https://t.co/2f5sxD5Wmj> @JessicaStrutt @abcperth

 3,897

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 **Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leac...**

 17 Nov 2020 10:34AM • [ABC Radio Perth](#) by [Jessica Strutt](#)
 Brief: SSTC • 184 words • Market: Australia • Item ID: X00085023674

Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curtin University's Space Science and Technology Centre Deputy Director Renae Sayers. Leach shares about the piece about the challenge of science communication she has written on The History. She states Australia has 60,00yo...

AUD 1,188  5,000



 **Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leac...**

 17 Nov 2020 10:45AM • [ABC Radio Perth](#) by [Jessica Strutt](#)
 Brief: SSTC • 79 words • Market: Australia • Item ID: X00085023801

Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curtin University's Space Science and Technology Centre Deputy Director Renae Sayers. Leach says social media could both be helpful and hinder science communication. She believes science needs to keep up with social media li...

AUD 283  5,000



 **Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leac...**

 17 Nov 2020 10:28AM • [ABC Radio Perth](#) by [Jessica Strutt](#)
 Brief: SSTC • Market: Australia • Item ID: X00085023484

Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curtin University's Space Science and Technology Centre Deputy Director Renae Sayers. Sayers shares her experiences being a science communicator travelling the world back then, noting that one of the most interesting things ...

AUD 368  8,000




Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leac...


 17 Nov 2020 10:20AM • [ABC Radio Perth](#) by [Jessica Strutt](#)
 Brief: SSTC • 177 words • Market: Australia • Item ID: X00085023381

Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curtin University's Space Science and Technology Centre Deputy Director Renae Sayers. Strutt states her guests today believe that science communication has become more important these days more than ever as the list of chall...

 AUD 1,064  8,000


"Opening up a world to be curious about": how science communicators are more important than ever


 17 Nov 2020 5:08AM • [ABC Online](#) by [Jessica Strutt](#)
 Brief: SSTC • 103 words • Market: Australia • Item ID: 1360046332

Between the coronavirus pandemic and high profile climate change deniers - 2020 has been a challenging time to be a science communicator. It's never been so easy to spread disinformation and misinformation to millions. How do scientist meaningfully...

 AUD 52,472  34,143

[Read on source site](#)

Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leac...


 17 Nov 2020 10:15AM • [ABC Radio Perth](#) by [Jessica Strutt](#)
 Brief: SSTC • 96 words • Market: Australia • Item ID: X00085023333

Continuing Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curtin University's Space Science and Technology Centre Deputy Director Renae Sayers. Leach shares about her favourite science communicators, noting that Australia has a great ecosystem of science communicators that can be s...

 AUD 680  8,000


Feeling inspired about all the ARC DP success stories today! Congrats to the @CurtinUni researchers incl. Prof Raphael V...


 13 Nov 2020 9:34AM • Twitter by [Zoe Richards](#)
 Followers: 785 • Following: 609 • Tweets: 685 • Item ID: DS0170580087

Feeling inspired about all the ARC DP success stories today! Congrats to the @CurtinUni researchers incl. Prof Raphael Viscarra Rossel, Prof David Antoine, Prof Phil Bland! Congrats also to UWA staff @AnaMMSequeira @GaryAKendrick Prof Ryan Lister & Prof Malcolm McCulloch ☺☺

 785

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Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curti...


 17 Nov 2020 10:09AM • [ABC Radio Perth](#) by [Jessica Strutt](#)
 Brief: SSTC • 143 words • Market: Australia • Item ID: X00085023310

Panel Discussion with Australian National Centre for Public Awareness of Science Director Professor Joan Leach and Curtin University's Space Science and Technology Centre Deputy Director Renae Sayers. Sayers states science communication is about engagement with reality and it is not just about how people write and talk but about how is it that they...

 AUD 1,086  8,000


RT @ZoeR_Coral: Feeling inspired about all the ARC DP success stories today! Congrats to the @CurtinUni researchers incl...


13 Nov 2020 9:34AM • Twitter by [Jens Zinke](#)

Followers: 341 • Following: 151 • Tweets: 1772 • Item ID: DS0170615954

RT @ZoeR_Coral: Feeling inspired about all the ARC DP success stories today! Congrats to the @CurtinUni researchers incl. Prof Raphael Viscarra Rossel, Prof David Antoine, Prof Phil Bland! Congrats also to UWA staff @AnaMMSequeira @GaryAKendrick Prof Ryan Lister & Prof Malcolm McCulloch ☺☺☺

 341

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


Need for Speed: UVA Engineering Boosts Hypersonic Travel


12 Nov 2020 10:02PM • [miragenews.com](#)

Brief: SSTC • 3884 words • Market: Australia • Item ID: DA0062743338

Imagine tossing your carry-on into the overhead bin of an airplane in Washington, then disembarking about 90 minutes later in London, barely enough time to get tray service. Those who've sat in the middle seat on a transatlantic flight will tell you they w...

[Read on source site](#)


The Global Fireball Observatory: Catching meteorites with an Earth-sized net


11 Nov 2020 12:00AM • Lab Down Under by Miklos Bolza

Brief: SSTC • 2885 words • Market: Australia • Item ID: 1357422430

Imagine seeing a shooting star streak across the night sky as it burns bright in the atmosphere. How would you feel? Maybe lucky that you had seen a relatively rare event or maybe awe and excitement at witnessing a visitor from space. For members of th...

[Read on source site](#)


Researchers secure \$17.5m in Marsden funding


10 Nov 2020 9:36PM • [nationaltribune.com.au](#)

Brief: SSTC • 2313 words • Market: Australia • Item ID: 1357241123

University of Otago researchers have secured \$17.5 million in Marsden funding for 30 world-class research projects. Fourteen projects, led by researchers in every division of the University – Commerce, Health Sciences, Humanities and Sciences – receive...

[Read on source site](#)


Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Gibbs says that as part of...


08 Nov 2020 11:45AM • [ABC Radio Perth](#) by [Andrea Gibbs](#)

Brief: SSTC • 158 words • Market: Australia • Item ID: X00084936643

Interview with Renae Sayers, Science Communicator and Research Ambassador, Curtin University. Gibbs says that as part of an experiment to see how technology could improve the well-being of captive animals, researchers in Helsinki discovered something intriguing. Sayers confirms this, saying captive monkeys showed a significant preference to listen ...

AUD 1,983  9,000


Cause of Ancient Volcanic Eruptions That Lasted Tens of Millions of Years Identified by New Study


06 Nov 2020 6:53PM • [sputniknews.com](#)

Brief: SSTC • 302 words • Market: Australia • Item ID: DA0062390483

The researchers' discovery is expected, among other things, to help establish "what factors can control the start and end of volcanic activity". A lengthy series of supervolcano eruptions that occurred in ancient past, lasting from around 122 million years...

[Read on source site](#)


Geologists Find Magma 'Conveyor Belt' That Fuelled Earth's Longest Supervolcano Burst


06 Nov 2020 2:43AM • msn.com/en-ph by David Nield
Brief: SSTC • 526 words • Market: Australia • Item ID: DA0062344855

A subterranean 'conveyor belt' of magma, pushing up to Earth's surface for millions of years, was responsible for the longest stretch of erupting supervolcanoes ever seen on the planet, according to new research. Shifts in the seabed caused channels to form...

[Read on source site](#)


Geologists Find Magma 'Conveyor Belt' That Fuelled Earth's Longest Supervolcano Burst


06 Nov 2020 2:41AM • msn.com/en-sg by David Nield
Brief: SSTC • 526 words • Market: Australia • Item ID: DA0062344725

A subterranean 'conveyor belt' of magma, pushing up to Earth's surface for millions of years, was responsible for the longest stretch of erupting supervolcanoes ever seen on the planet, according to new research. Shifts in the seabed caused channels to form...

[Read on source site](#)


Geologists Find Magma 'Conveyor Belt' That Fuelled Earth's Longest Supervolcano Burst


06 Nov 2020 2:13AM • sciencealert.com by David Nield
Brief: SSTC • 526 words • Market: Australia • Item ID: DA0062342502

A subterranean 'conveyor belt' of magma, pushing up to Earth's surface for millions of years, was responsible for the longest stretch of erupting supervolcanoes ever seen on the planet, according to new research. Shifts in the seabed caused channels to form...

[Read on source site](#)


Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes


05 Nov 2020 7:42AM • terradaily.com
Brief: SSTC • 539 words • Market: Australia • Item ID: DA0062292731

International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active - erupting for 30 million years - fuelled by a constantly moving 'conveyor belt' of magma. It's b...

[Read on source site](#)


Meteor answer to big bang


05 Nov 2020 7:36AM • echonewspaper.com.au
Brief: SSTC • 295 words • Market: Australia • Item ID: 1354660102

By Melissa Sheil HILLS Facebook community forums were abuzz on Sunday night as residents speculated over the source of a loud booming noise at around 8pm. Though theories of UFOs, quarry blasts and special ops assignments were aplenty, the answer wa...

AUD 34  85

[Read on source site](#)


RT @CurtinMedia: Is there life on #Mars? @CurtinUni's Dr Katarina Miljkovic discusses @NASA's latest mission to Mars and...


05 Nov 2020 2:50AM • Twitter by [Kate TRINAJSTIC](#)
Followers: 293 • Following: 490 • Tweets: 924 • Item ID: DS0169617081

RT @CurtinMedia: Is there life on #Mars? @CurtinUni's Dr Katarina Miljkovic discusses @NASA's latest mission to Mars and #marsquakes on @NightlifeABC. Listen here: <https://t.co/FXq9CnGSHC>

 293

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 **Is there life on #Mars? @CurtinUni's Dr Katarina Miljkovic discusses @NASA's latest mission to Mars and #marsquakes on @...** 

05 Nov 2020 2:50AM • Twitter by [Curtin Media](#)
Followers: 3877 • Following: 3754 • Tweets: 9615 • Item ID: DS0169594506

Is there life on #Mars? @CurtinUni's Dr Katarina Miljkovic discusses @NASA's latest mission to Mars and #marsquakes on @NightlifeABC. Listen here: <https://t.co/FXq9CnGSHC>

 3,877

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 **Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes** 

04 Nov 2020 1:04PM • [phys.org](#)
Brief: SSTC • 610 words • Market: Australia • Item ID: DA0062233814

A small eruption of Mount Rinjani, with volcanic lightning. Location: Lombok, Indonesia. Credit: Oliver Spalt, Wikipedia. International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's...

[Read on source site](#)

 **Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes** 

05 Nov 2020 1:15AM • [freerepublic.com](#)
Brief: SSTC • 175 words • Market: Australia • Item ID: DA0062267497

International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active—erupting for 30 million years—fuelled by a constantly moving conveyor belt of magma. It's believ...

[Read on source site](#)

 **Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes** 

04 Nov 2020 1:04PM • [physorg.com](#)
Brief: SSTC • 564 words • Market: Australia • Item ID: DA0062233785

A small eruption of Mount Rinjani, with volcanic lightning. Location: Lombok, Indonesia. Credit: Oliver Spalt, Wikipedia. November 4, 2020 by April Kleer, International research led by geologists from Curtin University has found that a volcanic province in...

[Read on source site](#)

 **Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes** 

04 Nov 2020 2:27PM • [eurekaalert.org](#)
Brief: SSTC • 564 words • Market: Australia • Item ID: DA0062237403

International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active -- erupting for 30 million years -- fuelled by a constantly moving 'conveyor belt' of magma. It's...

[Read on source site](#)

 **The Red Planet** 

04 Nov 2020 12:55PM • [abc.net.au](#) by Philip Clark
Brief: SSTC • 66 words • Market: Australia • Item ID: DA0062233453

Is there life on Mars? What will the 3 missions on their way to Mars discover when they arrive there in February next year? To find out we spoke with two Australian scientists, who've played a pivotal role in NASA's latest missions to Mars: Adjunct Professo...

[Read on source site](#)

**Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes**

04 Nov 2020 1:09AM • news.curtin.edu.au

Brief: SSTC • 566 words • Market: Australia • Item ID: DA0062195629

International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active — erupting for 30 million years — fuelled by a constantly moving 'conveyor belt' of magma.It's ...

