



Director's update

Sarah Pearce | Acting Director | 29 April 2019

CSIRO ASTRONOMY AND SPACE SCIENCE

www.csiro.au



Outline

- ATUC membership
- Awards
- Diversity and Equity
- Recent highlights
- Sydney site consolidation
- Annual Report
- Space activities

ATUC membership

- Thanks
 - This will be the last meeting for our two student representatives, Dougal Dobie and Lei Zhang
- We will shortly be soliciting nominations for ATUC and TAC members from the community, as was done last year, via a call to ASA distribution list

Awards



Fellows recognised in Australia Day honours

January 25, 2019



(L to R) Dr Liz Dennis, Professor Ron Ekers, Emeritus Professor Brian Kennett, Professor Bruce Kemp and Professor Elaine Sadler

Ron: "for distinguished service to science as a radio astronomer, to scientific education, and to astronomical and international organisations"

Elaine: "for distinguished service to science as an astrophysicist, in the field of galaxy evolution, and to gender equality."

Awards

- Andrew Cameron has been awarded the Otto-Hahn Medal by the Max Planck Society. Andrew will travel to Germany for the award ceremony in June.
- One of our current postdocs will be receiving an ASA award at the Annual General Meeting in July
- Parkes Community Event of the Year nominee CSIRO astronomer Dr Jane Kaczmarek, CSIRO School Holiday Astro Talks



CASS Diversity Committee

- Jane Kaczmarek was appointed as our new Diversity Champion earlier this year to reactivate our work in this area.
- Jane will chair the Diversity Committee and will plan, implement and deliver actions.
- She will report to the CASS Exec and to the Director as sponsor.
- A focus this year on improving diversity in Engineering teams
- CSIRO was successful in its application for a Bronze SAGE award - ongoing implementation.

Diversity Committee member

Kate Chow - Marsfield
Vicki Drazenovic - Marsfield
Kerry Fereday - Tidbinbilla
Jimi Green - Kensington
Gulay Gurkan Uygun - Kensington
Minh Huynh - Kensington
Suzy Jackson - New Norcia
Jane Kaczmarek - Parkes
Lesley Kliska - Clayton
Ed Kruzins - Tidbinbilla
Sarah Pearce - Marsfield
Michelle Storey - Marsfield
Tasso Tzioumis - Marsfield
Danica Chandra - Marsfield

Sponsor: Douglas Bock

STEM

To mark International Day of Women and Girls in Science, the SKAO released a video celebrating women astronomers from around the world.

The CSIRO_ATNF tweet marking the day was one of its most popular tweets ever.



CSIRO_ATNF @CSIRO_ATNF · Feb 10

Today is the International Day for Women and Girls and Science, and we'd like to give a big shout out to all of our talented female astronomers, engineers and support staff at ATNF. #IAU100 #February11 #WomenAndGirlsInScience #WomenInSTEM



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Diversity

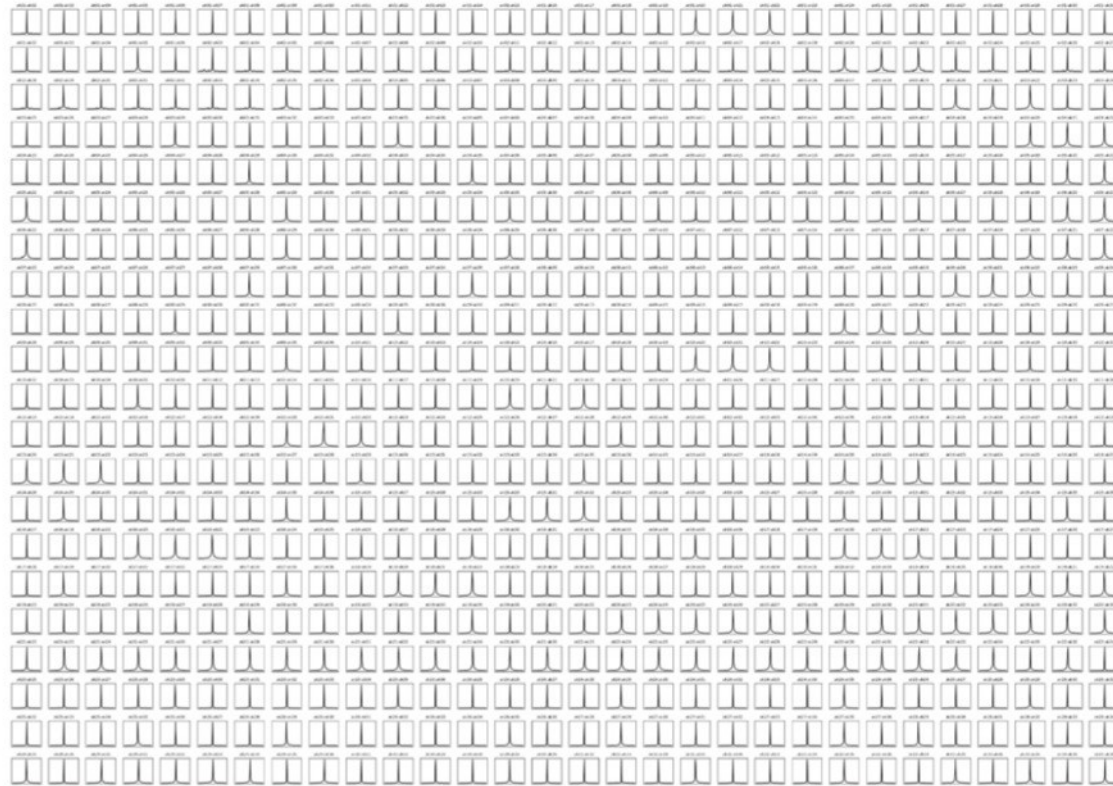
ASKAP was lit up in a rainbow of colours to mark CSIRO's inaugural participation in the Sydney Gay and Lesbian Mardi Gras.

