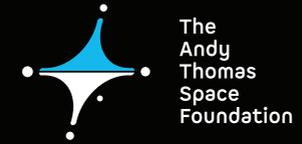
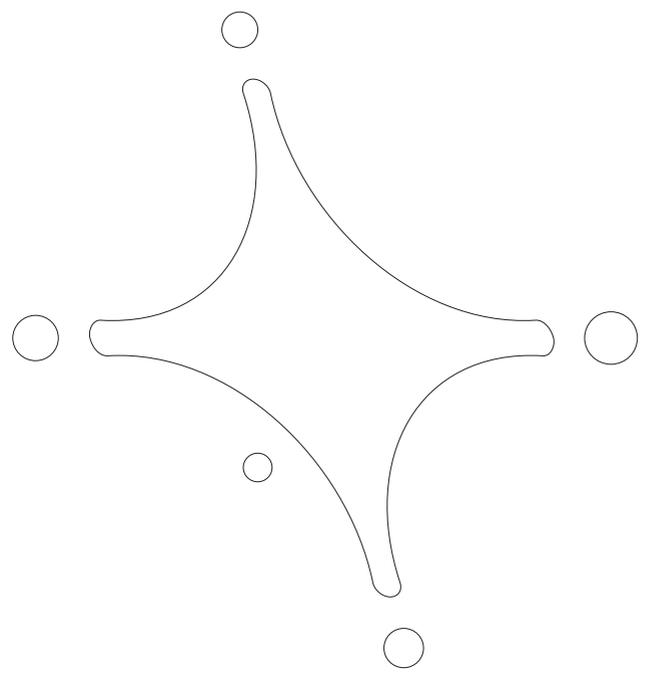
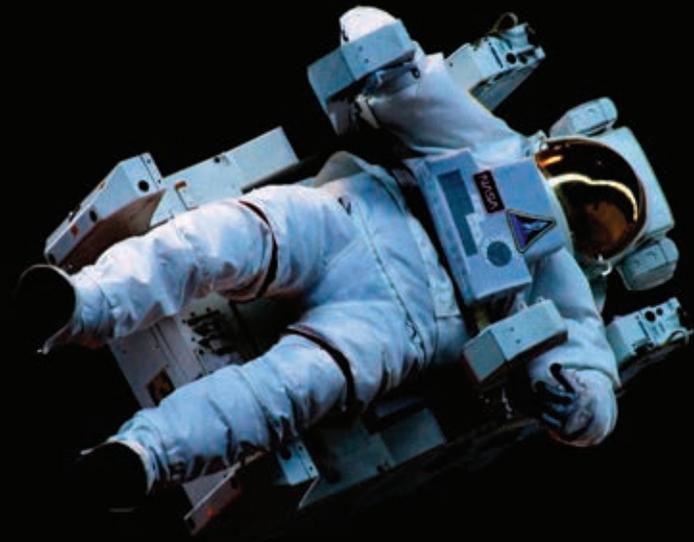


11th Australian Space Forum
Wednesday 31 March 2021
Adelaide, South Australia





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Contents

11th Australian Space Forum

Wednesday 31 March 2021
Adelaide, South Australia

Adelaide Convention Centre,
North Terrace, Adelaide, South Australia

Forum sessions: Hall C
Exhibition: Hall H

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 The Andy Thomas Space Foundation

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Welcome from the Chair of The Andy Thomas Space Foundation

The Andy Thomas Space Foundation is delighted to welcome you to the 11th Australian Space Forum.



The Foundation was established in 2020 for the purpose of advancing space education, raising space awareness and contributing to the national space community. We are delighted that the South Australian Government has entrusted us with the future conduct of the Australian Space Forum – Australia's most significant space industry meeting – and we intend to ensure that the Forum continues to be the leading national platform for the highest quality information and discussion about space industry topics.

This event is an important part of our mission of helping to promote and develop space education nationally, of raising the public's space awareness by demonstrating connections between space science and technologies used in everyday life and of contributing to the international space community through events and educational initiatives. Our success will be measured in part by the educational and career opportunities that the Foundation creates for young Australians, which will in turn contribute to the growth and sustainability of this critically important high-tech sector in Australia.

The Foundation will be working with partners and sponsors, including the Australian Space Agency, on an ambitious agenda of projects to advance space education and outreach. We are reaching out to friends and supporters who have a shared belief in the power of education, the pursuit of excellence and a commitment to diversity and inclusion. We look forward to conversations during the Forum – as well as ongoing interaction – about our shared interests and topics of importance to the national space community.

We hope you enjoy the 11th Australian Space Forum.

Michael Davis AO
Chair, Andy Thomas Space Foundation

The brightest stars are in South Australia.

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Government of
South Australia



Welcome from the Premier of South Australia

It is with great pleasure that I welcome you to the 11th Australian Space Forum.



After the many challenges faced by the world in the past twelve months, it gives me great joy to be able to welcome people back to South Australia to attend this cornerstone event on the national space calendar.

So much has happened in the short time since the 10th Australian Space Forum in November 2020.

In early December, we saw the triumphant return of the Hayabusa II to Earth, with the capsule landing in the heart of the South Australian outback at the Woomera Range Complex. This momentous event further strengthened our relationship with the Japan Aerospace Exploration Agency and highlighted the importance of collaborating with the international space sector.

The new year started strong for South Australia with the announcement that we will build and launch Australia's first state government owned satellite, SASAT1 in partnership with Adelaide-based start-ups Inovor Technologies and Myriota, and overseen by the SmartSat Cooperative Research Centre (CRC).

The 6-unit nanosatellite, which will be launched into low Earth orbit, is just one part of the South Australian Government's bold plan to deliver space-derived services to the state, delivering relative real-time data that will help us make better decisions for all South Australians.

We welcomed new neighbours to our innovation precinct at Lot Fourteen, with Canadian company Lux Aerobot settling into their new premises to be closer to the Australian Space Agency and the hub of space activity in the state.

We welcomed the new head of the Australian Space Agency, Mr Enrico Palermo and in doing so farewellled the inaugural head of the Australian Space Agency, Dr Megan Clarke AC, whom we thank greatly for her contribution to the growth of our nation's space footprint. Mr Palermo not only brings with him a strong industrial and entrepreneurial focus, but a dedication to triple the size of Australia's space sector to \$12 billion and over 20,000 jobs by 2030.

This forum provides us with the perfect opportunity to reflect on how our nation has well and truly rocketed into the global space sector, and how South Australia has been vital in providing the thrust for our national growth.

The 11th Australian Space Forum presents a fantastic platform for networking and ideas generation within this thriving industry. I look forward to seeing how our Australian space industry will continue to travel on this upward trajectory and build on the current momentum within the South Australian space ecosystem.

Hon Steven Marshall MP
Premier of South Australia



Moon to Mars initiative

Accelerating the growth of Australia's space industry

The Moon to Mars initiative gives Australian businesses and researchers the opportunity to showcase their knowledge and capabilities in projects that can support NASA's Moon to Mars endeavours.

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Supply Chain Program

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Welcome from the Head of the Australian Space Agency

I am excited to welcome you to the 11th Australian Space Forum, my first as the Head of the Australian Space Agency. 2021 is already shaping up to be a year of achievements and milestones for the national space ecosystem.



In January, Premier of South Australia, the Hon Steven Marshall MP announced the SASAT1 Space Services Mission in partnership with Inovor Technologies and Myriota, and the SmartSat CRC - a testament to the power of collaboration across industry, government and the research sector.

In February, Federal Minister for Industry, Science & Technology the Hon Karen Andrews MP launched the Space Manufacturing Roadmap as part of the Government's \$1.5 billion Modern Manufacturing Strategy. The Roadmap sends a strong signal to the industry around the Government's vision for manufacturing investment in the sector in the years to come.

Opening doors internationally unlocks new opportunities for the national sector. Signing an amended MoU between Australia and India with the Indian Space Research Organisation and signing the UK Space Bridge with the UK Space Agency in February will strengthen collaboration between our nations and contribute to our shared mission of building capability and creating jobs in the space industry.

Local industry continues to grow and showcase to the world Australia's unique capabilities and strengths. In March, Myriota, Fleet and UNSW Canberra are taking part in Rocket Lab's 'They Go Up so Fast' mission which demonstrates how quickly Australia's space industry is evolving and delivering vital services from orbit.

The research sector continues to facilitate teaching, training and industry collaboration while increasing the commercialisation of the sector's innovative ideas. For example, Curtin's Space Science Technology Centre is one step closer to its Binar Space Program and the scheduled launch of five Binar CubeSats to space in 2021-2022. And as it has done for many decades, the Canberra Deep Space Communication Complex is playing an important role in NASA's missions through its world-class tracking facilities.

On the immediate horizon is the grand opening of the Australian Space Discovery Centre, which will inspire, educate and engage the next generation of the space workforce and the Australian community. As we look to the future, the Australian Space Agency will also progress technical roadmaps for each of the priority areas in the Australian Civil Space Strategy, providing a vision and ambition to support the growth of a globally-respected and thriving industry. We will also see the first grants awarded under our ambitious Moon to Mars initiative.