[Read on source site](#)**Fireball reported over Perth's eastern suburbs sounded like a'meth lab blew up'**

02 Nov 2020 6:22AM • abc.net.au by Michelle Stanley

Brief: SSTC • 572 words • Market: Australia • Item ID: DA0062068851

The fireball was captured by the Desert Fireball Network's Katanning camera system. (Supplied: DFN, Curtin University)Experts from Curtin University's Desert Fireball Network (DFN) believe last night's fireball and sonic boom was caused by small piece o...

[Read on source site](#)**Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes**

04 Nov 2020 12:59AM • nationaltribune.com.au

Brief: SSTC • 566 words • Market: Australia • Item ID: DA0062195028

International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active – erupting for 30 million years – fuelled by a constantly moving 'conveyor belt' of magma.It's ...

[Read on source site](#)**We're launching #satellites you can hold in the palm of your hand. 🇦🇺Australia plays a pivotal role in #SpaceExploration...**

01 Nov 2020 4:00AM • Twitter by Curtin University

Followers: 37450 • Following: 1947 • Tweets: 9811 • Item ID: DS0169180148

We're launching #satellites you can hold in the palm of your hand. 🇦🇺Australia plays a pivotal role in #SpaceExploration & our #CurtinResearch @CurtinSpaceSci leads this ambition. Ever heard of a #CubeSat? Change is here, discover: [#CurtinChangeIsHere](https://t.co/EIEzWftwnq) <https://t.co/mBBq0qIKBJ>

37,450

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)**Magma 'conveyor belt' fuelled world's longest erupting supervolcanoes**

04 Nov 2020 12:55AM • miragenews.com

Brief: SSTC • 567 words • Market: Australia • Item ID: DA0062194724

International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active – erupting for 30 million years – fuelled by a constantly moving 'conveyor belt' of magma.It's ...

[Read on source site](#)

 **Scott Morrison: dismal with Daniel Andrews, feeble on freedom**
28 Oct 2020 7:27AM • [spectator.com.au](#)

Brief: SSTC • 2944 words • Market: Australia • Item ID: DA0061779020

Ahead of question time in federal parliament yesterday there were two contrasting speeches given. In response to a motion moved by opposition leader Anthony Albanese celebrating Victoria's reopening after defeating a second wave of coronavirus infections, ...

[Read on source site](#)
 **Science has an impact**
22 Oct 2020 12:00AM • [Southern Gazette](#)

Brief: SSTC • 219 words • Market: Australia • Item ID: 1351930813

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space. UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the Year in the Premier's Science Awards.

AUD 1,851  23,150[View original](#)
 **Science has an impact**
22 Oct 2020 12:00AM • [Southern Gazette](#)

Brief: SSTC • 219 words • Market: Australia • Item ID: 1360647542

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space. UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the Year in the Premier's Science Awards.

AUD 1,660  23,150[View original](#)
 **Interview with Phil Bland, professor, Curtin University. Mitsopoulos says NASA has landed the spacecraft OSIRIS-REx on t...**
21 Oct 2020 7:13AM • [ABC Radio Perth](#) by [Nadia Mitsopoulos](#)

Brief: SSTC • 185 words • Market: Australia • Item ID: X00084674023

Interview with Phil Bland, professor, Curtin University. Mitsopoulos says NASA has landed the spacecraft OSIRIS-REx on the asteroid Bennu after two years of circling. She adds the craft took in 60 grammes of dirt, which is the largest amount of extra-terrestrial material brought back to Earth since the Apollo era. She adds some samples will end up ...

AUD 1,555  8,000
 **Mitsopoulos says NASA has successfully landed a spacecraft in asteroid Bennu to collect dust before heading back to Earth...**
21 Oct 2020 6:16AM • [ABC Radio Perth](#) by [Nadia Mitsopoulos](#)

Brief: SSTC • 41 words • Market: Australia • Item ID: X00084672414

Mitsopoulos says NASA has successfully landed a spacecraft in asteroid Bennu to collect dust before heading back to Earth. She plays an audio clip of the moment the spacecraft landed. She says she will interview Curtin University's Phil Bland about this.

AUD 61  1,000

 **Did you know @NASA's #OSIRISREx landed on asteroid #Bennu last night? @CurtinSpaceSci's Professor Phil Bland discusses h...**

21 Oct 2020 6:00AM • Twitter by [Curtin Media](#)

Followers: 3873 • Following: 3746 • Tweets: 9590 • Item ID: DS0167757730

Did you know @NASA's #OSIRISREx landed on asteroid #Bennu last night? @CurtinSpaceSci's Professor Phil Bland discusses how his team will be the first in the world to analyse the samples retrieved. Listen here: [@NadiaMits @Russell_Woolf @abcperth](https://t.co/1kBocOeSKk)

  3,873

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)


 **EXPERT REACTION: NASA's OSIRIS-REx digs for dirt on asteroid Bennu**

21 Oct 2020 3:23AM • [scimex.org](#) by Ben Kaldi

Brief: SSTC • 2414 words • Market: Australia • Item ID: 1351611845

NASA has just successfully landed the OSIRIS-REx spacecraft on a lumpy asteroid called Bennu and collected a sample of dirt from the surface to try and help us decipher how the solar system formed. Embargoed until: Publicly released: Wed 21 Oct 2020...

AUD 1,662   208

[Read on source site](#)


 **Interview with Dr Katarina Miljkovic, expert on space exploration, Curtin University. Karvelas reports NASA will attempt...**

20 Oct 2020 6:45PM • [Radio National](#) by [Patricia Karvelas](#)

Brief: SSTC • 93 words • Market: Australia • Item ID: X00084665207

Interview with Dr Katarina Miljkovic, expert on space exploration, Curtin University. Karvelas reports NASA will attempt to land a spacecraft on Bennu, an asteroid hurtling through space between Earth and Mars. Miljkovic agrees that this attempt will be difficult but they will apply a maneuver called 'touch and go'. Miljkovic confirms a spacecraft ...

AUD 39,757   15,000

Also broadcast from: Radio Australia (Asia Pacific) (Sydney), Radio National (Newcastle), Radio National (Darwin), Radio National (Adelaide), Radio National (Hobart) and 4 more


 **NASA spacecraft to land on asteroid**

20 Oct 2020 8:28AM • [ABC Online](#)

Brief: SSTC • 73 words • Market: Australia • Item ID: 1351162426

By Patricia Karvelas on RN Drive NASA will attempt to land a spacecraft on an asteroid in the early hours tomorrow morning. The asteroid is called Bennu. It's 500 metres wide and hurtling through space, somewhere between Earth and Mars.

AUD 87,079   34,143

[Read on source site](#)



 **Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and th...** 

20 Oct 2020 7:06AM • Twitter by [Curtin University](#)
Followers: 37393 • Following: 1949 • Tweets: 9742 • Item ID: DS0167616142

Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and then begin its journey back to Earth, where @CurtinUni's own Prof. Phil Bland and his team will be among the first researchers in the world to analyse them.☐☐
<https://t.co/s3fDS5ouLf>

 37,393

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 **RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve ...** 

20 Oct 2020 7:06AM • Twitter by [Ben Keirnan](#)
Followers: 487 • Following: 748 • Tweets: 5473 • Item ID: DS0167627265

RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and then begin its journey back to Earth, where @CurtinUni's own Prof. Phil Bland and his team will be among the first researchers in the world to analyse them.☐☐
<https://t.co/s3fDS5ouLf>

 487

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 **RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve ...** 

20 Oct 2020 7:06AM • Twitter by [Curtin Media](#)
Followers: 3872 • Following: 3742 • Tweets: 9588 • Item ID: DS0167618516

RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and then begin its journey back to Earth, where @CurtinUni's own Prof. Phil Bland and his team will be among the first researchers in the world to analyse them.☐☐
<https://t.co/s3fDS5ouLf>

 3,872

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 **RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve ...** 

20 Oct 2020 7:06AM • Twitter by [Kate TRINAJSTIC](#)
Followers: 287 • Following: 487 • Tweets: 870 • Item ID: DS0167627115

RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and then begin its journey back to Earth, where @CurtinUni's own Prof. Phil Bland and his team will be among the first researchers in the world to analyse them.☐☐
<https://t.co/s3fDS5ouLf>

 287

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 **RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve ...**

20 Oct 2020 7:06AM • Twitter by [Paul Nicholls](#)

Followers: 818 • Following: 1019 • Tweets: 5207 • Item ID: DS0167658035

RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and then begin its journey back to Earth, where @CurtinUni's own Prof. Phil Bland and his team will be among the first researchers in the world to analyse them. □□ <https://t.co/s3fDS5ouLf>

 818

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)



 **Interview with Curtin University Research Ambassador and Science Communicator Renae Sayers. Gibbs says science is all ab...**

18 Oct 2020 11:49AM • [ABC Radio Perth](#) by [Andrea Gibbs](#)

Brief: SSTC • 122 words • Market: Australia • Item ID: X00084664318

Interview with Curtin University Research Ambassador and Science Communicator Renae Sayers. Gibbs says science is all about discovering the wonders of how the world works. She mentions deserts cover one-fifth of the Earth's surface and Australia is no stranger to a barren and dry plain. Sayers states deserts are greener than originally thought. She...

AUD 1,739  9,000



 **RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve ...**

20 Oct 2020 7:06AM • Twitter by [Australian institute of Physics \(Aus Inst of Physics\)](#)

Followers: 2068 • Following: 333 • Tweets: 3173 • Item ID: DS0167627198

RT @CurtinUni: Early tomorrow morning, @NASA's #OSIRISREx spacecraft will attempt to land on #asteroid #Bennu, retrieve samples, and then begin its journey back to Earth, where @CurtinUni's own Prof. Phil Bland and his team will be among the first researchers in the world to analyse them. □□ <https://t.co/s3fDS5ouLf>

 2,068

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)



 **New books by Lisa Forrest, Phillip Kerr and more**

16 Oct 2020 4:00AM • The Australian by Various writers

Brief: SSTC • 7608 words • Market: Australia • Item ID: 1349406258

The push and pull of these voices plagued Forrest for the following three decades and took the joy out of everything in her life, including motherhood and marriage to "a good man who understood her". Picture: Andy Baker NON-FICTION Tina Allen Glide:...

AUD 191,555  4,543



 **【原】昨天：杀手小行星已逼近到地月之间！NASA科学家们之前竟一直没发现它……**

19 Oct 2020 4:00PM • 360doc.com

Brief: SSTC • 336 words • Market: Australia • Item ID: DA0061563063

星系花园·狮子月·灾难花小蜜常识科普人人类最担心的大审判从哪儿来？难道是地下么？明明是天上啊……纵观地球历史，每一次的物种大灭绝都是缘起于从...

[Read on source site](#)



**Moon's magnetic crust research sees scientists debunk long-held theory**

14 Oct 2020 9:20PM • clarencevalleynews.com.au

Brief: SSTC • 547 words • Market: Australia • Item ID: 1348544523

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic,...

[Read on source site](#)**Previous theories debunked**14 Oct 2020 12:00AM • [Canning Examiner](#)

Brief: SSTC • 280 words • Market: Australia • Item ID: 1348023473

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study coauthor Dr Katarina Miljkovic, from the Curtin Space Science and Technology Centre, located within the School of Earth and Planetary...