CSIRO staff marched holding a giant double helix (DNA), celebrating the organisation's commitment to diversity.



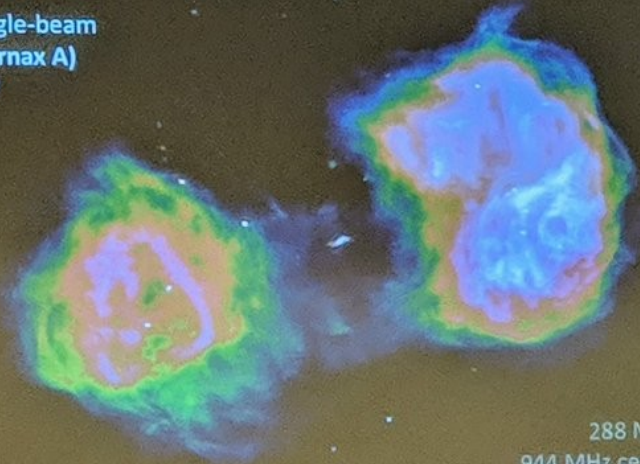
First fringes between all 36 ASKAP antennas

February 22nd, 2019: Correlated signal from PKS B1934-638 detected on 630 baselines



360-degree panoramic photograph showing all visible antennas tracking the radio galaxy PKS B1934-638 during the first calibration observations made with the full array

ASKAP-36, single-beam
NGC 1316 (Fornax A)
Imaged by E. Lenc



288 MHz bandwidth
944 MHz central frequency
10 hours, RMS = 25 μ Jy/beam



SKA convention signing



Sydney Site Consolidation

- CSIRO's Sydney Consolidation Project was referred to the Parliamentary Standing Committee on Public Works (PWC) on 13 Feb 2019. To date there have been three submissions to the committee made while the plan is open for public comment.

https://www.aph.gov.au/Parliamentary_Business/Committees/Joint/Public_Works/CSIROsydneyConsolidation/submissions

- Plan A is for the Marsfield site to relocate to Lindfield. Discussions continue on the potential opportunity for CASS to be co-located at Macquarie University.

Annual Report

Until 2016, ATNF Annual Reports were based on the calendar year: from 2017/18 the Reports are based on the Financial Year (in line with CSIRO Annual Reports). Being the first on this new cycle, the 2017/18 Annual Report covers activities over a period of 18 months.

https://www.atnf.csiro.au/the_atnf/annual_reports/index.html



Case history 2018

| Categories | 2018 |
|---|------|
| Category 1 Inappropriate language, insensitive comments, raised tone (single incident) | 4 |
| Category 2 Repeated behaviour (cat 1) | 1 |
| Category 3 **Bullying behaviour, unwelcome sexual behaviour/comments | - |
| Category 4 **Repeated behaviour (cat 3), unwelcome sexual contact | - |
| Category 5 **Serious misconduct, sexual assault | - |

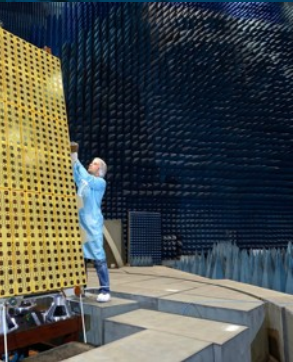
Outcome of Issues

- The cases in category 1 & 2 did not progress beyond a preliminary information gathering exercise - allegations not substantiated/early intervention.