In my initial months as Head of the Space Agency, I have met with many industry, research and government organisations and am constantly impressed by the passion, high talent and grit exhibited and by the innovative technology being developed, manufactured and commercialised here in Australia. I look forward to working with you all into the future and thank the national space community for your support of this annual event as we work together to triple the size of the civil space sector to \$12 billion and add up to another 20,000 jobs by 2030.

Enrico Palermo
Head, Australian Space Agency

Message from the CEO of The Andy Thomas Space Foundation

The Australian Space Forum is a biannual industry event that continues to grow, attracting interest and support, both nationally and internationally.



Our aim for the Forum is to create and maintain a dynamic platform to promote cooperation and generate new ideas, sharing opportunities and expertise among industry and research organisations.

This year we celebrate the Forum's 5th anniversary. From humble beginnings in April 2016 with 80 participants, the Forum is now the largest Australian space industry event, with the 11th edition boasting an anticipated 700+ participants (both in-person and virtual) and over 60 exhibiting organisations. This event has undoubtedly played a crucial role in the development of the Australian space ecosystem. The impassioned discussions that have been initiated since those humble beginnings have fed into major industry achievements, including the establishment of an Australian Space Agency, the SmartSat CRC, The Andy Thomas Space Foundation and many other initiatives.

I would like to thank the South Australian Government, in particular the Hon Steven Marshall MP, Premier of South Australia, and my colleagues at the South Australian Space industry Centre, for supporting and growing this initiative over the past five years and for entrusting The Andy Thomas Space Foundation to conduct the Forum over the next few years.

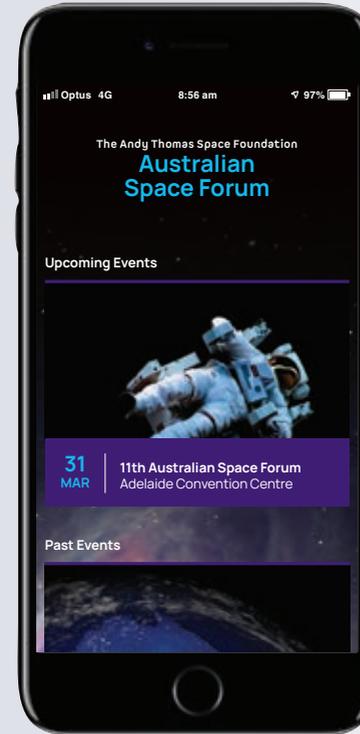
Today, the 11th Australian Space Forum will cover many important topics, namely: National space policy and education; R&D in quantum technologies; and R&D in space-related manufacturing. These discussions will be complemented by the Forum exhibition which will be the largest in the event's history. I encourage you all to meet with our national and international exhibitors and learn more about their unique projects, products and services.

I would also like to acknowledge and thank our sponsors – whose support both financially and in-kind ensures the success of this event. Special thanks to the Australian Space Agency, the SmartSat CRC and AMDA Foundation for their incalculable support.

Finally, thanks to all of you – entrepreneurs, researchers, students, teachers, academics and professional experts – our loyal followers who support the Forum in many different ways.

It is with your strong support and the success of the Forum, that The Andy Thomas Space Foundation will announce an exciting new space education initiative, and I look forward to sharing this with you.

Nicola Sasanelli AM
CEO, The Andy Thomas Space Foundation



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Forum Schedule

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

Time	Session	Room
8.00	Registration open Tea and coffee on arrival	Hall H
8.30	Opening session <ul style="list-style-type: none"> Welcome from the Premier of South Australia, The Hon Steven Marshall MP Welcome from the Prime Minister of Australia, The Hon Scott Morrison MP Special message with greetings from space 	Hall C
9.00	The national space landscape <ul style="list-style-type: none"> Enrico Palermo, Head, Australian Space Agency Michael Davis AO, Chair, The Andy Thomas Space Foundation Dr James Johnson, CEO, Geoscience Australia 	Hall C
9.45	Morning tea – sponsored by One Giant Leap Foundation	Hall H
10.30	Education & Outreach Panel: Building a national space science education & awareness ecosystem Keynote by Dr Amanda Caples, Victoria's Lead Scientist Facilitated by Anntonette Dailey, Executive Director Operations and Communications, Australian Space Agency <p>Panelists</p> <ul style="list-style-type: none"> Dr Graham Durant AM, Director, Questacon – The National Science and Technology Centre Dr Scott Sleep, STEM Project Advisor (SISP), NSW Department for Education Susan Burchill, Acting Director Education and Outreach, CSIRO Kalieu Selby, CEO, Scitech Adjunct Professor Nicola Sasanelli AM, CEO, The Andy Thomas Space Foundation 	Hall C
12.00	Lunch – sponsored by One Giant Leap Foundation	Hall H

Time	Session	Room
13.30	Research & Development Panel: Quantum engineering and communication technology for space based applications Keynote by Professor Andrea Morello, Scientia Professor of Engineering at the School of Electrical Engineering and Telecommunications, UNSW Facilitated by Dr Cathy Foley AO, Australia's Chief Scientist <p>Panelists</p> <ul style="list-style-type: none"> Dr Vikram Sharma, Founder and CEO, QuintessenceLabs Prof Steven Rolston, Chair, Department of Physics, University of Maryland (USA) Dr Paolo Bianco, Global R&T Cooperation Manager, Airbus Defence and Space (UK) Dr Mark Clampin, Director, Sciences and Exploration Directorate, NASA (USA) Katherine Bennell, Roadmaps, Robotics and Automation on Earth and in Space, Australian Space Agency 	Hall C
14.50	Afternoon tea – sponsored by One Giant Leap Foundation	Hall H
15.30	Research & Development Panel: The importance of advanced manufacturing in the knowledge economy Keynote by Professor Hugh Durrant-Whyte, NSW's Chief Scientist Facilitated by Professor Andy Koronios, CEO, SmartSat CRC <p>Panelists</p> <ul style="list-style-type: none"> Nick Purtell, General Manager, Modern Manufacturing Strategy, Department of Industry, Science, Energy & Resources Dr Lena Okajima, Founder and CEO, ALE Co., Ltd. (Japan) Aude Vignelles, Chief Technology Officer, Australian Space Agency Mark Crowley, COO and President of US Operations, QuintessenceLabs (USA) Dr Jason Armstrong, Senior Manager, Boeing Brisbane Technology Centre 	Hall C
16.50	Conclusion <ul style="list-style-type: none"> Anthony Murfett, Deputy Head, Australian Space Agency Adjunct Professor, Nicola Sasanelli AM, CEO, The Andy Thomas Space Foundation 	Hall C
17.00	Networking hour – sponsored by TCL Hofmann	Hall H



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Speaker Profiles

Speaker Profiles



Dr Jason Armstrong
Senior Manager, Boeing Brisbane
Technology Centre

Jason received his doctorate in the US from a NASA Centre of Research & Training in collaboration with Kansas State University. This early 1990s work, and follow-on work, involved automation & experimental design of biomedical payloads on three space shuttle missions and included himself personally flying on numerous NASA KC-135 zero gravity aircraft missions for equipment prototyping and experimental design. Today, in addition to his management roles, Jason continues to act as a PI with an international space station payload placed in orbit in December 2020.

In the mid-1990s Jason Armstrong worked in R&D in California at the world's largest biotechnology company, AMGEN, specializing in automated bioassay & screening development. From the late 1990s to 2011 he worked in venture capital, had CEO and board roles in R&D start-ups, and in 2005 as CEO he took an automation & polymer science company through an IPO on the ASX.

Currently, Jason is the Senior Manager of the Boeing Brisbane Technology Centre, which is part of the larger Boeing Research & Technology organisation. The role oversees the R&D technology portfolio, strategy & operations, including business development and funding. The Brisbane technology & research portfolio extends across several space research fields, including antimicrobials and astronaut health, human factors, disease transmission, novel materials/manufacturing tech, simulation software & robotics.



Katherine Bennell
Roadmaps, Robotics and Automation
on Earth and in Space, Australian
Space Agency

Katherine is an experienced space systems engineer, business developer and project manager. She leads a team to develop the Australian Space Agency's roadmaps, which will guide the advancement of the country's space capability over the next decade. She is also responsible for the 'Robotics and Automation on Earth and in Space' Strategic Priority Area, and leads the work to scope the M2M Trailblazer Program mission concept.

Katherine has spent most of her career abroad developing spacecraft, mission architectures and technologies. She contributed to Aeolus as an analyst, Lisa Pathfinder as a thermal architect, advanced ISRU technologies and an associated novel MarsHopper vehicle design, and developed an InSAR mission concept to measure ocean surface currents. Katherine has also led teams to design new Orion mission concepts, and human spaceflight technologies, and was the Airbus bid manager, deputy project manager and system engineer for the ESA e.deorbit mission concept. Most recently, Katherine helped to develop the ISS Bartolomeo facility, first as a system engineer and then as the Business Capture and Service Operations Manager.

Katherine holds a BEng Aeronautical (Space) (Hons) and BSc (Adv) Physics from Sydney University, an MSc Space Technology from Lulea Technical University and an MSC Astronautics and Space Engineering from Cranfield University.