[View original](#)

AUD 532 29,603

**RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planeta...**13 Oct 2020 6:06AM • Twitter by [Kate TRINAJSTIC](#)

Followers: 286 • Following: 484 • Tweets: 851 • Item ID: DS0166567026

RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planetary bodies have evolved via #asteroid impacts—and was a #NASA intern studying ██████ in Mexico!
<https://t.co/rIEIOdKGch> #WASciAwards #PhD @CurtinUni
<https://t.co/K2pkbDRLC7>

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

286

**RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planeta...**13 Oct 2020 6:06AM • Twitter by [Paul Nicholls](#)

Followers: 818 • Following: 1020 • Tweets: 5198 • Item ID: DS0166583034

RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planetary bodies have evolved via #asteroid impacts—and was a #NASA intern studying ██████ in Mexico!
<https://t.co/rIEIOdKGch> #WASciAwards #PhD @CurtinUni
<https://t.co/K2pkbDRLC7>

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818

**RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planeta...**13 Oct 2020 6:06AM • Twitter by [Zaya Altangerel](#)

Followers: 5 • Following: 129 • Tweets: 6 • Item ID: DS0166577974

RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planetary bodies have evolved via #asteroid impacts—and was a #NASA intern studying ██████ in Mexico!
<https://t.co/rIEIOdKGch> #WASciAwards #PhD @CurtinUni
<https://t.co/K2pkbDRLC7>

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5



 **Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planetary bodies have e...** 

13 Oct 2020 6:06AM • Twitter by [Particle WA](#)
Followers: 3837 • Following: 2328 • Tweets: 10081 • Item ID: DS0166547634

Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planetary bodies have evolved via #asteroid impacts—and was a #NASA intern studying ██████ in Mexico!
<https://t.co/rIEIOdKGch> #WASciAwards #PhD @CurtinUni
<https://t.co/K2pkbDRLC7>

 3,837

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 **RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planeta...** 

13 Oct 2020 6:06AM • Twitter by [Chris Moran](#)
Followers: 238 • Following: 387 • Tweets: 2160 • Item ID: DS0166578507

RT @ParticleWA: Joint ExxonMobil Student Scientist of the Year Morgan Cox is investigating how Earth & other planetary bodies have evolved via #asteroid impacts—and was a #NASA intern studying ██████ in Mexico!
<https://t.co/rIEIOdKGch> #WASciAwards #PhD @CurtinUni
<https://t.co/K2pkbDRLC7>

 238

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 **Curtin Uni researchers debunk long-held lunar mystery** 

12 Oct 2020 9:34PM • spaceconnectonline.com.au
Brief: SSTC • 516 words • Market: Australia • Item ID: 1347302685

A team of international researchers, including a team from Curtin University, has revealed insights as to how and why the moon's crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study...

AUD 12,387

[Read on source site](#)

 **Scientists figure out how the Moon was magnetized** 

12 Oct 2020 6:57PM • bigthink.com by Paul Ratner
Brief: SSTC • 196 words • Market: Australia • Item ID: DA0061190636

New research explains why the Moon's crust is magnetized by debunking one long-standing theory. Plasma flow and magnetic field evolution after an impact on the Moon. Credit: Science Advances, doi: 10.1126/sciadv.abb1475 Researchers use advanced computer simu...

[Read on source site](#)

 **Moon's magnetic crust research sees scientists debunk long-held theory – ScienceDaily – Up News Info** 

11 Oct 2020 1:45PM • Australian Online News
Brief: SSTC • 74 words • Market: Australia • Item ID: 1346679782

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic, fro...

[Read on source site](#)

**Interview with Curtin University Research Ambassador and Science Communicator Renae Sayers. Gibbs asks about the amazing...**11 Oct 2020 11:47AM • [ABC Radio Perth](#) by [Andrea Gibbs](#)

Brief: SSTC • 142 words • Market: Australia • Item ID: X00084676411

Interview with Curtin University Research Ambassador and Science Communicator Renae Sayers. Gibbs asks about the amazing footage that revealed human cells squeezing through impossibly tight spaces. Sayers confirms this, saying the cells were like doing some tricky yoga positions. She explains cell movements were studied in flat 3D spaces and it loo...

AUD 1,760 9,000

**New Study Challenges Hypothesis that Moon's Crust was Magnetized by Meteoroid Impacts**08 Oct 2020 3:08PM • [sci-news.com](#) by [Migrating Jupiter May, Venus Uninhabitable Long](#)

Brief: SSTC • 617 words • Market: Australia • Item ID: DA0061072644

The crusts of the Moon, Mercury and many small bodies in the Solar System are magnetized. Although the magnetizing field is commonly attributed to that of an ancient core dynamo, a long-held hypothesis is amplification of the interplanetary magnetic field...

[Read on source site](#)**The leader's not for #turning: is Jacinda Ardern really the future of liberal democracy?**09 Oct 2020 8:13AM • [Sydney Morning Herald](#)

Brief: SSTC • 7003 words • Market: Australia • Item ID: 1345868849

Normal text sizeLarger text sizeVery large text size Jacinda Ardern was being tested and she wasn't enjoying it. It was 2017.

AUD 182,196 11,530

[Read on source site](#)**Long-held theory of the Moon's magnetic crust debunked in study of past impacts**08 Oct 2020 12:42PM • [indiaeveryday.in](#) by [Fp Trending](#)

Brief: SSTC • 191 words • Market: Australia • Item ID: DA0061066933

A new study of the Moon has offered scientists insights into why the Earth's natural satellite's crust is magnetized,'debunking' one of two long-standing theories about the moon's magnetic crust. The first is that the magnetization is the result of an anc...

[Read on source site](#)**Moon's magnetic crust research sees scientists debunk long-held theory**08 Oct 2020 7:39PM • [dannyboston.blogspot.com](#) by [Danny Boston](#)

Brief: SSTC • 469 words • Market: Australia • Item ID: DA0061080345

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially'debunking' one of the previous longstanding theories.Australian researcher and study co-author Dr Katarina Miljkovic, from th...

[Read on source site](#)**Long-held theory of the Moon's magnetic crust debunked in study of past impacts**08 Oct 2020 11:55AM • [firstpost.com](#) by [Fp Trending](#)

Brief: SSTC • 359 words • Market: Australia • Item ID: DA0061064708

FP Trending Oct 08, 2020 17:17:42 ISTA new study of the Moon has offered scientists insights into why the Earth's natural satellite's crust is magnetized, 'debunking'one of two long-standing theories about the moon's magnetic crust. The first is that the ...

[Read on source site](#)

Long-held theory of the Moon's magnetic crust debunked in study of past impacts

08 Oct 2020 11:55AM • in.news.yahoo.com by Fp Trending
Brief: SSTC • 330 words • Market: Australia • Item ID: DA0061064688

A new study of the Moon has offered scientists insights into why the Earth's natural satellite's crust is magnetized, 'debunking' one of two long-standing theories about the moon's magnetic crust. The first is that the magnetization is the result of an anc...

[Read on source site](#)

Moon's magnetic crust research sees scientists debunk long-held theory

08 Oct 2020 6:13AM • sciencecodex.com
Brief: SSTC • 513 words • Market: Australia • Item ID: DA0061052326

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic, from th...

[Read on source site](#)

Moon's magnetic crust research – scientists debunk long-held theory

08 Oct 2020 9:51AM • mbnw.in
Brief: SSTC • 541 words • Market: Australia • Item ID: DA0061060035

There are two long term hypotheses associated with why the Moon's crust might be magnetic, says researcher. Key Highlights New research into the Moon provides scientists with insights as to how and why its crust gets magnetised, essentially 'debunking' one ...

[Read on source site](#)

Moon's Magnetic Crust Research Sees Scientists Debunk Long-held Theory

08 Oct 2020 4:18AM • spaceref.com
Brief: SSTC • 533 words • Market: Australia • Item ID: DA0061049306

Press Release - Source: Curtin University Posted October 8, 2020 12:13 AM 0 Comments New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstandi...

[Read on source site](#)

Australian scientists debunk long-held theory of Moon's magnetic crust

08 Oct 2020 9:00AM • supercomputingonline.com by Tyler O Neal
Brief: SSTC • 285 words • Market: Australia • Item ID: DA0061057858

New international research into the Moon provides scientists with insights as to how and why its crust is magnetized, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr. Katarina Miljkovic, from ...

[Read on source site](#)

Premier's Science Awards: Student scientists from Como and Wembley

 08 Oct 2020 3:12AM • [Perth Now](#)
Brief: SSTC • 402 words • Market: Australia • Item ID: 1345097828

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space. UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the...

AUD 41,830  6,769

[Read on source site](#)

**Science making an impact**08 Oct 2020 12:00AM • [Western Suburbs Weekly](#)

Brief: SSTC • 181 words • Market: Australia • Item ID: 1344821753

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space. UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the Year in the Premier's Science Awards.

AUD 1,312 42,874

[View original](#)**Scientists debunk leading theory of why the Moon has a magnetic crust**07 Oct 2020 9:33PM • [inverse.com](#)

Brief: SSTC • 477 words • Market: Australia • Item ID: DA0061038450

Billions of years ago, the Moon's crust magnetized. Now, scientists think they know why. More than 50 years ago, NASA landed humans on the Moon — and we brought a piece of it back with us to Earth. That 22 kilograms of rock and dust collected by the Apollo a...

[Read on source site](#)**Science has an impact**08 Oct 2020 12:00AM • [Canning Gazette](#)

Brief: SSTC • 219 words • Market: Australia • Item ID: 1344794313

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space. UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the Year in the Premier's Science Awards.

AUD 1,598 18,559

[View original](#)**1 Moon's magnetic crust research sees scientists debunk long-held theory 1 1**07 Oct 2020 7:51PM • [indiaeveryday.in](#)

Brief: SSTC • 601 words • Market: Australia • Item ID: DA0061036184

New international research into the Moon provides scientists with insights as to how and why its crust is magnetized, essentially 'debunking' one of the previous longstanding theories. FULL STORY New international research into the Moon provides scientists w...

[Read on source site](#)**Moon's magnetic crust research - scientists debunk long-held theory**07 Oct 2020 11:53PM • [newkerala.com](#)

Brief: SSTC • 530 words • Market: Australia • Item ID: DA0061041313

ANI | 43 seconds ago Washington, October 7: New research into the Moon provides scientists with insights as to how and why its crust gets magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-autho...

[Read on source site](#)**Moon's magnetic crust research – scientists debunk long-held theory**07 Oct 2020 7:38PM • [zee5.com](#)

Brief: SSTC • 578 words • Market: Australia • Item ID: DA0061035815

Washington [US], October 7 (ANI): New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. October 8, 2020 4 min Washington [US...

[Read on source site](#)

**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 7:34PM • sciencedaily.com

Brief: SSTC • 581 words • Market: Australia • Item ID: DA0061035760

New international research into the Moon provides scientists with insights as to how and why its crust is magnetized, essentially 'debunking' one of the previous longstanding theories.FULL STORYNew international research into the Moon provides scientists w...

[Read on source site](#)**Science News | Moon's Magnetic Crust Research - Scientists Debunk Long-held Theory**

07 Oct 2020 4:11PM • latestly.com

Brief: SSTC • 562 words • Market: Australia • Item ID: DA0061030952

Washington [US], October 7 (ANI): New research into the Moon provides scientists with insights as to how and why its crust gets magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Kat...

[Read on source site](#)**Moon's magnetic crust research - scientists debunk long-held theory**

07 Oct 2020 4:29PM • devdiscourse.com

Brief: SSTC • 547 words • Market: Australia • Item ID: DA0061034242

| Washington DC | Updated: 07-10-2020 21:57 IST | Created: 07-10-2020 21:57 IST New research into the Moon provides scientists with insights as to how and why its crust gets magnetised, essentially 'debunking' one of the previous longstanding theories. Au...

[Read on source site](#)**Moon's magnetic crust research - scientists debunk long-held theory**

07 Oct 2020 4:01PM • aninews.in by Oran Said

Brief: SSTC • 529 words • Market: Australia • Item ID: DA0061030663

Washington [US], October 7 (ANI): New research into the Moon provides scientists with insights as to how and why its crust gets magnetised, essentially 'debunking' one of the previous longstanding theories.Australian researcher and study co-author Dr Katar...

[Read on source site](#)**Moon's magnetic crust research - scientists debunk long-held theory**

07 Oct 2020 4:26PM • webindia123.com

Brief: SSTC • 524 words • Market: Australia • Item ID: DA0061031433

New research into the Moon provides scientists with insights as to how and why its crust gets magnetised, essentially 'debunking' one of the previous longstanding theories.Australian researcher and study co-author Dr Katarina Miljkovic, from the Curtin Spa...