CSIRO space vision

Position CSIRO as the lead technology partner of the Australian Space Agency in support of its goal of tripling the size of Australia's space industry and creating >10 000 new jobs by 2030.

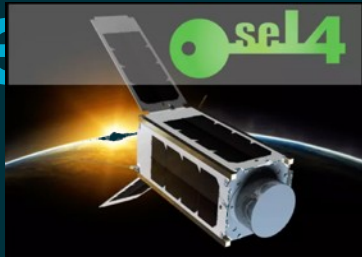
Mission



CSIRO will become a technical and operational lead for Australia's space activities:

- Advising the Australian Space Agency
- Running a significant R&D program in space technologies
- Operating space facilities for national and international users
- Identifying opportunities to work with industry and research organisations to grow Australia's space markets
- Working with the States and Territories to establish industry hubs and Centres of Excellence
- Leading international technical engagement.

CSIRO space capabilities



Space roadmap

SPACE-DERIVED SERVICES

- Earth observation
- Position, navigation and timing
- Satellite communications

SPACE OBJECT TRACKING

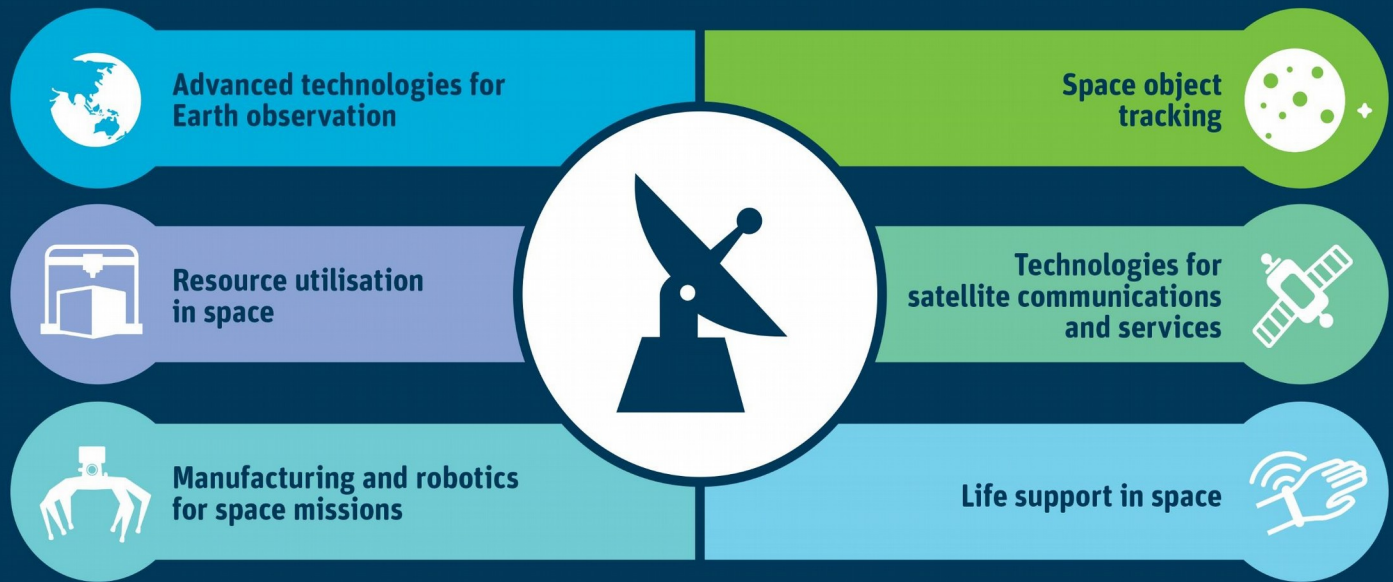
- Space situational awareness
- Spacecraft tracking, telemetry and control, deep space communications

SPACE EXPLORATION AND UTILISATION

- In-situ resource utilisation
- Habitat and life support
- Autonomous systems
- Power and propulsion