Dr Paolo Bianco
Global R&T Cooperation Manager,
Airbus Defence and Space (UK)

Paolo Bianco graduated in Mechanical Engineering at Cranfield University (UK) and in Aeronautical Engineering in Turin (Italy).

Before graduation he co-founded a European Economic Interest Group to run projects as an EC thematic network.

Paolo started his career in space at CGS (OHB), Milan, Italy, then he joined Astrium, now Airbus, in Portsmouth, UK.

As a space system engineer, Paolo has designed systems for Earth orbit and for interplanetary missions that are flying in space or about to be launched.

In parallel, as technologist, Paolo has developed a wide range of diverse technologies for space and aerospace applications. This eventually became his current job as Global R&T Cooperation Manager for Airbus Defence and Space, for UK and Asia-Pacific.

In 2015 he got involved in Quantum Technologies (QTs), investigating and assessing on how to use them in Airbus operation and products. He provided his views on QTs application to the European Parliament, the House of Parliament and to the European Commission, for the deployment of the QT Flagship. Currently he is acting as industry advisory board member to a number of European and national initiatives and he is leading the strategy subgroup for quantum computing of the European Quantum Industry Consortium.

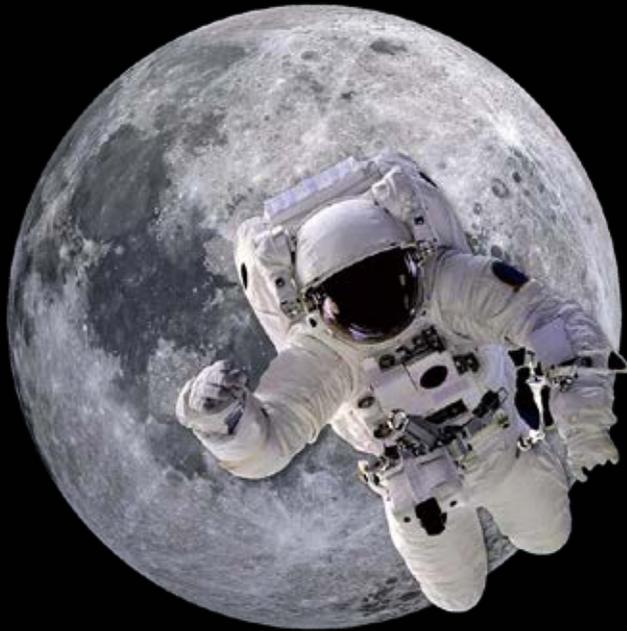


Susan Burchill
Acting Director, Education and
Outreach, CSIRO

Susan Burchill is the Acting Director of CSIRO Education and Outreach. She leads a team of 80 people from around Australia to deliver high quality Science, Technology, Engineering and Maths (STEM) education and engagement programs for teachers, students and the community.

As an experienced science communication and education leader, Susan has developed and delivered multiple national education programs for CSIRO since 2007. Susan holds a Bachelor of Science, Graduate Diploma of Science Communication and a Graduate Diploma in Education and is a previous recipient of a CSIRO Chief Executive Study Award.





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Dr Amanda Caples
Victoria's Lead Scientist

Dr Amanda Caples BSc Hons PhD GAICD is Victoria's Lead Scientist, a 'catalyst' responsible for working across the Victorian Government to identify opportunities for economic outcomes by building relationships between business, the research sector and government. Amanda brings to the role broad experience in technology commercialisation, public policy development and governance of public and private entities.

Amanda joined the Victorian public service in 2002 as the inaugural Director of Biotechnology and subsequently was appointed as the Executive Director Science and Technology and Deputy Secretary Sector Development and Programs to drive the state's science agenda. In these roles, Amanda has led the development of industry sector strategy plans, delivered research-led health initiatives, regulatory and legislative scientific reforms and established international business development and research alliances.



Dr Mark Clampin
Director, Sciences and Exploration
Directorate NASA (USA)

Dr Clampin is currently the Director of the Sciences and Exploration Directorate at NASA's Goddard Space Flight Center, leading four science divisions: Astrophysics, Earth Science, Heliophysics, Solar System Exploration, and a high performance computing center for climate simulation. The Sciences and Exploration Directorate's responsibilities include science and technology research, science mission oversight, science mission operations; data archiving and assimilation, science outreach and large field deployments.

He previously served at Goddard Space Flight Center (GSFC) as the James Webb Space Telescope (JWST) Observatory Project Scientist, and as Director of the Astrophysics Science Division. Prior to joining GSFC, Dr Clampin was the Advanced Camera for Surveys (ACS) Group Lead at the Space Telescope Science Institute (STScI), where he worked on three Hubble Space Telescope (HST) Servicing Missions.

Dr Clampin is a Co-Investigator with the Transiting Exoplanet Survey Satellite (TESS), and the Advanced Camera for Surveys (ACS) science team, where he served as the Detector Scientist. His research interests focus on studying the formation and evolution of planetary systems. Dr Clampin has designed space flight, and ground-based astronomical instruments including adaptive optics systems, coronagraphs and sensor systems.



Mark Crowley
President of US Operations and COO
QuintessenceLabs (USA)

Mark Crowley is both the COO of QuintessenceLabs, and President of its US subsidiary, leading global operations and business development for nearly 5 years. Prior to QuintessenceLabs, he was CEO of the solar technology start-up, SolFocus, for 5 years, leading SolFocus from the R&D phase to commercialisation with revenues exceeding \$50M, and projects deployed in 13 countries.

Mark also has 25 years' experience in the US defence industry, holding numerous Vice President roles in Engineering, Product Management and Air Force Programs with Lockheed Martin and General Electric. He managed large teams (up to 4000 employees) with technical responsibilities and functions including communications and remote sensing systems. He also had responsibilities for supply chain and manufacturing management of aerospace systems. Mark has also worked as Executive in Residence at the VC firm New Enterprise Associates, providing advice to CEOs.

Mark holds Engineering degrees from the University of Illinois and Drexel University, and the Stanford GSB Sloan Program.



Anntonette Dailey
Executive Director, Operations and
Communication, Australian Space Agency

Anntonette is an Executive Director at the Australian Space Agency and commenced in the Agency soon after it was established in July 2018. Anny is responsible for the operations of the Agency and ensuring it meets its government requirements as well as establishing its governance arrangement. In addition to managing the parliamentary interaction, finances, human resources and event management, Anny is also responsible for all communications for the Agency and has a personal goal to meet the key values of the Agency - namely to inspire Australians and 'do cool stuff'.

In 2019, Anntonette was identified in the Financial Review as one of Australia's 100 Most Influential Women. As a chartered professional engineer, Anny graduated with honours at the University of Technology Sydney and took on a career in sustainability. Working across multiple government agencies as well as not for profit and consultancy - Anny brings more than 12 years senior executive capability to the Agency.



Michael Davis AO
Chair, The Andy Thomas Space Foundation

Michael Davis AO is Chair of The Andy Thomas Space Foundation, an Australian philanthropic charity incorporated in July 2020. He is also a Director of the SmartSat CRC and a former Chair of the Space Industry Association of Australia. He holds a Bachelor of Laws from the University of Adelaide, Australia and Master of Science (Space Studies) from the International Space University in Strasbourg, France.

He practiced law for 41 years, including 22 years as a partner of Ward & Partners, a major South Australian legal firm. In 2002 he co-founded Adelta Legal, a specialist commercial law firm, retiring from legal practice in 2014.

His volunteer service in the space sector includes five years as Chair of the Space Industry Association of Australia and 20 years' membership of the Board of that organisation. He proposed Adelaide as the host of the International Astronautical Congress which was held in 2017, and chaired the Congress Local Organising Committee for that event. He was a leading advocate for the establishment of the Australian Space Agency, an Australian Government decision announced at the Congress. He also played a key role in organising a number of International Space University programs and courses in Australia including the establishment of the Southern Hemisphere Space Studies Program which is held annually in Adelaide.



Dr Graham Durant AM
Director, Questacon - The National Science
and Technology Centre

Graham Durant is the Director of Questacon, Australia's National Science and Technology Centre and an Honorary Professor at the Centre for the Public Awareness of Science at the Australian National University.

He trained as a geologist and has more than 40 years' experience working in the science museum and science centre sector. Graham is one of the principal advocates for the global cooperative work of the sector examining ways that science educational activities can contribute to the fostering of understanding across geographical, economic, religious and political boundaries. He is a board member of the Australian Science Media Centre, a member of the Council for Australasian Museum Directors and is currently Vice President of ASPAC, the Asia-Pacific network of science centres.

Questacon has been working with the Australian Space Agency to create the new Australian Space Discovery Centre and has used this work to create a traveling 'Australia in Space' exhibition. Questacon regularly hosts presentations from NASA scientists and has an ongoing relationship with JAXA in respect of the Hayabusa mission.





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Prof Hugh Durrant-Whyte
New South Wales' Chief Scientist

Hugh Durrant-Whyte is the NSW Chief Scientist & Engineer and Natural Resources Commissioner. From 2016-2018, Hugh was Chief Scientific Advisor to the UK Ministry of Defence. From 2014-2016 and 2002-2010, he was a Professor and ARC Federation Fellow at the University of Sydney. 2010-2014, he was CEO of National ICT Australia (NICTA), and from 1995-2010 Director of the ARC Centre of Excellence for Autonomous Systems and of the Australian Centre for Field Robotics (ACFR).