[Read on source site](#)**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 2:32PM • 7thspace.com

Brief: SSTC • 528 words • Market: Australia • Item ID: DA0061028194

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories.Australian researcher and study co-author Dr Katarina Miljkovic, from th...

[Read on source site](#)

**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 2:01 PM • brightsurf.com

Brief: SSTC • 854 words • Market: Australia • Item ID: DA0061027225

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic, from th...

[Read on source site](#)**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 4:15 AM • nationaltribune.com.au

Brief: SSTC • 197 words • Market: Australia • Item ID: 1344489138

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic,...

[Read on source site](#)**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 1:30 PM • eurekalert.org

Brief: SSTC • 527 words • Market: Australia • Item ID: DA0061026032

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic, from th...

[Read on source site](#)**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 4:06 AM • Curtin University Australia

Brief: SSTC • 547 words • Market: Australia • Item ID: 1344485790

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic,...

[Read on source site](#)

AUD 13,725

**Moon's magnetic crust research sees scientists debunk long-held theory**

07 Oct 2020 5:43 AM • scimex.org

Brief: SSTC • 642 words • Market: Australia • Item ID: 1344521023

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Embargoed until: Publicly released: Wed 7 Oct 2020 at 1530 AEDT ...

[Read on source site](#)

AUD 535 208



**'It doesn't feel like working'**07 Oct 2020 12:00AM • [Canning Examiner](#)

Brief: SSTC • 368 words • Market: Australia • Item ID: 1344469840

A Curtin University student has had her research into asteroid impacts recognised with a prestigious award. Curtin University PHD candidate Morgan Cox has been named joint Student Scientist of the Year at the 2020 Western Australian Premier's Science Awards.

AUD 616 29,603

[View original](#)**UWA scientists top Premier's awards**03 Oct 2020 12:00AM • [Subiaco Post](#)

Brief: SSTC • 378 words • Market: Australia • Item ID: 1342100490

A University of WA researcher who has made significant advancements in understanding the molecular programming in cells that determine how living creatures function has been awarded joint Scientist of the Year in the 2020 Premier's Science Awards. Professor Ryan Lister of Floreat, pioneered the field of epigenomics - the study of the molecular code...

AUD 1,129 50,350

[View original](#)**Moon's magnetic crust research sees scientists debunk long-held theory**06 Oct 2020 8:14PM • Blogs by [nationaltribune.com.au](#)

Brief: SSTC • 544 words • Market: Australia • Item ID: DA0063031286

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories. Australian researcher and study co-author Dr Katarina Miljkovic, from ...

[Read on source site](#)**Photos from Curtin University's post**01 Oct 2020 5:26AM • Facebook by [Curtin University](#)

Brief: SSTC • 50 words • Market: Australia • Item ID: DS0165081009

Big congratulations to leading Curtin astronomer and John Curtin Distinguished Professor Steven Tingay on being named joint Scientist of the Year and Curtin PhD candidate Ms Morgan Cox for joint winning the ExxonMobil Student Scientist of the Year at the...

[Read on source site](#)**'How cross-discipline #STEAM education benefits us all', chaired by @drspacejunk of @Flinders will be starting soon and ...**06 Oct 2020 1:19AM • Twitter by [The ad astra vita project](#)

Followers: 201 • Following: 758 • Tweets: 120 • Item ID: DS0165566409

'How cross-discipline #STEAM education benefits us all', chaired by @drspacejunk of @Flinders will be starting soon and features Phil Bland of @CurtinUni, @astrogin of @Swinburne, @siddharthpandey of @AmityUniMumbai, Naomi Norris of @UniMelbMDHS & Adrienne Provenzano #adastravita <https://t.co/zEfDOfKa9S>

201

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scie...** 

30 Sep 2020 7:16AM • Twitter by [Kate TRINAJSTIC](#)
Followers: 285 • Following: 481 • Tweets: 818 • Item ID: DS0164982613

RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scientist of the Year & #PhD candidate Ms Morgan Cox for joint winning the @exxonmobil Student Scientist of the Year at the 2020 #WASciAwards! Read: <https://t.co/tbzWqygrE1> <https://t.co/XpdMpDmaTb>

 285

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 **RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scie...** 

30 Sep 2020 7:16AM • Twitter by [LUL bic™ \(Perth Today\)](#)
Followers: 37981 • Following: 13380 • Tweets: 67039 • Item ID: DS0164971148

RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scientist of the Year & #PhD candidate Ms Morgan Cox for joint winning the @exxonmobil Student Scientist of the Year at the 2020 #WASciAwards! Read: <https://t.co/tbzWqygrE1> <https://t.co/XpdMpDmaTb>

 37,981

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 **RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scie...** 

30 Sep 2020 7:16AM • Twitter by [Paul Nicholls](#)
Followers: 818 • Following: 1020 • Tweets: 5181 • Item ID: DS0165057294

RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scientist of the Year & #PhD candidate Ms Morgan Cox for joint winning the @exxonmobil Student Scientist of the Year at the 2020 #WASciAwards! Read: <https://t.co/tbzWqygrE1> <https://t.co/XpdMpDmaTb>

 818

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scie...** 

30 Sep 2020 7:16AM • Twitter by [ATN Universities](#)
Followers: 1643 • Following: 776 • Tweets: 1671 • Item ID: DS0164985101

RT @CurtinUni: Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scientist of the Year & #PhD candidate Ms Morgan Cox for joint winning the @exxonmobil Student Scientist of the Year at the 2020 #WASciAwards! Read: <https://t.co/tbzWqygrE1> <https://t.co/XpdMpDmaTb>

 1,643

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scientist of the Ye...** 

30 Sep 2020 7:16AM • Twitter by [Curtin University](#)
Followers: 37252 • Following: 1952 • Tweets: 9694 • Item ID: DS0164970202

Congratulations to John Curtin Distinguished Professor Steven Tingay (@stingay) on being named joint Scientist of the Year & #PhD candidate Ms Morgan Cox for joint winning the @exxonmobil Student Scientist of the Year at the 2020 #WASciAwards! □ Read: <https://t.co/tbzWqygrE1> <https://t.co/XpdMpDmaTb>

 37,252

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 **Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms Morgan Cox have be...** 

30 Sep 2020 1:04AM • Twitter by [Curtin Media](#)
Followers: 3850 • Following: 3735 • Tweets: 9559 • Item ID: DS0164937963

Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms Morgan Cox have been acknowledged for their outstanding research and leadership within the WA #science community. Read more: <https://t.co/Dv0LjOFHMQ> @stingay @ICRAR <https://t.co/66EWQwE5eZ>

 3,850

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **UWA scientists recognised in Premier's Science Awards** 

30 Sep 2020 1:32AM • [nationaltribune.com.au](#)
Brief: SSTC • 481 words • Market: Australia • Item ID: 1340783734

A researcher from The University of Western Australia who has made significant advancements in understanding the molecular programming in cells which determine how living creatures function has been awarded joint Scientist of the Year in the 2020...

[Read on source site](#)

 **RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms M...** 

30 Sep 2020 1:04AM • Twitter by [Tony Brun](#)
Followers: 1514 • Following: 3947 • Tweets: 1976 • Item ID: DS0165061256

RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms Morgan Cox have been acknowledged for their outstanding research and leadership within the WA #science community. Read more: <https://t.co/Dv0LjOFHMQ> @stingay @ICRAR <https://t.co/66EWQwE5eZ>

 1,514

[Read on source site](#) | [Favourite](#) | [Retweet](#) | [Reply](#)

 **UWA scientists recognised in Premier's Science Awards** 

30 Sep 2020 1:28AM • [miragenews.com](#)
Brief: SSTC • 474 words • Market: Australia • Item ID: 1340782517

A researcher from The University of Western Australia who has made significant advancements in understanding the molecular programming in cells which determine how living creatures function has been awarded joint Scientist of the Year in the 2020...

AUD 315  138

[Read on source site](#)

 **RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms M...** 

30 Sep 2020 1:04AM • Twitter by [ICRAR](#)

Followers: 2881 • Following: 279 • Tweets: 3726 • Item ID: DS0165047919

RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms Morgan Cox have been acknowledged for their outstanding research and leadership within the WA #science community. Read more: <https://t.co/Dv0LjOFHMQ> @stingay @ICRAR <https://t.co/66EWQwE5eZ>

 2,881

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 **RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms M...** 

30 Sep 2020 1:04AM • Twitter by [Aust Science Channel](#)

Followers: 15793 • Following: 3240 • Tweets: 33496 • Item ID: DS0165048235

RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms Morgan Cox have been acknowledged for their outstanding research and leadership within the WA #science community. Read more: <https://t.co/Dv0LjOFHMQ> @stingay @ICRAR <https://t.co/66EWQwE5eZ>

 15,793

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 **RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms M...** 

30 Sep 2020 1:04AM • Twitter by [Paul Hancock](#)

Followers: 308 • Following: 140 • Tweets: 1440 • Item ID: DS0165053958

RT @CurtinMedia: Leading @CurtinUni astronomer named joint Scientist of the Year 2020 □ Professor Steven Tingay and Ms Morgan Cox have been acknowledged for their outstanding research and leadership within the WA #science community. Read more: <https://t.co/Dv0LjOFHMQ> @stingay @ICRAR <https://t.co/66EWQwE5eZ>

 308

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 **Leading Curtin astronomer named joint Scientist of the Year 2020** 

30 Sep 2020 12:40AM • Curtin University Australia

Brief: SSTC • 501 words • Market: Australia • Item ID: 1340769064

Curtin University has congratulated John Curtin Distinguished Professor Steven Tingay on being named joint Scientist of the Year at the 2020 Western Australian Premier's Science Awards. John Curtin Distinguished Professor Steven Tingay Professor Tinga...

AUD 2,131

[Read on source site](#)

 **WA's leading scientists recognised in Premier's Science Awards** 
 30 Sep 2020 12:32AM • Media Statements
 Brief: SSTC • 729 words • Market: Australia • Item ID: 1340766896

Professor Ryan Lister from UWA and Professor Steven Tingay from Curtin University jointly named Scientist of the Year Additional six recipients lauded, including WA Science Hall of Fame inductee Professor Mark Randolph Awards highlight Western...

AUD 345  367

[Read on source site](#)

 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 
 29 Sep 2020 2:00PM • broomead.com.au by [Bethany Hiatt](#)
 Brief: SSTC • 825 words • Market: Australia • Item ID: 1340919840

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 9  9

[Read on source site](#)

 **SLEUTHS OF LIFE & THE UNIVERSE** 
 30 Sep 2020 12:00AM • [West Australian](#)
 Brief: SSTC • 875 words • Market: Australia • Item ID: 1340534169

Recognition for WA's top researchers An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award.

AUD 25,929  135,996

[View original](#)

 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 
 29 Sep 2020 2:00PM • bunburyherald.com.au by [Bethany Hiatt](#)
 Brief: SSTC • 825 words • Market: Australia • Item ID: 1340920185

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 3  3

[Read on source site](#)

 **SLEUTHS OF LIFE & THE UNIVERSE** 
 30 Sep 2020 12:00AM • [West Australian](#)
 Brief: SSTC • 877 words • Market: Australia • Item ID: 1340486430

Recognition for WA's top researchers An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award.