CSIRO Space Technology FSP

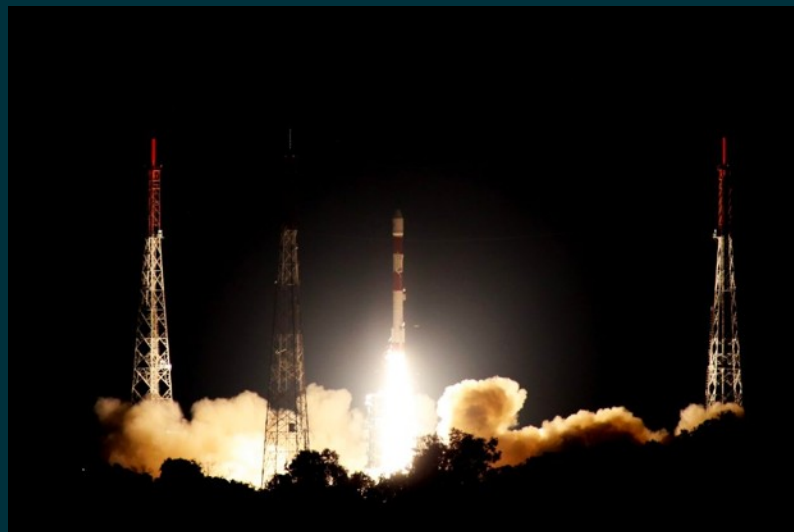
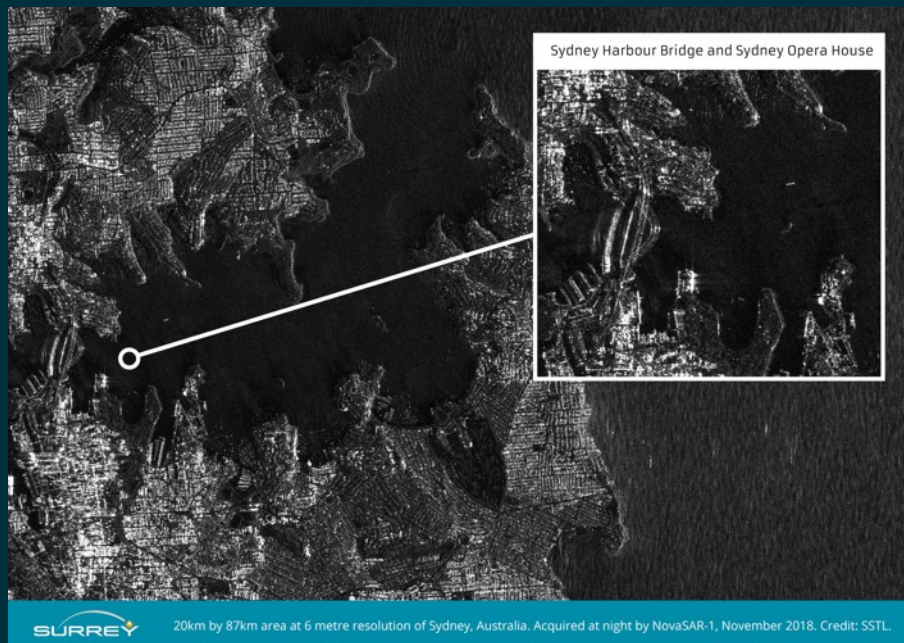


Space Technology will identify and develop the science to leapfrog traditional technologies and find new areas for Australian industry to work in, bringing economic returns and improving the lives of Australians.

Space 2.0 workshops



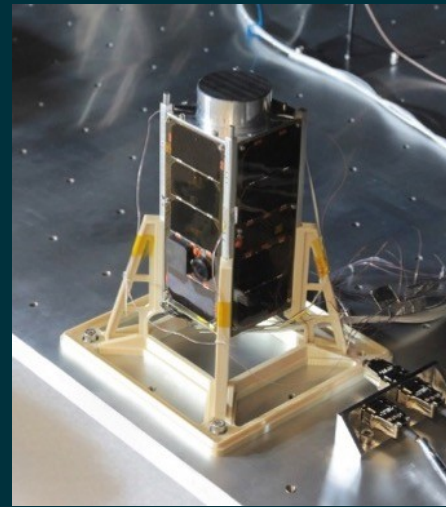
NovaSAR-1



**CSIRO's newest
national facility**

CSIROSat-1

- 3U CubeSat with infrared sensor
- On-board data processing
- Launch with NASA next year into ISS orbit



SME collaborators:

- Satellite design, manufacture and integration: **Inovor Technologies**
- Data processing and applications development support: **FluroSat, Geospatial Intelligence**



Research collaborators:

- ANU, UNSW Canberra, DST Group

Thank you

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