Hugh is a world-leading authority on machine learning and robotics, and applications in areas including cargo handling, mining and defence. He has published over 300 research papers, graduated over 70 PhD students, has won numerous awards and prizes for his work, including being named 2010 NSW Scientist of the Year and 2008 Engineers Australia NSW Engineer of the Year.

In his career he has worked with many major companies and has co-founded three successful start-up companies. He is particularly well known for his work with Patrick Terminals in delivering the automated container terminals in Brisbane and Port Botany, for his work with Rio Tinto in pioneering and delivering the automated "Mine of the Future". He is an honorary Fellow of Engineers Australia (HonFIEAus), a Fellow of the IEEE (FIEEE), Fellow of the Royal Academy of Engineering (FREng), Fellow of the Australian Academy of Science (FAA), and a Fellow of the Royal Society of London (FRS).



Dr Cathy Foley AO
Australia's Chief Scientist

Dr Foley commenced as Australia's ninth Chief Scientist in January 2021. Prior to this appointment, Dr Foley held a lengthy career at Australia's national science agency, the CSIRO; where she was appointed as the agency's Chief Scientist in August 2018, the second woman to hold the role.

Dr Foley's career in physics began with her PhD at Macquarie University on the semiconductor indium nitride. She and her colleagues were one of the first groups to carry out pioneering research that examined the properties of indium nitride in light-sensitive devices.

While working at CSIRO, Dr Foley made significant contributions to the development of a patented high temperature superconducting Josephson junction, a nanosized structure that is the critical component of the most sensitive detector of magnetic fields. Dr Foley and her team's most successful application is the LANDTEM™ sensor system used to locate valuable deposits of minerals deep underground, such as nickel sulphide, silver and gold. This has led to mineral discoveries worth more than \$6 billion.

Dr Foley's scientific excellence and influential leadership have been recognised with numerous awards and fellowships, including being elected to the Australian Academy of Science in 2020, along with an Order of Australia for service to research science and to the advancement of women in physics.

She was elected as a Fellow of the Australian Academy of Technological Science and Engineering in 2008 and was elected as an honorary Fellow of the Australian Institute of Physics in 2019.



Dr James Johnson
CEO, Geoscience Australia

Dr Johnson has been the Chief Executive Officer of Geoscience Australia since April 2017. He is a geologist with over 30 years' experience, including private sector mining and mineral exploration. He has led teams of geoscientists for over 20 years with a range of diverse achievements, ranging from discovery of gold reserves in industry, to national scale pre-competitive geoscience programs that have attracted exploration investment to Australia.

Dr Johnson has a Bachelor of Science majoring in Geology from the University of Sydney and a PhD from the Australian National University. He first joined Geoscience Australia in 2006. Since then he has been a Division Head with carriage of the Government's energy and mineral resource programs. He has also been a board member National Computational Infrastructure (NCI) at the Australian National University since 2017, and a member of the Australian Antarctic Science Council since 2018.

Dr Johnson's vision for Geoscience Australia is one of deploying integrative geoscience for the economic, social and environmental benefit of Australians. He is driving a strong agenda of inclusiveness to build a talented, thriving workforce. He is a member of the Champions of Change Coalition STEM group, has led Geoscience Australia to Bronze accreditation in the Science in Australia Gender Equity (SAGE) initiative, and is driving Geoscience Australia's engagement with Aboriginal and Torres Strait Islander peoples.



Prof Andy Koronios
CEO, SmartSat Cooperative Research Centre (CRC)

Professor Andy Koronios is the CEO of the SmartSat CRC, a consortium of industry and research organisations developing game changing satellite technologies to catapult Australia into the global space economy.

Previously, Andy held the positions of Dean: Industry & Enterprise and Head of the School of Information Technology & Mathematical Sciences, at UniSA. Andy is a professor of information systems and holds academic qualifications in Electrical Engineering, Computing and Education as well as a PhD from the University of Queensland.

He has extensive experience in both commercial and academic environments and his research areas include data quality, information management & governance, data analytics and the strategic exploitation of information.

Andy has led the establishment of several research concentrations, labs & research centres. He served as the Research Program Leader for System Integration & Interoperability in the CIEAM CRC. He is internationally known for his work in data quality, has been an adjudicator for the European Corporate Data Quality Awards for several years and is the Editor-In-Chief of the International Journal of Information Quality.

He has worked both as a consultant as well as a professional speaker on IT issues in Australia and South East Asia and has over twenty five years' experience in the academic environment. He is a Fellow of the Australian Computer Society, a Founding Fellow of the International Institute of Engineering Asset Management and a Distinguished Speaker of the ACM.



Prof Andrea Morello
Scientia Professor of Quantum Engineering at the School of Electrical Engineering and Telecommunications, UNSW

Prof Morello's background is in condensed-matter physics and electrical engineering, with a long-standing interest in the quantum dynamics of spins in nanostructures. Andrea started his research career at the Grenoble High Magnetic Field Laboratory in 1998, then obtained a PhD from the Kamerlingh Onnes Laboratory in Leiden in 2004. After two years at the University of British Columbia, Andrea joined UNSW Sydney in 2006.

Andrea's group was the first in the world to achieve single-shot readout of an electron spin in silicon, and the coherent control of both the electron and the nuclear spin of a single donor, all published in Nature. His single-atom qubits hold the records of coherence time and violation of Bell's inequality in the solid state. Andrea also develops ideas and theories to demonstrate multi-qubit logic gates and scalable quantum computer architectures, and to shed light on foundational aspects of quantum mechanics.

Andrea is a Fellow of the American Physical Society, and an Associate Editor for the journal Quantum Science and Technology. For his ground-breaking work on quantum computing, he received the 2013 Malcolm McIntosh Prize for Physical Scientist of the Year, and the 2017 Landauer and Bennett award for Quantum Computing.



Anthony Murfett
Deputy Head, Australian Space Agency

Anthony Murfett is Deputy Head of the Australian Space Agency, where he has oversight of strategy, policy and day-to-day operations and supports the Agency Head in monitoring the performance of the Agency. Anthony has worked as Minister Counsellor, Industry, Science and Education at the Australian Embassy in Washington DC and as General Manager of the Growth Centres Branch within the Department of Industry, Innovation and Science in Canberra. Anthony ensures the Agency delivers on its purpose to transform and grow a globally respected Australian space industry that contributes to productivity and employment across the Australian economy.

Dedicated to purpose, Anthony brings an entrepreneurial spirit to the Agency, valuing partnerships while drawing strength from diversity and pushing the boundaries of our knowledge.

As a road bike enthusiast, Anthony is not only at the forefront of space industry development, he is well on his way to cycling the distance to the moon (238,855 miles or 384,400 km), having ridden and competed across the country and around the globe.



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Dr Lena Okajima
CEO, ALE Co. Ltd. (Japan)

Dr Lena Okajima is the founder and CEO of ALE. After graduating the University of Tokyo with a PhD in Astronomy Science, Dr Okajima joined Goldman Sachs Japan where she gained experience and knowledge in finance. In 2009, she started to conceptualize man-made shooting stars as both entertainment and science. She tested materials that would emit bright light when heated up and realised a small satellite could carry these materials as particles. With this she was convinced she could replicate shooting stars using satellites and established ALE Co., Ltd. in 2011. In 2017, after years of research and development, and numerous testing, ALE was selected by JAXA's Innovative Satellite Technology Demonstration competitive program.

Its first satellite (ALE-1) successfully launched on JAXA Epsilon rocket 4 and its second satellite (ALE-2) successfully launched on Rocket Lab Electron rocket in 2019. ALE is currently working on their third satellite which is scheduled to be launched early 2023 and commercialisation in the same year. With their space entertainment business using shooting stars, atmospheric data business and space debris prevention device (EDT), which are both currently in development, ALE aims to make space closer for all of us together and contribute to the sustainable development of humankind.



Enrico Palermo
Head, Australian Space Agency

Mr Palermo is the second Head of the Australian Space Agency, starting in January 2021 at the Agency's Adelaide headquarters. As Head of Agency, he is responsible for overall governance and performance, management, policy leadership and strategic direction. Mr Palermo spent the previous 14 years in various roles at Virgin Galactic, including managing a team of over 700 engineers, technicians and professionals. He went from being the first employee of The Spaceship Company, a Virgin Galactic subsidiary dedicated to the high-tech manufacturing function, to becoming Chief Operating Officer of the New York Stock Exchange listed public company Virgin Galactic Holdings.

A Perth native, Mr Palermo graduated from the University of Western Australia with a Bachelor of Engineering in Mechanical Engineering and Bachelor of Science in Physics and Applied Mathematics. Mr Palermo also studied at the International Space University in Strasbourg. He has worked and studied in the United States, United Kingdom, France and Netherlands. His experience goes beyond the space industry having also worked in Australian chemical processing, management consulting, onshore and offshore oil and gas, and mining industries. Mr Palermo brings his deep technical background, international network, and business scaling experience to help further develop Australia's expanding ecosystem of space companies and start-ups.