AUD 25,438  135,996

[View original](#)

 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

29 Sep 2020 2:00PM • albanyadvertiser.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340919841

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 14  12

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 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

 29 Sep 2020 2:00PM • narroginobserver.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340931913

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 1  1

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 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

 29 Sep 2020 2:00PM • soundtelegraph.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340495607

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 13  12

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 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

29 Sep 2020 2:00PM • pilbaranews.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340931914

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 17  18

[Read on source site](#)

 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

29 Sep 2020 2:00PM • Countryman by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340920126

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 16,214  13,776

[Read on source site](#)

Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000

29 Sep 2020 2:00PM • kimberleyecho.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340467829

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

[Read on source site](#)



Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000

29 Sep 2020 2:00PM • mbtimes.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340932181

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

[Read on source site](#)

AUD 1 1



Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000

29 Sep 2020 2:00PM • West Australian by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340465838

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

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AUD 195 263



Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000

29 Sep 2020 2:00PM • geraldtonguardian.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340465851

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

[Read on source site](#)

AUD 4 4



Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000

29 Sep 2020 2:00PM • South Western Times by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340931924

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

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AUD 14 14



 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

29 Sep 2020 2:00PM • harveyreporter.com.au by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340920193

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 6  4

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 **RT @uwaoceans: Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morga...** 

29 Sep 2020 12:32PM • Twitter by [UWA Research](#)
Followers: 4400 • Following: 1632 • Tweets: 8106 • Item ID: DS0164890390

RT @uwaoceans: Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morgan Cox!
<https://t.co/FLRWG9AzQo>

 4,400

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 **Premier's Science Awards: Ryan Lister and Steven Tingay to share Scientist of the Year title and \$50,000** 

29 Sep 2020 2:00PM • [Kalgoorlie Miner](#) by [Bethany Hiatt](#)
Brief: SSTC • 825 words • Market: Australia • Item ID: 1340467849

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award. Biochemist Ryan Lister and internationally renowned...

AUD 8  8

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 **RT @uwaoceans: Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morga...** 

29 Sep 2020 12:32PM • Twitter by [SubseaTweeters](#)
Followers: 44 • Following: 103 • Tweets: 94 • Item ID: DS0164929838

RT @uwaoceans: Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morgan Cox!

 44

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 **RT @uwaoceans: Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morga...** 

29 Sep 2020 12:32PM • Twitter by [oceanworksuwa](#)
Followers: 104 • Following: 188 • Tweets: 171 • Item ID: DS0164890417

RT @uwaoceans: Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morgan Cox!
<https://t.co/FLRWG9AzQo>

 104

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 **Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morgan Cox!** 

29 Sep 2020 12:32PM • Twitter by [UWA Oceans Institute](#)
Followers: 2948 • Following: 532 • Tweets: 3425 • Item ID: DS0164890370

Massive congratulations to @UWAresearch-er and Oceans Institute member @ToddBondWA and @CurtinUni's Morgan Cox!

 2,948

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [Paul Nicholls](#)
Followers: 818 • Following: 1020 • Tweets: 5183 • Item ID: DS0165057341

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

 818

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [Curtin University](#)
Followers: 37252 • Following: 1952 • Tweets: 9696 • Item ID: DS0164971013

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

 37,252

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 **Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of th...** 

29 Sep 2020 11:52AM • Twitter by [Prof Peter Klinken](#)
Followers: 2052 • Following: 152 • Tweets: 510 • Item ID: DS0164887348

Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

 2,052

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [Morgan](#)
Followers: 76 • Following: 134 • Tweets: 99 • Item ID: DS0164967537

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

 76

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [ExxonMobil Australia](#)
Followers: 5467 • Following: 164 • Tweets: 2300 • Item ID: DS0164933727

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

 5,467

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [Chris Moran](#)
Followers: 237 • Following: 377 • Tweets: 2127 • Item ID: DS0164895915

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [Trisha Lee](#)
Followers: 82 • Following: 270 • Tweets: 271 • Item ID: DS0165199008

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

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 **RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student...** 

29 Sep 2020 11:52AM • Twitter by [uL brc™ \(Perth Today\)](#)
Followers: 37980 • Following: 13379 • Tweets: 67012 • Item ID: DS0164887385

RT @ChiefSciWA: Congratulations Morgan Cox and Todd Bond, just announced as joint winners of the 2020 ExxonMobil Student Scientist of the Year! #WASciAwards @exxonmobil_au @uwanews @CurtinUni <https://t.co/wzTRHb05Fs>

 37,980

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 **Check out this wonderful video summarising the amazing capabilities of the @CurtinUni Space Science and Technology Centr...** 

29 Sep 2020 11:36AM • Twitter by [Curtin HIVE](#)
Followers: 481 • Following: 265 • Tweets: 2714 • Item ID: DS0164886139

Check out this wonderful video summarising the amazing capabilities of the @CurtinUni Space Science and Technology Centre <https://t.co/7DK4hJNTAK> featuring @lycrageek @PlanetOfLucy @gbenedix @SpaceKatarina @CurtinSpaceSci @FireballsSky Oh, and it's filmed at the HIVE. 📺 <https://t.co/pZBqOXnoHm>

 481

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Bunbury footballer working hard to kick goals

17 Sep 2020 3:05AM • kimberleyecho.com.au by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334149664

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

[Read on source site](#)

Bunbury footballer working hard to kick goals

17 Sep 2020 3:05AM • soundtelegraph.com.au by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334149336

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

AUD 7 12

[Read on source site](#)

Bunbury footballer working hard to kick goals

17 Sep 2020 3:05AM • West Australian by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334148283

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

AUD 99 263

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Bunbury footballer working hard to kick goals

17 Sep 2020 3:05AM • bunburyherald.com.au by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334146721

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

AUD 2 3

[Read on source site](#)

Bunbury footballer working hard to kick goals

17 Sep 2020 3:05AM • Kalgoorlie Miner by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334140573

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

AUD 4 8

[Read on source site](#)

Bunbury footballer working hard to kick goals

17 Sep 2020 3:05AM • geraldtonguardian.com.au by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334149658

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

AUD 2 4

[Read on source site](#)

**Bunbury footballer working hard to kick goals**

17 Sep 2020 3:05AM • South Western Times by Jackson Barrett
Brief: SSTC • 459 words • Market: Australia • Item ID: 1334166943



It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield...

AUD 7 14

[Read on source site](#)

**Working hard to kick goals**

17 Sep 2020 12:00AM • [South Western Times](#)
Brief: SSTC • 498 words • Market: Australia • Item ID: 1333924823



t was only a couple of years ago that Bunbury footballer IElla Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again. Fast forward to 2020 and Ella is captain and a key midfield cog for the Claremont women's side in a season with innumerable off-field challenges - all at the ...

AUD 2,210 5,946

[View original](#)

**Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science...**

16 Sep 2020 10:53AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 100 words • Market: Australia • Item ID: X00084208331



Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. SMS: Neil wonders if anybody from the panel today is developing robots with...

AUD 234 7,000

**Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science...**

16 Sep 2020 10:50AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 164 words • Market: Australia • Item ID: X00084208245



Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. SMS: Listener says he will start new job automation and robotics on Monday....

AUD 518 7,000

**Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science...**

16 Sep 2020 10:42AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 334 words • Market: Australia • Item ID: X00084207959



Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. Forbes discusses the difference in challenges and technologies they used wh...

AUD 1,256 7,000

**Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science...**

16 Sep 2020 10:36AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 309 words • Market: Australia • Item ID: X00084207765

Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. Smith mentions that there is a debate around whether WA is being too relian...

AUD 898 7,000

**Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science...**

16 Sep 2020 10:24AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 262 words • Market: Australia • Item ID: X00084207379

Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. Smith says many people might be thinking the funds should be used in Earth ...

AUD 1,523 10,000

**Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science...**

16 Sep 2020 10:32AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 154 words • Market: Australia • Item ID: X00084207658

Continuing Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. SMS: Dan wonders if there are any training programs for unskilled workers ...

AUD 658 7,000

**Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Techno...**

16 Sep 2020 10:15AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 254 words • Market: Australia • Item ID: X00084207344

Panel Discussion with Australian Remote Operations for Space and Earth chairman David Flanagan, Space Science and Technology Centre deputy director Renae Sayers and Australian Space Automation, Artificial Intelligence and Robotics Control Complex head Sam Forbes. Forbes says their organisation is simply known as SpAARC. Smith mentions that Perth ha...

AUD 2,128 10,000

 **Interview with former NASA astronaut Pamela Melroy. Smith says NASA only had two female shuttle commanders and Melroy is...** 



16 Sep 2020 10:07AM • [ABC Radio Perth](#) by [Damian Smith](#)
Brief: SSTC • 174 words • Market: Australia • Item ID: X00084206659

Interview with former NASA astronaut Pamela Melroy. Smith says NASA only had two female shuttle commanders and Melroy is one of them. He notes that Melroy is also the co-founder of Australian Remote Operations for Space and Earth and it has chosen Perth as its headquarters. Melroy discusses the idea of having this consortium in Australia, noting th...

AUD 1,554  10,000

 **Love all things #space? Join Renae Sayers & Prof Phil Bland from @CurtinSpaceSci at Virtual #OpenDay on 13 September...** 

10 Sep 2020 6:31AM • Twitter by [Curtin University](#)
Followers: 37200 • Following: 1951 • Tweets: 9656 • Item ID: DS0162718843

Love all things #space? Join Renae Sayers & Prof Phil Bland from @CurtinSpaceSci at Virtual #OpenDay on 13 September to unravel the origins of the Solar System, peek at a freshly found #meteorite & learn more about a sandwich-sized space probe. REGISTER: <https://t.co/LGSVDZDqIB> <https://t.co/IHa4R8wq2R>

 37,200

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 **Perth 'key' to opening the gateway to exploring the universe** 



16 Sep 2020 6:29AM • [ABC Online](#)
Brief: SSTC • 97 words • Market: Australia • Item ID: 1333580940

A race is underway to take that world-class technology from the mining sector and adapt it for remote operations on the Moon, Mars and beyond. Damian takes a look at how well-positioned Western Australia is to capitalise on this new space race. ...

AUD 2,241  6,275

[Read on source site](#)

 **Interview with Dr Aaron Cavosie, planetary scientist, Curtin University. Cavosie says the crater discovered by Jason Mey...** 

03 Sep 2020 2:24PM • [ABC Radio Darwin](#) by [Mikaela Simpson](#)
Brief: SSTC • 95 words • Market: Australia • Item ID: X00084037460

Interview with Dr Aaron Cavosie, planetary scientist, Curtin University. Cavosie says the crater discovered by Jason Meyers in outback WA could turn out to be true based on the pictures sent to him. He states he saw rocks broken apart in unique, unnatural ways, making him believe it was due to a meteorite impact. He adds experts will have to use hi...

AUD 2,238

 **What's it like to be an astro-geologist? Just ask Professor Gretchen Benedix! See her video here: <https://t.co/poovxzt1I...>** 

13 Sep 2020 5:39AM • Twitter by [Curtin HIVE](#)
Followers: 476 • Following: 262 • Tweets: 2699 • Item ID: DS0163070909

What's it like to be an astro-geologist? Just ask Professor Gretchen Benedix! See her video here: <https://t.co/poovxzt1Ih> #CurtinOpenDay @CurtinUni @gbenedix @FireballsSky

 476

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 **Interview with Anna Moore, Director, ANU Institute of Space. Moore says a meteor is a piece of rock that comes out of th...** 

 03 Sep 2020 7:35AM • [ABC Radio Sydney](#) by [Wendy Harmer and Robbie Buck](#)
Brief: SSTC • 158 words • Market: Australia • Item ID: X00084029707

Interview with Anna Moore, Director, ANU Institute of Space. Moore says a meteor is a piece of rock that comes out of the solar system caused by gravity and enters an atmosphere. She states Australia is leading the world in tracking down through triangulation and finding where meteors end up. Moore adds a team from Curtin University led by Phil Bla...

AUD 14,671  110,000

 **Meteor crater discovered while drilling for gold in outback WA estimated to be 100 million years old** 

 02 Sep 2020 9:08AM • [ABC Online](#) by [By Jarrod Lucas](#)
Brief: SSTC • 974 words • Market: Australia • Item ID: 1326879554

Geologists say they have discovered a large meteorite crater in outback Western Australia, which could be up to five times bigger than the famous Wolfe Creek Crater in the state's remote north. Key points: A team of geologists led by geological...

