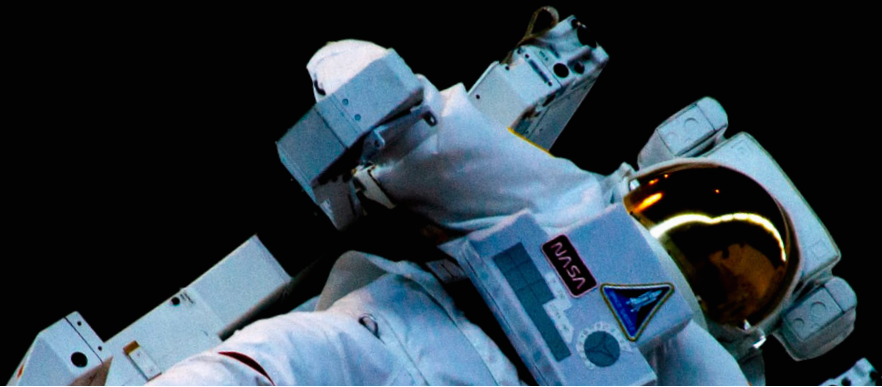


**12th Australian Space Forum**  
Wednesday 15 September 2021  
Adelaide, South Australia

## Preliminary Program



Adelaide Convention Centre and Online

Facilitated by Adjunct Professor Nicola Sasanelli AM, CEO of The Andy Thomas Space Foundation

Time      Session

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8.00	<b>Registration open</b> Tea and coffee on arrival
8.45	<b>Opening session</b> including a welcome from the Premier of South Australia – The Hon Steven Marshall MP, and a welcome from the Hon Christian Porter MP (TBC), Minister for Industry Science and Technology.
9.05	<b>International Space Trends</b> <ul style="list-style-type: none"><li>– Enrico Palermo, Head of the Australian Space Agency</li><li>– Pamela Melroy, Deputy Administrator of NASA (US)</li><li>– Dr Peter Crabtree, General Manager Science, Innovation and International, New Zealand Space Agency (NZ)</li></ul> <b>Keynote:</b> Dr Shannon Walker, NASA Astronaut - in conversation with Tory Shepherd
10.00	Morning tea

Time Session

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10.30	<p><b>Research and Development Panel: Moving from CubeSats to larger satellites – building Australian expertise and capability</b></p> <p>Keynote by Sir Martin Sweeting, Distinguished Professor of Space Engineering, University of Surrey (UK)</p> <p>Facilitated by Peter Nikoloff, Industry Director, SmartSat Cooperative Research Centre</p> <p>— With worldwide revenues accounting for around US\$20 billion per year, satellite manufacturing is the third largest segment within the world's space sector. These findings reveal a continuing demand for low-cost small satellites. CubeSats are highly valued for use in academic, government and commercial purposes due to their standardised deployment features.</p> <p>Commercial firms are also studying the deployment of small satellites capable of hosting bigger payloads, in particular for earth observation applications, and this will continue to be a driver for future revenues.</p> <p>This panel session brings together experts who are actively involved in satellite manufacturing to discuss a national endeavour.</p> <p>— <b>Panelists:</b> Sir Martin Sweeting, Distinguished Professor of Space Engineering, University of Surrey Renaë Sayers, Research Ambassador, Curtin University Flavia Tata Nardini, CEO and Cofounder, Fleet Space Technologies Peter Beck, CEO, Rocket Lab Prof Guglielmo Aglietti, Director of The Space Institute, The University of Auckland (NZ) Dr Nick Stacy, Senior Principal Scientist - Space, DST Group</p>
12.00	Lunch
13.30	<p><b>Research &amp; Development Panel: Earth observation technologies for space-based applications. with a focus on agriculture and natural resources</b></p> <p>Keynote by Adrian Turner, CEO of The Minderoo Foundation</p> <p>Facilitated by Aude Vignelles, Chief Technology Officer, Australian Space Agency</p> <p>— Constellations of satellites in Low Earth Orbit and Very Low Earth Orbit (LEO and VLEO) enable end users to obtain a huge amount of data in near real-time with unprecedented temporal resolution.</p> <p>This panel session brings together experts including from user communities such as agriculture and natural resources who are actively involved in leading edge approaches to more efficient missions in terms of cost and design.</p> <p>— <b>Panelists:</b> Adrian Turner, CEO, The Minderoo Foundation Prof Paul Tregoning, Senior Research Fellow, Australian National University Maree Wilson, Branch Head, National Earth &amp; Marine Observations at Geoscience Australia Dr Alex Held, Director, Centre for Earth Observation, CSIRO Astronomy and Space Science Fabio Volpe, Head of Optical &amp; Hyperspectral Applications, E-GEOS (IT) Mani Thiru, Space Industry Development Leader, Amazon Web Services Asia Pacific (SG)</p>
14.50	Afternoon tea

Time Session

15.30	<p><b>Research &amp; Development Panel: On-Earth and off-Earth remote operations, in the context of human exploration as well as applications right here on Earth</b></p> <p>Keynote by Jason Crusan Vice President Technology at Woodside Energy Facilitated by Dr Sue Keay, CEO Queensland AI Hub and Chair of Robotics Australia</p> <p>— Remote operations in space is challenging, but a realistic opportunity particularly in the context of human exploration of the solar system. The most interesting aspect of these challenges are whether the development of these new technical capabilities might find their first applications right here on Earth.</p> <p>This panel session brings together experts who are actively involved in the space sector and terrestrial remote operations using robotics and autonomous vehicles to discuss a national endeavour.</p> <p>— <b>Panelists:</b> Jason Crusan, Vice President Technology, Woodside Energy Gavin Gillett, Innovation Strategy, RioTinto Dr Sarah Cannard, Deputy Industry Director, SmartSat Cooperative Research Centre Tim Canham, Ingenuity Operations Lead, Jet Propulsion Laboratory - NASA (US) Leanne Cunnold, CEO, AROSE Prof Andrew Dempster, Director, Australian Centre for Space Engineering Research, UNSW</p>
16.50	<p><b>12th Australian Space Forum Conclusion</b> Nicola Sasanelli AM, CEO of The Andy Thomas Space Foundation.</p>
17.00	<p><b>Networking hour</b></p>

Please note that this is a preliminary program and changes are likely to be made in the lead up to the event as speakers are confirmed.

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