Nick Purtell
General Manager, Modern Manufacturing Strategy, Department of Industry, Science, Energy & Resources

Nick Purtell is General Manager, Industry Engagement Branch, in the Manufacturing Division of the Department of Industry, Science, Energy and Resources. His previous roles at the Department include General Manager of the Major Projects Branch, Head of the Office of Northern Australia, and Joint Lead of the COVID Response Taskforce.

Nick has worked across a variety of public policy and diplomatic roles over the past 20 years, including Counsellor (Political) at Australia's Embassy to China and Deputy Permanent Representative at Australia's Mission to the UN, Geneva.



Prof Steven Rolston
Chair, Department of Physics
University of Maryland (USA)

Professor Steven Rolston received his BA in 1980 from Wesleyan University in Connecticut and his PhD in nuclear physics in 1986 from the State University of New York at Stony Brook. Following post-doctorates at the University of Washington and Harvard University, he joined the research staff at the National Institute of Standards and Technology in 1988. He moved to the faculty of the Physics Department at the University of Maryland in 2003, was Co-Director of the Joint Quantum Institute for 9 years and has been serving as Chair of the Physics Department since 2016.

His research interests include laser cooling and trapping, Bose Einstein condensation, optical lattices, quantum simulation, quantum computing, and quantum communication. He is author of over 160 publications with more than 12,000 citations, and is a Fellow of the American Physical Society, the Optical Society of America, and the American Association for the Advancement of Science.



Adj Prof Nicola Sasanelli AM
CEO, The Andy Thomas Space Foundation

Nicola Sasanelli graduated from the University of Bari, Italy in 1987 with a degree in Electronic Engineering. He went on to work as a researcher in microelectronics high-reliability components at Tecnopolis S&T Research Centre, Bari before being appointed as Scientific Attaché at the Embassy of Italy in Canberra from 2001 to 2008. In 2009, Nicola joined the South Australian Government as a Special Envoy for higher education research and technology transfer to Europe with the Department of Premier and Cabinet and later joined the Department of State Development as Director for International R&D Collaborations. From 2003 to 2013 he was appointed as Adjunct Professor of Science and Technology at the University of Canberra, Australia, and in 2007 he became an Honorary Member of the Order of Australia.

In 2016 Nicola joined Defence SA (South Australian Government) as Director of the Space Industry and R&D Collaborations project. In September 2017 the South Australian Space Industry Centre was created, with Nicola as Director. In 2018 Nicola was appointed Adjunct Professor at the University of South Australia – Division of Information Technology, Engineering and the Environment and was appointed on the board of the Space Industry Association of Australia (SIAA). In the same year he was also appointed to the Order of Merit of the Italian Republic by the Italian Government.

In 2019 Nicola joined SmartSat Cooperative Research Centre as Director of Communication and Outreach, becoming Senior Advisor of South Australian Space Industry Centre and in 2020 Nicola founded and became the CEO of The Andy Thomas Space Foundation.



Kalien Selby
CEO, Scitech

Kalien Selby is Chief Executive Officer of Scitech, bringing a wealth of strategy, transformation and operations experience to propel the implementation of the New Scitech Strategy, a bold plan to affect a positive STEM-enabled future for all Western Australians.

At the executive level she has previously held strategic, business development and operational roles for blue chip organisations including BHP, Aurizon and Emeco as well as the Chamber of Commerce and Industry of WA. An influential leader and collaborator, Kalien's strengths are developing big picture strategies, leading change and driving profitability and growth.





Dr Vikram Sharma
 Founder and CEO, QuintessenceLabs

With the power of quantum technology, Dr Vikram Sharma and his company, QuintessenceLabs, are transforming cybersecurity to safeguard our digital lives.

Recognising the potential of quantum cybersecurity, Dr Sharma conducted award-winning research to mature this science at the Australian National University (ANU). He founded and leads the Canberra-headquartered company QuintessenceLabs, which is now at the forefront of the quantum cybersecurity industry. The company's capabilities have received many awards including global runner-up in IBM's SmartCamp competition, Top 20 Westpac Businesses of Tomorrow, Security Innovation Network's SINET16 Cyber Security Innovators, and most recently, recognised as a Technology Pioneer by the World Economic Forum.

Dr Sharma holds a Master of Science in computer science from the ANU, a Master of Science in management (Sloan Fellow) from Stanford University, and a Doctorate in quantum physics from ANU. Vikram is also the recipient of the 2013 Pearcey State Award for Entrepreneurship, serves on several industry boards and is a member of the National Security College Futures Council at the Australian National University.

Prior to QuintessenceLabs, Dr Sharma successfully built several technology companies, including a consultancy firm providing IT services to the Government of Australia, and one of the first private ISPs in India. His TED Talk on "How Quantum Physics can make Encryption Stronger", has had over 1.2 million views.



Dr Scott Sleep
 STEM Project Advisor (SISP),
 New South Wales Department of Education

Dr Scott Sleep is regarded as a visionary educator – he was the first Technology teacher to receive the Prime Minister's Prize for Excellence for Secondary Science Teaching. As an educational leader with over 25 years' experience he has had various roles related to the primary, secondary and tertiary education sectors as well as industry workforce development.

In 2020 Dr Sleep was recognised with a prestigious National Commonwealth Bank Teaching Fellowship. Previously he was awarded the title of National Teacher of the Year by the Australian Design and Technology Teachers Association (DATA) and was inducted as one of only three national DATTA patrons.

Dr Sleep has a strong interest in Space and is currently part of the advisory committee for the NSW Government's Space Industry Development Strategy. He was also on the local organising committee for the 43rd COSPAR Space Scientific Congress. He also helped pioneer the STEM space education component of COSPAR, an international first.

He is currently employed by the NSW Department of Education as the leader of the STEM Industry School Partnerships (SISP) program. The SISP program is a highly regarded initiative winning a NSW Secretary's Award for Excellence in 2019 among other honours.



Aude Vignelles
 Chief Technology Officer, Australian
 Space Agency

Aude Vignelles is the Chief Technology Officer of the Australian Space Agency. As part of the senior executive team, Aude leads and is responsible for writing the civil space strategy roadmaps, scoping and managing the Agency's space programs and delivering on domestic and international activities. She provides an in-depth understanding of the national and international space industry, program management expertise and a breadth of space science or systems engineering skills. Prior to this role, Aude was the Executive Manager, Satellite & Fixed Wireless Operations at nbn. Previously, Aude held senior and executive roles within Foxtel, Austar, Telstra, and Technicolor.

Aude is a space and aeronautics engineer (graduating from ENSICA, Toulouse) who started her career at the European Space Agency in the Netherlands. Her 30 years' of experience in delivering large and complex programs embrace the introduction of new technology in the telecommunication, space and media industries. Aude has been living in Australia for the past 20 years and has contributed to the Australian space capability through White Papers, events at conferences with the growing start up community in Australia, and promotion for Women in Space and Engineering at universities.



Company Profiles



2024 IAC Bid

Exhibitor

andythomas.foundation

Contact: Nicola Sasanelli

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The International Astronautical Congress (IAC) is the world's biggest and most important international space meeting. The week long congress covers all aspects of space exploration and industry development across all space disciplines. It offers delegates the latest information on space programs and new space technologies as

well as networking opportunities, access to high profile international experts and opportunities to discuss and implement international collaboration. The IAC 2017 inspired impressive growth in the Australian space sector, and led to the establishment of the Australian Space Agency, the SmartSat CRC and The Andy Thomas Space Foundation. Since IAC 2017 the total investment in the civil space sector in Australia has been estimated at more than AUD 1 billion. In addition, around AUD 10 billion has been committed for Defence space projects in the coming 20 years.

Australia is bidding for the IAC to return in 2024. This will be a major boost that will sustain the momentum of the growing space sector in Australia, in support of the Australian Space Agency's goal of generating 20,000 new jobs – trebling the size of Australia's space economy to AUD \$12 billion by 2030.



Adelaide Section of the American Institute of Aeronautics and Astronautics

Exhibitor

aiaa.org.com

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AIAA – The American Institute of Aeronautics and Astronautics, is the world's largest professional society dedicated to aerospace activities, with over thirty thousand members worldwide. The Adelaide Professionals Chapter of the AIAA is proud to carry out the mission of the Institute here in Adelaide and more broadly throughout our community and region by advocating for aerospace at all levels. For more information about the AIAA, please visit www.aiaa.org.





Advanced Technology Program – South Australian Department for Education

Exhibitor
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The Advanced Technology Program (ATP) is funded as part of the Defence Industry Skilling and STEM Strategy School Pathways Program. Our aim is to help reduce skills shortages in defence industry by increasing

the pool of STEM educated students, informing Australia's youth about industry employment opportunities and pathways and increase student awareness of defence industry (including space) as an employer of choice. We provide secondary students with positive career experiences in defence (and allied) industries through programs such as the Space Passport and Space Industry Work Experience. ATP also provides student activities and teacher professional development opportunities to enhance STEM capability, education and enterprise skills as well as enhancing student engagement, participation and enrolment in STEM subjects. We aim to increase focus on indigenous and female participation within all our activities and events. The ATP team is very excited about the space industry career opportunities for our students.