AUD 14,830  6,275

[Read on source site](#)

 **Interview with Curtin University planetary scientist Dr Aaron Cavosie. Mitsopoulos says a team of geologists drilling fo...** 

 02 Sep 2020 9:24AM • [ABC Radio Perth](#) by [Russell Woolf and Nadia Mitsopoulos](#)
Brief: SSTC • 212 words • Market: Australia • Item ID: X00084017786

Interview with Curtin University planetary scientist Dr Aaron Cavosie. Mitsopoulos says a team of geologists drilling for gold have stumbled upon an impact crater believed to be from a meteorite. She says it happened in Ora Banda. Geophysicist Jason Meyers says he recognised meteorites when he visited the site. He explains meteorites hit the ground...

AUD 4,711  25,000

 **Meteor crater discovered while drilling for gold in outback WA estimated to be 100 million years old** 

02 Sep 2020 9:10AM • [WEB MSN Australia](#)
Brief: SSTC • 830 words • Market: Australia • Item ID: 1326881141

Geologists say they have discovered a large meteorite crater in outback Western Australia, which could be up to five times bigger than the famous Wolfe Creek Crater in the state's remote north. The impact crater was located near the historic Goldfield...

[Read on source site](#)



DECEMBER, 2020

MOLTEN MAGMA ON THE MOVE



Australian Mining Review, National

Page 1 of 2

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International research led by geologists from Curtin University has found that a volcanic province in the Indian Ocean was the world's most continuously active — erupting for 30 million years — fuelled by a constantly moving 'conveyor belt' of magma.

It's believed this was created by shifts in the seabed, continuously made space available for the molten rock to flow for millions of years, beginning around 120m years ago.

Research lead Qiang Jiang, a PhD candidate from Curtin's School of Earth and Planetary Sciences, said the studied volcanoes were in the Kerguelen Plateau, located in the Indian Ocean, about 3000km south west of Fremantle, WA.

"Extremely large accumulations of volcanic rocks — known as large volcanic provinces — are very interesting to scientists due to their links with mass extinctions, rapid climatic disturbances, and ore deposit formation," Mr Jiang said.

"The Kerguelen Plateau is gigantic, almost the size of WA. Now imagine this area of land covered by lava, several kilometres thick, erupting at a rate of about 20cm every year.

"Twenty centimetres of lava a year may not sound like much but, over an area the size of WA, that's equivalent to filling up 184,000 Olympic-size swimming pools to the brim with lava every single year. Over the total eruptive duration, that's equivalent to 5.5 trillion lava-filled swimming pools!

"This volume of activity continued for 30m years, making the Kerguelen Plateau home to the longest continuously erupting

supervolcanoes on Earth.

"The eruption rates then dropped drastically some 90m years ago, for reasons that are not yet fully understood.

"From then on, there was a slow but steady outpouring of lava that continued right to this day, including the 2016 eruptions associated with the Big Ben volcano on Heard Island, Australia's only active volcano."

Co-researcher Dr Hugo Olierook, also from Curtin's School of Earth and Planetary Sciences, explained such a long eruption duration requires very peculiar geological conditions.

"After the partial breakup of the supercontinent Gondwana, into the pieces now known as Australia, India and Antarctica, the Kerguelen Plateau began forming on top of a mushroom-shaped mantle upwelling, called a mantle plume, as well as along deep sea, mid-oceanic mantle ridges," he said.

"The volcanism lasted for so long because magmas caused by the mantle plume were continuously flowing out through the mid-oceanic ridges, which successively acted as a channel, or a 'magma conveyor belt' for more than 30m years.

"Other volcanoes would stop erupting because, when temperatures cooled, the channels became clogged by 'frozen' magmas.

"For the Kerguelen Plateau, the mantle plume acts as a Bunsen burner that kept



DECEMBER, 2020

MOLTEN MAGMA ON THE MOVE

Australian Mining Review, National



Page 2 of 2

allowing the mantle to melt, resulting in an extraordinarily long period of eruption activity.”

Research co-author, Professor Fred Jourdan, Director of the WA Argon Isotope Facility at Curtin University, said the team used an argon-argon dating technique to date the lava flows, by analysing a range of black basaltic rocks taken from the bottom of the sea floor.

“Finding this long, continuous eruption activity is important because it helps us to understand what factors can control the start and end of volcanic activity,” Professor Jourdan said.

“This has implications for how we understand magmatism on Earth, and on other planets as well.” **AMR**



22 OCT, 2020

Science has an impact

Southern Gazette, Perth



Page 1 of 2

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Science has an impact

Nadia Budihardjo

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space.

UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the Year in the Premier's Science Awards.

Ms Cox, from Como, is a PhD candidate and Curtin University's School of Earth and Planetary Sciences planetary geologist.

She said she wanted to form her own research group and educate the public on her research of asteroid impacts on Earth.

"I'm trying to create a better understanding within WA and Australia of what asteroid impacts have done to the Earth; how they evolve our planet, change climate and create extinction events," she said.

"I think it's super important to understand

that in terms of the Earth's history."

Ms Cox said winning the award had motivated her and told school students that the sky was no longer the limit.

"When I was in high school, I didn't realise I could do this kind of stuff that I'm doing right now,"

she said. "That you can be a student in WA and then go work or do internships and collaborate with NASA and the Japanese space agency."

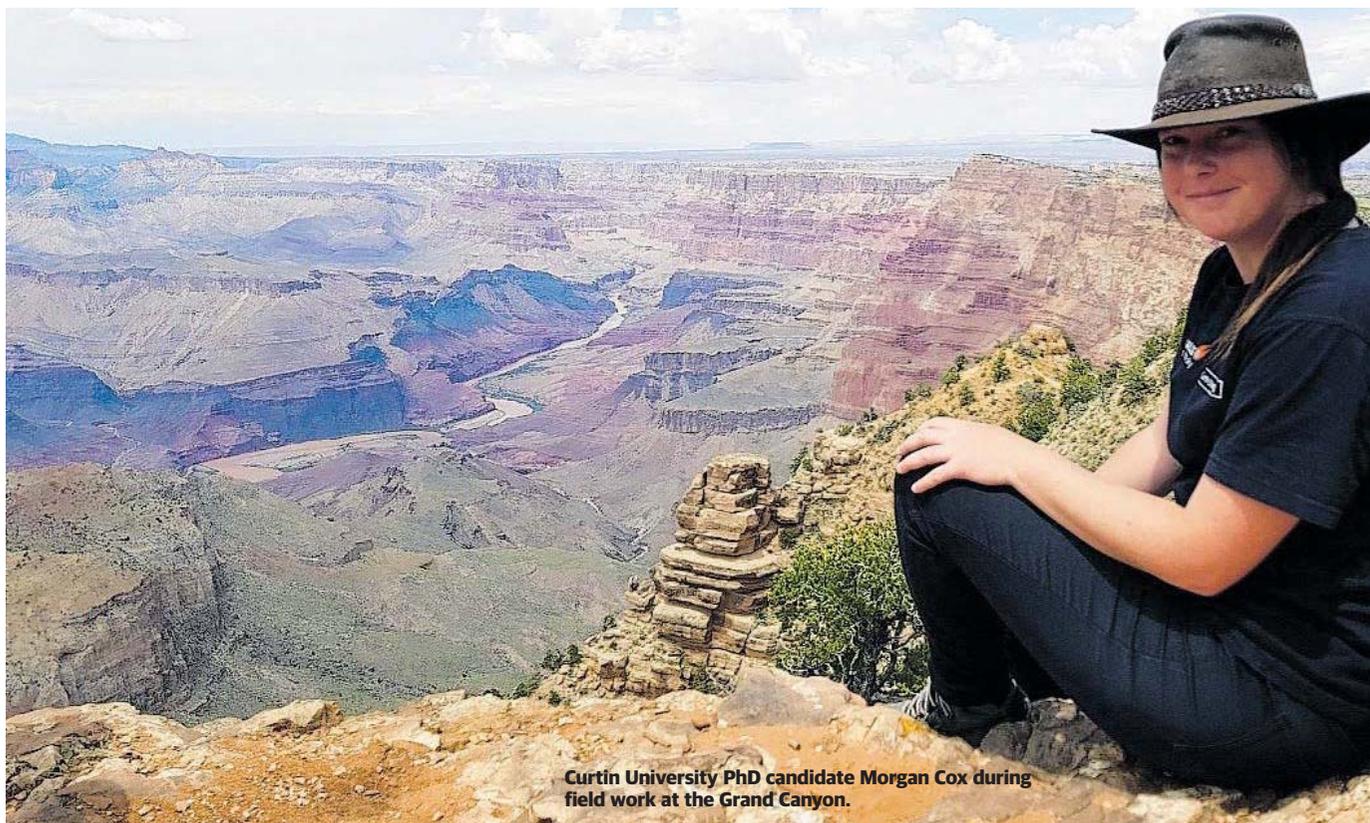


22 OCT, 2020

Science has an impact



Southern Gazette, Perth



Curtin University PhD candidate Morgan Cox during field work at the Grand Canyon.



22 OCT, 2020

Science has an impact



Southern Gazette, Perth

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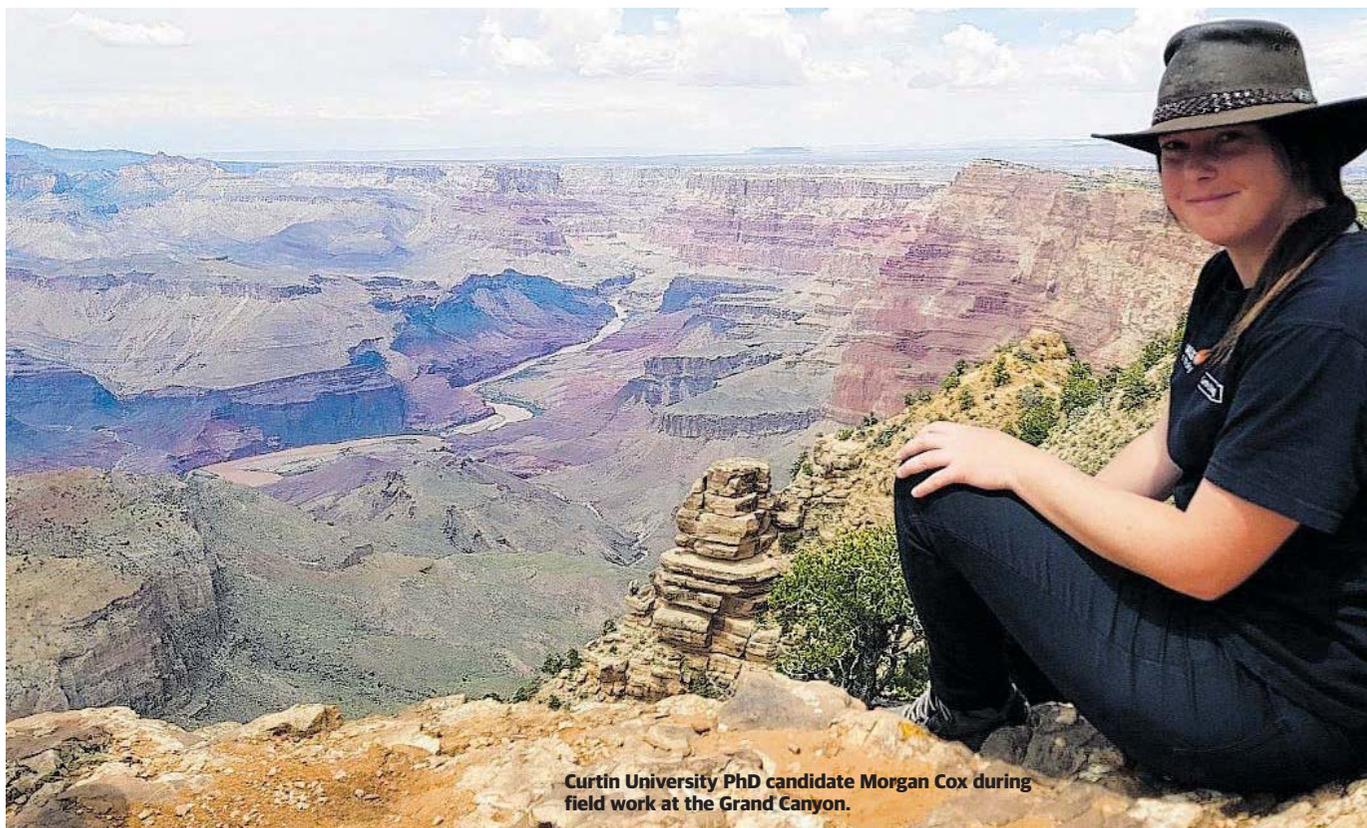


22 OCT, 2020

Science has an impact



Southern Gazette, Perth



Curtin University PhD candidate Morgan Cox during field work at the Grand Canyon.



14 OCT, 2020

Previous theories debunked

Canning Examiner, Perth



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Previous theories debunked

New international research into the Moon provides scientists with insights as to how and why its crust is magnetised, essentially 'debunking' one of the previous longstanding theories.

Australian researcher and study co-author Dr Katarina Miljkovic, from the Curtin Space Science and Technology Centre, located within the School of Earth and Planetary Sciences at Curtin University, explained how the new research, published by Science Advances, expands on decades of work by other scientists.

"There are two long term hypotheses associated with why the Moon's crust might be magnetic: One is that the magnetisation is the result of an ancient dynamo in the lunar core, and the other is that it's the result of an amplification of the interplanetary magnetic field, created by meteoroid impacts," she said.

"Our research is a deep numerical study that challenges that second theory – the impact-related magnetisation – and it essentially 'debunks' it.

"We found that meteoroid impact plasmas interact much more weakly with the Moon compared to the magnetisation levels obtained from the lunar crust.

"This finding leads us to conclude

that a core dynamo is the only plausible source of the magnetisation of the Moon's crust."

To carry out her portion of the research, Dr Miljkovic provided the team with numerical estimates of the vapour formation that occurred during large meteoroid impact bombardment on the Moon approximately four billion years ago.

"When we look at the Moon with the naked eye, we can see these large craters caused by ancient meteoroid impacts.

"They are now filled with volcanic maria, or seas, causing them to look darker on the surface" she said.



A Curtin University scientist has debunked previous myths held about the Moon.



08 OCT, 2020

Science making an impact



Western Suburbs Weekly, Perth

Page 1 of 2

[Return to media item](#)**UWA PhD researcher Todd Bond.****Nadia Budihardjo**

THIS year's Student Scientist of the Year award recipients have gone from the depths of the oceans to the far reaches of outer space.

UWA PhD researcher Todd Bond and Curtin University PhD student Morgan Cox were jointly named Student Scientist of the Year in the Premier's Science Awards.

Mr Bond, from Wembley, said the award was an opportunity to celebrate the contribution made by WA scientists.

"It's recognising the work that young scientists, student scientists, are doing and the impact that they're having in WA and the world," he said.

Mr Bond's PhD focuses on the interaction of fish and fisheries with subsea infra-

structure, particularly oil and gas pipeline.

Ms Cox is a PhD candidate and Curtin University's School of Earth and Planetary Sciences planetary geologist.

"I'm trying to create a better understanding within WA and Australia of what asteroid impacts have done to the Earth; how they evolve our planet, change climate, and create extinction events," she said.

Floreat resident Ryan Lister was awarded Scientist of the Year.



08 OCT, 2020

Science making an impact

Western Suburbs Weekly, Perth



Morgan Cox. Picture: Nicholas Kieran Smith



08 OCT, 2020

Science has an impact



Canning Gazette, Perth

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Curtin University PhD candidate Morgan Cox during field work at the Grand Canyon.



07 OCT, 2020

'It doesn't feel like working'



Canning Examiner, Perth

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'It doesn't feel like working'

BY TOM SHANAHAN

A Curtin University student has had her research into asteroid impacts recognised with a prestigious award.

Curtin University PHD candidate Morgan Cox has been named joint Student Scientist of the Year at the 2020 Western Australian Premier's Science Awards.

Ms Cox is a planetary geologist who investigates the origins and evolution of the earth through studying the microbial contents of asteroid impacts.

She said her asteroid research can help scientists understand how the Earth evolved.

"Minerals from craters can give us information on whether asteroid impacts from early-earth changed the planet's climate or caused a massive extinction," she said. "Because there isn't much evidence of large asteroid impacts from early-earth left due to plate tectonics and rock erosion, I look at micro-scale minerals called zircon to try and find out if there is any evidence of asteroid impacts that have since been recycled within the earth."

Ms Cox was recognised alongside UWA researcher Mr Todd Bond for their outstanding research and engagement within the WA scientific community.

She said the award is recognition for all of the hard work she has put in throughout her university degree.

"I think it is really cool to show that if you work hard you can be recognised for the effort and work that you put in," she said. "It's re-

ally incredible to be able to help the community understand more about the geology of Western Australia."

Ms Cox was selected to conduct research of the Chicxulub Crater as part of a three-month scholarship at the NASA Johnson Space Centre in Houston.

The Chicxulub Crater is a 66-million-year-old impact area in Mexico, widely theorised to have led to the extinction of all non-avian dinosaurs.

She said the chance to work on such projects in institutions like NASA is what drives her passion.

"It was super exciting to be able walk through the hallways, past astronauts and be able to see the amazing science going on at the space centre," she said

"It doesn't even feel like I am working, if you find something you are passionate about you are never going to work a day of your life."



John McCann presenting Morgan Cox with ExxonMobil Student Scientist of the Year award.



03 OCT, 2020

UWA scientists top Premier's awards



Subiaco Post, Perth

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UWA scientists top Premier's awards

A University of WA researcher who has made significant advancements in understanding the molecular programming in cells that determine how living creatures function has been awarded joint Scientist of the Year in the 2020 Premier's Science Awards.

Professor Ryan Lister of Floreat, pioneered the field of epigenomics – the study of the molecular code that controls gene activity.

His research into plant and animal systems has revolutionised our understanding of genome regulation, stem cell biology and brain development.

On Tuesday night he was named joint winner along with Professor Steven Tingay from Curtin University.

Four other UWA scientists were recognised including marine scientist Todd Bond, student Simone Harrington, audiologist Dr Chris Brennan-Jones (who also works for the Telethon Kids Institute) and geotechnical engineer Professor Mark Randolph, a former Scientist of the Year who was inducted into the Science Hall of Fame.

Mr Bond, from the UWA School of Biological Sciences, was named joint ExxonMobil Student Scientist of the Year with Morgan Cox from Curtin University.

He used his knowledge of underwater video sampling techniques to understand how fish and fisheries interact with oil and gas infrastructure.

His work will help increase understanding of the ocean and aid improvements to man-made infrastructure operations offshore.

Ms Harrington was named Shell Aboriginal STEM Student of the Year and is the first Aboriginal student to under-

take the combined Doctor of Philosophy and Master of Clinical Psychology at UWA.

A proud Kidja woman and active student ambassador, Ms Harrington was a finalist in the same category of the Premier's Science Awards last year.

Dr Brennan-Jones, a senior UWA research fellow and team leader of Ear Health at the Wesfarmers Centre of Vaccines

and Infectious Diseases, was awarded Woodside Early Career Scientist of the Year.

Dr Brennan-Jones is an audiologist whose work has led to dramatic cuts in treatment waiting times for children affected by middle ear disease.

Internationally recognised for his expertise in offshore geotechnics, Professor Randolph founded the UWA Centre for

Offshore Foundation Systems in 1997, one of the most sophisticated research and modelling facilities in offshore geomechanics and engineering in the world.

His leadership has established Perth as an internationally recognised hub for excellence in geotechnical engineering and attracted many world-leading companies as well as academics.

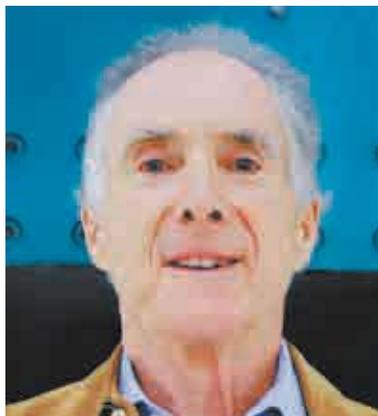


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UWA scientists top Premier's awards



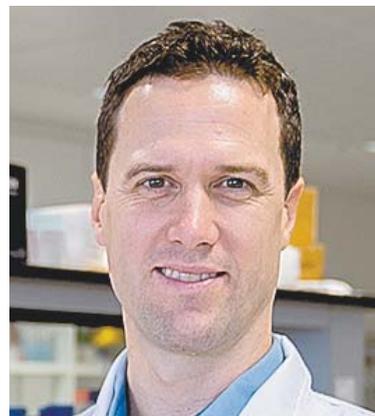
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Mark Randolph



Todd Bond



Ryan Lister



30 SEP, 2020

SLEUTHS OF LIFE & THE UNIVERSE



West Australian, Perth

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Recognition for WA's top researchers

SLEUTHS OF LIFE & THE UNIVERSE

BETHANY HIATT

An astrophysicist striving to solve problems as wide as the universe and a pioneer in the study of life's smallest building blocks are this year's joint winners of WA's most prestigious science award.

Biochemist Ryan Lister and internationally renowned radio astronomer Steven Tingay will share the title of Scientist of the Year and the top prize of \$50,000 in the Premier's Science Awards, announced last night.

Professor Tingay, based at Curtin University, played a leading role in securing the multinational \$1.7 billion Square Kilometre Array telescope for WA.

Now deputy executive director of the International Centre for Radio Astronomy Research, Professor Tingay said the SKA facility would help researchers understand how stars and

galaxies were born.

"Quite early on in the universe, in the first billion years after the Big Bang, it's those stars and galaxies that evolved over the subsequent billions of years that ended up producing our solar system, producing life on Earth," he said.

"So that early part of the evolution of the universe, the birth of the first stars

and galaxies, is a missing chapter in the book that describes the evolution of the universe. And the SKA telescope that will be built in WA is specifically designed to try and answer that question."

The work of Professor Lister, based at the Harry Perkins Institute of Medical Research at the University of WA, has been just as groundbreaking.

A pioneer in the field of epigenomics, the study of the molec-

ular code that controls gene activity, he generated the world's first complete maps of the human epigenome.

His research in plant and animal systems has revolutionised understanding of genome regulation, stem cell biology and brain development.

The discoveries are already being used across different fields including prenatal testing, cancer detection and regenerative medicine technologies. Professor Lister said his work examined the "chemical tags" that told cells how to use information in their underlying DNA sequence.

While he initially focused on engineering at university, he switched to studying



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molecular biology and genetics after becoming fascinated by “probably one of the most amazing examples of complex structures, which are living life forms”.

“And how the enormous complexity that we see in them, from a tree to a dog to a human, can emerge from the information that is contained within DNA sequence,” he said.

Both of this year’s top recipients said they hoped the awards would help inspire the next generation of scientists and encourage more young people to study STEM subjects.

“We face so many challenges in the world, many of them related to biological processes,” Professor Lister said. “Whether it’s pathogens that are infecting us and the need to figure out how we can better combat them, or the enormous challenges of climate change and how we may need to better adapt our crops and our agricultural systems.”

Professor Tingay said astronomy was a great vehicle to spark children’s interest in science.

A book about the solar system and the universe, given to him by an uncle at the age of five, was the inspiration for his future career.

“Almost everyone has stood outside at night, looked at the stars and wondered about where did it all come from, what’s it all about,” he said.

Other scientists to be honoured this year include Dr Chris Brennan-Jones, from the Telethon Kids Institute, for his work to prevent hearing loss in children (Woodside early career scientist of the year) and psychology student Simone Harrington, left, from UWA (Shell Aboriginal STEM student of the year).

The WA Museum’s Diving Deep in the #NingalooCanyons picked up the Chevron science engagement initiative of the year, while science hall of fame inductee Professor Mark Randolph, from UWA, was recognised for his lifelong contribution to geomechanics. WA’s Chief Scientist Peter Klinken, who chaired the judging panel, said it was always difficult to choose the State’s top science minds and the calibre of nominations had again been exceptionally high.