Aerometrex
Exhibitor
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Aerometrex is an Australian-based geospatial tech company with a focus on providing data-driven insights for a range of industries. As a preferred supplier to the private & public sector, the company has over 40 years of experience in areas such as aerial imagery and mapping, 3D modelling and airborne LIDAR. The company also offers a subscription-based service known as

MetroMap, which gives users easy access to high-quality 2D imagery, 3D reality mesh models and LIDAR-derived products.

Over the years, Aerometrex has showcased global expertise in providing derivative solutions from all types of imagery, including satellite, large-format aerial, and UAV systems. The company's spatial solutions have underpinned many local, state, and federal projects across areas such as infrastructure, engineering, construction, environment & disaster management, transport and logistics, energy & utilities, etc. The company has won numerous awards for its work across Australia, USA, and Europe.



Airbus Defence and Space
Silver Sponsor
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Airbus is a global leader in Space; providing military and commercial telecommunications, earth observation and sensing satellites and services globally, alongside supporting ESA, NASA and Space

Agencies around the world in their ambitions to understand the world and explore the universe.

Airbus already provides military satellite communications to the UK, France, Germany, Spain and the UAE with solutions that meet customer requirements, keeping troops and military assets safe, secure and connected. As Australia looks to grow its space industry and sovereign capability, Airbus is ready to support.

Team Maier has been launched as the unique approach to JP9102, bringing together Airbus and the best of Australian expertise and capability. Through partnership we can realise the potential as part of the international space market, bringing Australian capability to the world and beyond.

Airbus is going above and beyond for Australian sovereignty in Space.

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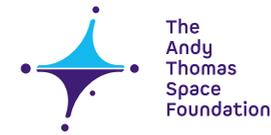
- Avalon Australian International Airshow and Aerospace & Defence Exposition
- Indo Pacific International Maritime Exposition
- Land Forces International Land Defence Exposition
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AMDA Foundation Limited is an Australian not-for-profit corporation established to promote the development of aviation and Australia's industrial, manufacturing and information/communications technology resources in the fields of aviation, aerospace, maritime, defence and security. The Foundation achieves these goals by



**The Andy Thomas Space Foundation
Event Host**

andythomas.foundation
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The Andy Thomas Space Foundation was incorporated in 2020 as an Australian charity dedicated to supporting the education and outreach goals of the Australian Space Agency by identifying new ways to enhance space awareness among the Australian community to better tell the space story that touches every part of life on Earth.

Our main mission is to overcome disadvantage by supporting space outreach and education in Australia and inspiring young people to pursue careers in space - by building a culture of entrepreneurship and igniting a curiosity for space and related scientific activities among young Australians.

The Foundation will support a range of space education and outreach initiatives. It will receive sponsorship, grants and tax-deductible donations from corporations and private individuals.



Amazon Web Services (AWS) Aerospace and Satellite (A&S) Solutions helps commercial and government customers build satellites, conduct space and launch operations, and reimagine space exploration. Our reliable global infrastructure and unmatched portfolio of cloud services position AWS to equip organisations in the private and public sector to process and transform space collections into data, make that data actionable and accessible to customers around the globe, and redefine how organisations transform the space market segment. With the AWS Cloud, customers are accelerating space missions, removing barriers to innovation on Earth, and inspiring future generations.

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**Arrow Electronics Australia and Analog
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analog.com/space
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Arrow Electronics is the world's largest semiconductor distributor of space and defence grade electronic components and technologies. Arrow specialises in the supply of high-reliability space and MIL-PRF electronic and electromechanical

components, radiation-tolerant microprocessors, FPGA's, converters, amplifiers, multiplexers, RF & microwave, sensors, specialised lightweight space cabling, connectors solutions from the world's most recognised global OEM component manufacturers.

Analog Devices, Inc. (ADI), is a global semiconductor company with a 50+ year history of delivering a full range of aerospace, defence and space qualified components and radiation-hardened electronics and technology solutions. ADI specialises in SWaP+C, COTS, Enhanced Products (EP), GaN, data conversion, signal processing and power management space-grade technologies. With QMLV-certified facilities, extensive experience with traditional space products, and end-to-end signal chain capabilities, ADI is your best opportunity to achieve new heights in space.





Artegrafica Printing Pty Ltd
Professional Partner of The Andy Thomas Space Foundation

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Arte Grafica began in 1967 and is still run by the original owners. Ennio Cavaiuolo began Arte Grafica Printing with the simple philosophy – to provide quality printing at competitive prices. His son, Tony, continues that tradition today.

The most important factors in business today are customer service and quality of product. We strive to maintain high standards in both of these areas and continually liaise with clients if necessary while jobs are in progress.

Arte Grafica Printing's foundations were built on general jobbing work. Those small job services are still offered today along with the latest in digital technology.

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Austest Laboratories

Exhibitor
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1800 001 411 (within Australia)

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Aurora Space Cluster

Exhibitor
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SmartSat CRC has established a separate company, the Aurora Space Cluster, to represent space start-ups and enable them to participate as a collective Core Partner.

Incorporated with its own Board of Directors, Aurora will provide benefits to its members via initiatives such as:

- Mentoring by industry executives, and support for start-up managers to gain valuable board experience by participating on the board of an incorporated entity
- Opportunities to sit on SmartSat's Industry Advisory Boards
- Education, training and networking events – recent webinars: VCs in Space and Australian Mission Control Centre Q&A
- Opportunities to participate in, and inform, SmartSat projects and activities.



Australasian Society of Aerospace Medicine

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asam.org.au
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+61 418 890 641

Australasian Society of Aerospace Medicine
– Promoting the science of aerospace medicine.

ASAM aims:

- To cultivate and promote aerospace medicine and related sciences;
- To provide an authoritative body of opinion on matters of aerospace medical significance; and
- To increase the awareness of the aerospace industry, government, and the general public of the importance of aerospace medicine to flight safety.

The aims of ASAM are supported by the John Lane Aerospace Medicine Trust. The John Lane Aerospace Medicine Trust provides an opportunity for members and others to support ongoing research into aerospace medicine.





Australian Space Agency
Australian Space Forum Supporter

space.gov.au
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1800 497 182 (within Australia)
or +61 2 6276 1166

The Australian Space Agency's purpose is to transform and grow a globally respected space industry to lift the broader economy, inspire and improve the lives of Australians. As Australia's national space agency, it coordinates civil space matters across government and supports the growth of the Australian space sector.

The Agency is responsible for delivering key space programs that develop national space capability and infrastructure, unlock international space collaboration, and inspire and build a future space workforce. It is also the regulator of Australian space related activities and a facilitator for collaboration across industry, government and academia.

This is all supporting the Australian Space Agency's goal to triple the size of Australia's space industry to AU\$12 billion and create up to 20,000 new Australian jobs by 2030.



Axiom Precision Manufacturing
Exhibitor

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Axiom Precision Manufacturing is a family owned 40 year old Australian Precision Manufacturing company that services the aerospace, space and defence industries. Axiom specialises in the design and precision manufacture of Electromechanical hardware/components, assemblies and sub-assemblies.

Axiom is certified with an AS9100 standard – the internationally recognised Quality Management System for Aerospace and Space, that focuses on the systems necessary, to consistently provide quality products, processes and services.



Avalon 2021 Australian International Airshow and Aerospace and Defence Exposition
Platinum Sponsor

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From 23-28 November 2021, the Australian International Airshow and Aerospace and Defence Exposition (AVALON 2021) will provide a key engagement and promotional platform for Australia's developing space industry.

The Space Industry Association of Australia and Avalon jointly hosted the inaugural Australian Space Industry Conference at Avalon 2019, and will return with an expanded conference program at Avalon 2021.

Avalon 2021 will also feature a dedicated space industry exhibition precinct, adjacent to the Australian Space Agency's presence at the event. This precinct will provide visibility for small to medium Australian space businesses, offering exposure and engagement alongside major international prime contractors and government and civil customers.

Offering a unique scale and diversity of industry participation, AVALON 2021 will foster the engagement and interaction that are fundamental to achieving the Australian Space Agency's goal of tripling the size and revenue of Australia's space sector.



Australian Youth Aerospace Association
Exhibitor
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The Australian Youth Aerospace Association (AYAA) is a non-for-profit organisation managed by student volunteers and young professionals, with the objective of promoting education, awareness and involvement in the aerospace industry to people across Australia.

The AYAA supports several initiatives designed for tertiary students and young professionals, such as the Australian Universities Rocket Competition, Aerospace Futures and the newly established Astra program.

The organisation's state committees also host several local events throughout the year including networking nights, industry panels and mock interviews. By bringing together passionate individuals that inspire and engage, the AYAA is helping to shape the future of the aerospace industry.





which includes Australian-developed satellite terminals for accessing the WGS network. Boeing Australia is also developing innovative approaches to astronaut training, spacecraft design and crew health that will be transitioned to the United States and applies its industry leading modeling and simulation capabilities to enhance decision support and concept exploration in the space domain.

Our research partnerships span CSIRO, the Air Force Research Laboratory, Defence Science and Technology Group, University of Queensland and Adelaide based Myriota to help develop technology that will build new jobs for Australia's future. Boeing Australia's strategic R&D investments support the Australian Space Agency to grow Australia's space industry and the ADF expand its space-based and space-enabled capabilities.

Boeing
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+61 409 208 143

Boeing has a long history of space-related projects in Australia. The company's defence programs include the Boeing-built Wideband Global SATCOM (WGS) and IS-22 satellites used by the Australian Defence Force (ADF) and the Currawong Battlespace Communications System,



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Bureau of Meteorology
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The Bureau of Meteorology is Australia's national weather, climate and water agency. Its expertise and services assist Australians in dealing with the harsh realities of their natural environment, including drought, floods, fires, storms, tsunami and tropical cyclones.

Through regular forecasts, warnings, monitoring and advice the Bureau provides one of the most widely used services of government. Earth observations from space underpin most of the services delivered for emergency management, defence, aviation, and general public.

The Bureau also provides space weather information and warning services working closely with key industries to support operations and infrastructure exposed to space weather risks, such as the space, aviation, energy, telecommunications and defence industries. The Bureau is working with the Australian Space Agency and Government partners such as CSIRO and Geoscience Australia to support the growth of the Australian space industry.



Capricorn Space

Exhibitor
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Capricorn Space is a proudly Australian owned and operated company providing ground segment services to the satellite and space markets. Our initial site near Geraldton in Western Australia possesses many unique aspects not found elsewhere in Australia: including the ability to readily secure ACMA licences, redundant power,

diverse high speed communications, on-site support and a pristine atmosphere for supporting higher frequency and optical based services.

We offer three service models to support all aspects of the market: Retail (use our antennas and modems to communicate with your satellite), Hybrid (connect your customised indoor equipment rack to our antennas) and Landlord (establish your own capability by placing your antennas and indoor equipment at our site). If always-on service availability and long-term investment certainty are important to you then please come and talk to us.



**CSIRO
Technology Partner**

csiro.au
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1300 363 400 (within Australia)

CSIRO have a range of industry support mechanisms to help businesses – both large and small – overcome barriers to innovation. We collaborate with industry, including the start-up sector, providing technical support based on our leading-edge capabilities in space technologies to help streamline and

enhance both the R & D and the operation of projects. We have a long and accomplished heritage in the space sector including our work with NASA, ESA and JAXA as well as other international space agencies – exploring our Solar System and beyond, providing mission support activities and managing complex facilities for space object tracking.

We're also a world leader in advanced manufacturing technologies, radio astronomy and recognised experts in developing remote sensing technologies used for Earth observation as well as our work in data modelling, analytics and development of applications such as Data Cubes.

Our investment in high-performance computing infrastructure and expertise in handling big data allows us to develop insights and solutions to tackle Australia's biggest challenges and opportunities.



From helping the world watch the first steps on the Moon.



Work with us to solve the greatest challenges through innovative science and technology.

To exploring inhospitable terrain with robotics.

Australia's National Science Agency

csiro.au/space



**City of Salisbury
Event Sponsor**

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Located 15 kilometers north of the Adelaide CBD, the City of Salisbury is the fourth largest economy in the State and at the centre of South Australia's economy. Home to the Edinburgh Defence Precinct including Defence Science and Technology Group – Edinburgh,

RAAF Edinburgh, Technology Park and Edinburgh Parks, and with an active civil and defence space community of industry, universities, research centres, and government, the City of Salisbury holds an important position in the Australian defence and space industries.

We are the location of choice for international primes including BAE Systems Australia, Lockheed Martin Australia, SAAB Australia, L3 Harris, Northrup Grumman, General Dynamics Land Systems Australia, and Raytheon Australia, supported by a growing number of innovative SMEs that are playing a crucial role in the future of defence and space activity. If you are a defence or space company, Salisbury is where you need to be.



Clearbox Systems

Exhibitor
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Clearbox Systems is a technology company that develops better solutions for the Operations & Management of Communications Networks and the Electromagnetic Spectrum. To develop innovative solutions, Clearbox Systems specialises in:

- Equipment and Sensor Monitoring and Control (M&C) which consolidates

- operations of equipment and sensors into a single integrated user interface.
- Spectrum Monitoring and Management which provides automatic monitoring and surveillance of spectrum with advanced measurement techniques.
- Network Management and Operational Support Systems which provide operational context to equipment and spectrum resources to enable service delivery.
- Heterogeneous Signal Processing Systems which reduces the reliance on proprietary hardware and increases the flexibility of signal processing.
- Systems Integration and Support Services to provide turn-key delivery of systems using best-of-breed components and considering total cost of ownership.

In Space, we apply these capabilities to Satellite Communications (Control Segment and Ground Segment) and Space Domain Awareness (Passive RF Sensing Technology).



Dedicated Systems have been a supplier to the space industry in Australia and New Zealand since 2014. Our products were designed from the ground up to address the challenges of space and include:

- Ruggedised compute platforms
- Software to ensure reliable operation of critical components
- Cost effective data acquisition solutions.

Dedicated Systems Australia

Exhibitor
 dedicatedsystems.com.au
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Department of Defence – Defence Science and Technology Group

Event Sponsor
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As Australia's second-largest national science agency, the Defence Science and Technology Group at Department of Defence, brings together interdisciplinary expertise from Australia and the world to address Defence and national security challenges. Our role is to work closely

with the Australian science, technology and innovation ecosystem to deliver scientific advice and solutions that provide capability enhancement for Defence and the national security community.

Our scientists work with our counterparts from universities, cooperative research centres, academies and industry to tackle a range of problems, across the maritime, land, air, space and cyber domains. Our partnerships with industry and universities are integral to giving Australia a technological and capability edge. Through More, Together: Defence Science and Technology Strategy 2030 we are building a comprehensive, coherent and agile innovation system. We are collaborating across Government, industry and academia to grow our talent pipeline and inspire future generations of Australians into science, technology, engineering and mathematics careers.



Supported by a strong leadership team, and member firms from over 150 countries across the globe, Deloitte Australia is in the business of solving complex problems. Innovation is the oxygen that powers us, enabling us to embrace the unknown, the chaos, the mayhem, because we know this is where the magic can happen.

Deloitte
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deloitte.com/au/en/pages/aboutdeloitte/articles/about-deloitteaustralia.html
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At Deloitte, we are driven to create an impact that matters at every opportunity. Over our 175-year history, we have built a reputation for impactful delivery across audit and assurance, consulting, financial advisory, risk advisory, tax, and technology services.

Today's environment of accelerating change requires creative problem-solving generated by the fusion of different disciplines. Deloitte's multi-dimensional approach addresses the breadth of perspective needed to deliver breakthrough solutions. We connect the talents of more than 310,000 professionals and our IP and technology alliances—collaborating to drive impact. To explore how we can make an impact that matters with your organisation, let's connect.



More, together: Defence Science and Technology Strategy 2030 marks an important step in taking Defence into the future to deliver strategic advantage across the full spectrum of Defence capabilities. If you would like to come on this journey, and have innovations or ideas that would be of interest to Australia's defence and national security, we want to hear from you.

Learn more about our space focused STaR Shot at dst.defence.gov.au/strategy





Department of Foreign Affairs and Trade

Exhibitor

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DFAT's primary role is to make Australia stronger, safer and more prosperous, to provide timely and responsive consular and passport services and to ensure a secure Australian Government presence overseas. In the Space sector, as innovation flourishes, DFAT collaborates with federal

and state government agencies to pursue economic opportunities, whilst developing international cooperation on the peaceful uses of outer space.

Australia aims to ensure the benefits of long-term sustainability, safety and security in space are shared internationally. Space is also an increasingly contested domain which brings both opportunities and risks for Australia. Nurturing and protecting our interests in space is core business for the Australian Government, so DFAT works to shape rules and norms on responsible behaviour in space within the United Nations and other forums.



Department of Home Affairs

Exhibitor

<https://immi.homeaffairs.gov.au/visas/working-in-australia/visas-for-innovation/global-talent-independent-program>
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The Global Talent Visa Program is a streamlined visa pathway for highly skilled professionals to work and live permanently in Australia. The Program is designed to help grow our innovation and tech economies.

This will create opportunities for Australians by transferring skills, promoting innovation, and creating jobs. The Program targets the brightest and best global talent in ten future-focused sectors – Resources; Agri-food and AgTech; Energy; Health Industries; Defence, Advanced Manufacturing and Space; Circular Economy; DigiTech; Infrastructure and Tourism; Financial Services and FinTech; Education.

The Advanced Manufacturing and Space sectors are both focus areas for the Australian Government. These sectors are undergoing significant global transformation and are important parts of our economy, now and into the future. In 2020-2021, there are 15,000 places available under the program.

For more information, visit www.homeaffairs.gov.au/global-talent



DEWC Systems

Exhibitor

dewc.com
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Conceive. Innovate. Deliver. Repeat. DEWC Systems primarily develops novel and effective solutions to sophisticated challenges faced by the Australian Defence Force and the defence industry in the electromagnetic battlespace. We have collaborated with universities,

DSTG, Defence and other industries to solve interesting problems from the outset. DEWC Systems developed a strong reputation for innovation and helped lead Australia into the Space 4.0 era being the first Australian company to launch a payload on a space capable rocket from Australian soil.