“WA has remarkable research talent in a broad range of fields and it’s important that we have the Premier’s Science Awards to celebrate that wealth of talent and to encourage the new generation of scientists coming through,” he said. “This is especially the case this year when our State’s prowess in science and technology has come to the fore to assist in dealing with the COVID-19 pandemic.”

HONOUR ROLL
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-
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-
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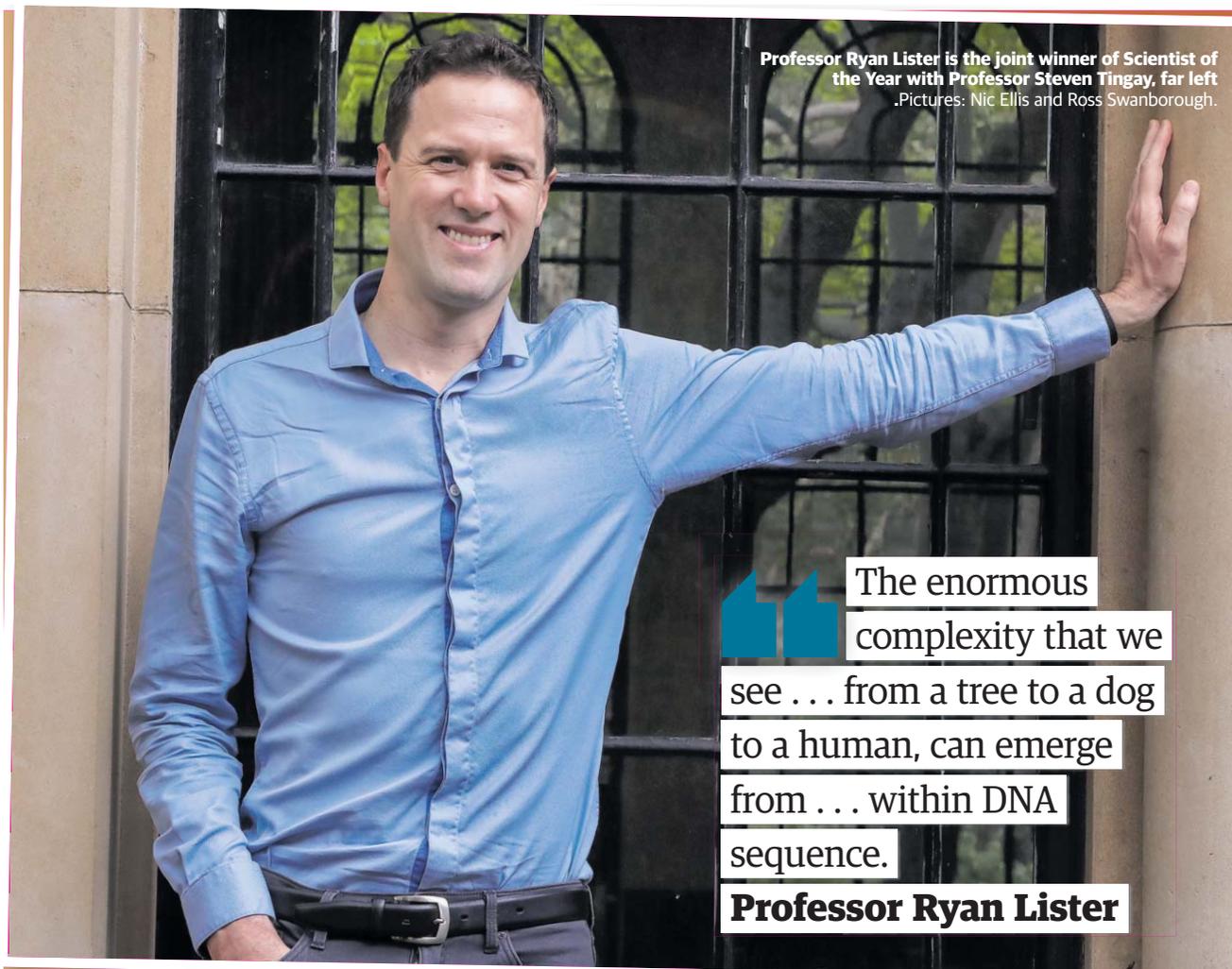


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Professor Ryan Lister is the joint winner of Scientist of the Year with Professor Steven Tingay, far left. Pictures: Nic Ellis and Ross Swanborough.

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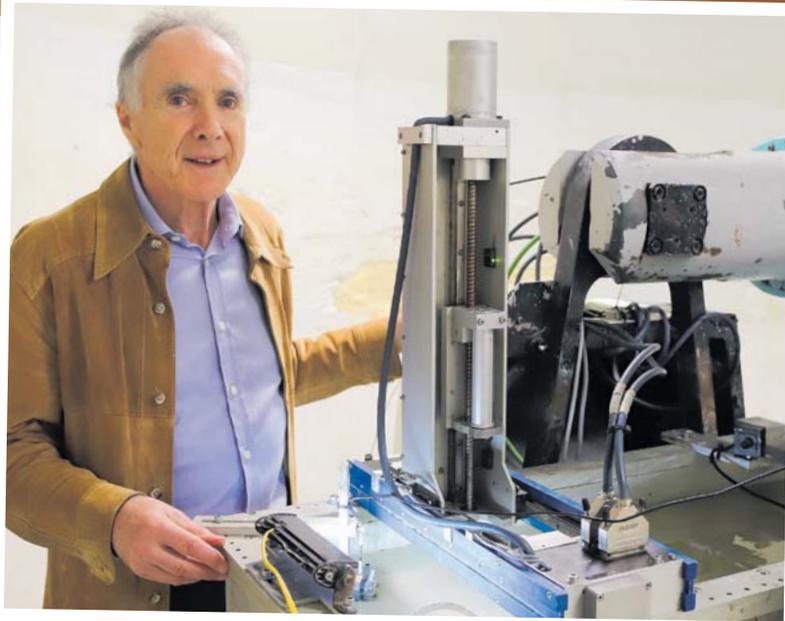


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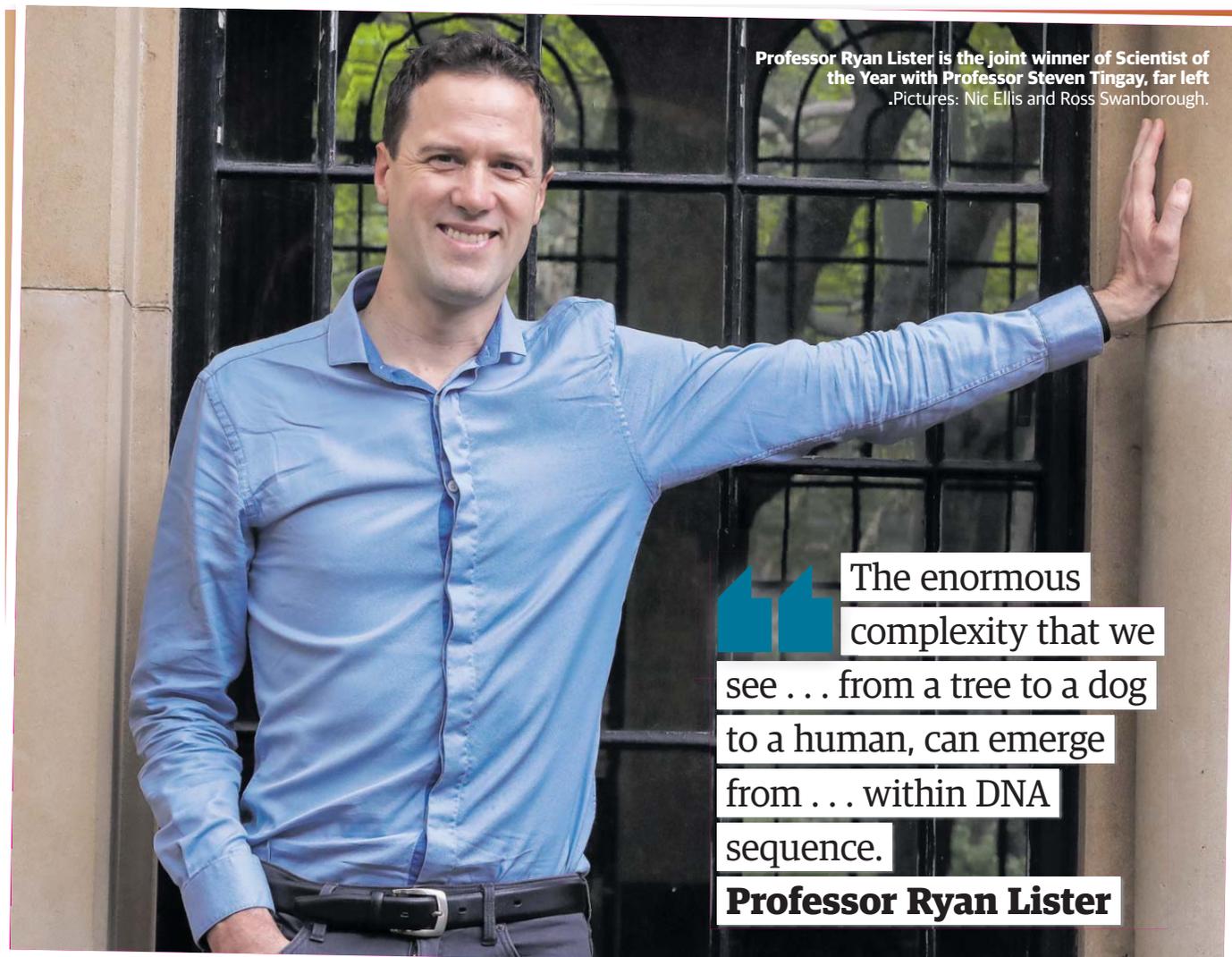


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Professor Ryan Lister



17 SEP, 2020

Working hard to kick goals

South Western Times, Bunbury



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Working hard to kick goals

JACKSON BARRETT

It was only a couple of years ago that Bunbury footballer Ella Smith was told her kicking was not up to scratch and to go back and work on her skills before trialling for a State squad again.

Fast forward to 2020 and Ella is captain and a key midfield cog for the Claremont women's side in a season with innumerable off-field challenges — all at the age of just 20.

Now, she has been invited to the AFLW draft combine, an opportunity to strut her stuff in front of the decision-makers from the Fremantle Dockers and the West Coast Eagles.

Like many girls, Ella had to wait until Year 8 to pull on the famous red 'V' of her beloved South Bunbury Football Club and was thrown straight in at the deep end, playing in a competition designed for girls up to 18 years of age.

"I never did Auskick or anything, but would always kick the footy with my brothers and my dad," she said.

"There were three junior teams and we just played each other, but that was girls from 13 to 18, so it was pretty brutal."

An opportunity arose for Ella to play a couple of games for the

Perth Angels, who were happy for her to continue to train at home.

Her first taste of football in Perth was such a valuable experience that when the coach, Andrew Mulcahy, moved to the South Fremantle Football Club, Ella followed suit.

Ella speaks of her first State trial as a turning point in her development.

"That was the moment when I went 'alright, I'm going to start to really work hard' and I really started grinding," she said.

After bringing her talents back to Hands Oval for a season in 2018 as she balanced Year 12 with her burgeoning football career, Ella headed back up the highway in 2019 to study at Curtin University, and Claremont proved to be the best fit.

Now in just her second season at Claremont Oval, she is leading the club.

"I am so blessed to be at a club like this," Ella said.

"There is such a fun vibe at the club but we all work really hard.

"I am so grateful for the opportunity and I wouldn't want to captain any other group of girls."

Testament to her character and passion for the club, after missing finals in the league competition, Ella drove back to Perth to run water for the reserves side at the

weekend.

Aside from her elite ability to find the footy, use it efficiently and lead her team on the field, it is acts like these which will make the name Ella Smith jump off the page for recruiters.

There is such a fun vibe at the club but we all work really hard.

Ella Smith



17 SEP, 2020

Working hard to kick goals



South Western Times, Bunbury



Bunbury girl Ella Smith is off to the AFLW draft combine, where she aims to impress recruiting staff from Fremantle and West Coast. Picture: Jackson Barrett



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