Our work in defence and space has given us a line of products that have application across various industries, including Mining, Information Technology, IoT and Cyber Security. DEWC Systems can offer truly sovereign alternatives and develop solutions that can be tailored for industry needs.



EOS Space Systems

Corporate Sponsor of The Andy Thomas Space Foundation

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EOS Space Systems has been pioneering the use of laser technology for space domain awareness (SDA) and space traffic management for over 35 years. We provide space debris and satellite management solutions, with design, manufacture and

installation of specialised observatories for optical and laser tracking. Our advanced SDA capability allows users to monitor, measure and interpret activities in space, which may be conducted by commercial operators, partner countries or potential adversaries. EOS collects qualified and trusted information to generate actionable knowledge for use in both the civilian and defence domains. Our space based asset supports the calibration of laser systems and is an optical communications testbed. Our EOSCOM satellite has been in orbit and operable since 1998.

Our ground-based space tracking infrastructure employs Australian designs for high accuracy beam director telescopes, high-power laser systems, diffraction-limited imaging systems and high accuracy timing and positioning systems.





Central to our value proposition is our ability to collaborate with our clients and supply chain partners to blend science, technology, innovation and reliable engineering principles to get the right information and technology into the field faster.

Our Space Capabilities include:

- Human Performance Measurement Systems
- Human Health Countermeasures Technologies
- Earth & Environment Observation Sensors
- Ground Systems
- Data Visualisation & Data Analytics

elmTEK

Exhibitor

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elmTEK is a leader in Simulation and Test and Evaluation (T&E) systems development. We are a focused team of scientists and engineers across physics, mathematics, cognitive science, systems, software, and mechatronic engineering disciplines.



NASA bound, people focussed.

Australian developed neuro-sensory performance monitoring and rehabilitation systems.

www.elmttek.com.au/space



We have great relationships with international insurers and underwriting agencies that specialise in insurance with uniquely designed wordings for space liability, assembly integration and testing, transit, pre-launch, launch and post-launch activities. We can also arrange any ancillary insurances, such as General Liability, Professional Indemnity, Cyber, Motor and Business/Office Packages.

Expansainsure

Exhibitor

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Expansainsure are Australia's first locally based space insurance brokerage that specialises in arranging insurance programmes for anyone in the space and aerospace industry, including launch providers, satellite or launch vehicle manufacturers and payload customers.

Expansainsure is an Authorised Representative of Insurance Advisernet, one of Australasia's largest General Insurance Brokers which means we have access to specialised wordings, discounted insurer rates and have great relationships with insurers which allows us to get the best result for our clients.



Fleet Space Technologies

Corporate Sponsor of The Andy Thomas Space Foundation

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Fleet Space Technologies is an Australian satellite company building a global digital nervous system, with five commercial nanosatellites currently in LEO (Low Earth Orbit), and a sixth scheduled for launch in June. The network combines next-generation terrestrial IoT (Internet

of Things) comms, with the latest space technologies to provide the most powerful low-cost industrial connectivity for critical infrastructure anywhere on the planet. We are dominating the "IoT from space" market through our solution built for truly massive IIoT (Industrial Internet of Things) deployments. Centauri 4, the next nanosatellite to be launched later this year, will implement Fleet Space's first 3D printed antenna system, and boasting world-first technology. The Core-2 payload has an increased number of channels and hence a higher data capacity than previous iterations, bringing further improvement in performance for our customers.

Founded in South Australia in 2015, Fleet Space Technologies made history by launching Australia's first commercial nanosatellites in 2018, the beginning of a planned constellation of 140 LEO nanosatellites that will connect billions of digital sensors across the globe.



Firefly Biotech

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Firefly Biotech was launched in response to insufficient market supply of appropriate tools that allow research biologists access to space environments for their research. Having worked with a small university team to investigate the effects of microgravity on wound healing and cancer models, founder Giles Kirby was surprised at the limited off-the-shelf hardware options and high barrier-to-entry. With an initial drive and vision to develop benchtop apparatus for microgravity research, Firefly Biotech utilises/develops refined algorithms to drive dual axis clinostats, fluid handling manifolds and in-line analysis tools able to detect subtle biological changes. Firefly Biotech will leverage this market opportunity to supply researchers with the tools they need to effectively explore microgravity.



Frazer-Nash Consultancy Ltd
Corporate Sponsor of The Andy Thomas Space Foundation

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Whether you are a start-up or an established entity, we can help you bridge the gap from earthly concept to space-based reality.

We are a leading systems and engineering technology company renowned in the

defence, transport, energy, resources, government, and industry sectors, and now Space. Our experienced and knowledgeable space practitioners provide independent technical, safety and organisational advice that value adds to your enterprise.

Our broad expertise and applied insight come from detailed knowledge gained from a wide range of disciplines and their application across different markets. While our deep knowledge-base allows us to transfer our skills, experience, and best practice to deliver successful outcomes for our clients.

Our Systems Approach responds to your challenges, informs us of the issues surrounding your technical needs, and delivers demonstrable business and technical value.

Bridging the Gap Between Ideas and Outcomes.



GENTEX Corporation

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GENTEX Corporation is an Innovation Partner for many of today's Advanced Aerospace platforms including the Joint Strike Fighter (JSF 35) Program. GENTEX Corporation is called upon for specialised projects that require customisation of personal protective products for NASA

programs, such as the early Space Shuttle missions, and commercial projects, such as Burt Rutan's Scaled Composites and SpaceShipOne repeated launch as part of the race for the Ansari X Prize.

Over 126 years of superior performance has firmly established a "world's best" reputation and pedigree and as such GENTEX Corporation, is recognised as a global leader in personal protection and situational awareness solutions for defense forces, emergency responders, and industrial personnel. We provide product, services and support for end users within the Commercial Air, Military, Space and Life Support Equipment sectors.



Geoscience Australia
Gold Sponsor

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1800 800 173 (within Australia)

Geoscience Australia is Australia's pre-eminent public sector geoscience organisation. We are the nation's trusted advisor on the geology and geography of Australia, and apply science and technology to describe and understand the Earth. Geoscience Australia has a long history of bringing the benefits of space down to Earth – both globally and locally.

Under the Australian Civil Space Strategy, we lead the delivery of operational earth observations and a world-class positioning infrastructure to boost economic growth and improve the lives of all Australians.





Australian Government
Geoscience Australia

Geoscience Australia Bringing the benefits of space to all Australians



ga.gov.au/space

GA PP-3682



Gilmour Space Technologies
Corporate Sponsor of The Andy Thomas
Space Foundation

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Gilmour Space Technologies is a world-leading Australian rocket company developing affordable and reliable rockets that will launch small satellites into low earth orbits from 2022.

Since launching their first hybrid rocket in 2016, Gilmour Space has raised AUD \$26 million in venture capital funding, signed a Space Act Agreement with NASA, and secured multi-million-dollar launch contracts with Australian and international customers. With more than 60 employees in its Queensland rocket facility, the company is actively partnering with local companies, universities, government, and defence organisations to build Australia's sovereign space and launch capabilities.

Find out more at www.gspacetech.com



Gravity Challenge

Exhibitor
gravitychallenge.space
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The GRAVITY Challenge is a compelling demand driven space innovation program initiated in Australia, now scaling out globally, through a purposeful collaboration involving the Government of South Australia, the Australian Space Agency, Deloitte, AWS and the UK Space Applications Catapult and supported by Lot Fourteen, Pivotal, Airbus, Land Services SA, Maxar, Planet,

Geoscience Australia, Southern Launch, Saber Astronautics, Stone & Chalk and SmartSat CRC.

Since inception the GRAVITY Challenge program has experienced a stellar 350% growth, boasts a space innovator community of 300+ teams (and growing!) and tackles high value industry, government and community challenges across a range of sectors and issues including defence, mining and energy resources, insurance, utilities, telecommunications, transportation, agriculture, healthcare, environmental and emergency management.

Leveraging space data and space capability, the program brings together entrepreneurs, universities, government and businesses and is making an impact that matters to real world issues.



Hamilton Secondary College

Exhibitor

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Our vision is to create innovative STEM leaders of tomorrow who confidently build a better future. We strive to deliver a contemporary and rigorous curriculum that excites our students and instils passion and love for STEM learning. Our graduates will be forward thinkers, innovators, leaders and shapers in the space and medical sector.

Our core commitments consist of delivery of cutting edge teaching and learning that enables our graduates to be globally competitive and building dynamic partnerships so that our students know about and are at the forefront of career opportunities that exist for them. Hamilton Secondary College Space School offers programs in challenging and immersive space curriculum, clubs, challenge camps, excursions, conferences, competitions and Mission to Mars challenges.



HEO Robotics

Exhibitor

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HEO Robotics provides space situational awareness and on-orbit inspection services which help satellite owners/operators to identify, monitor health, and manage their assets in space. HEO does this by combining intelligent control with space-based cameras to acquire high quality imagery not before possible. The company currently uses 15 satellites in orbit.

Hub&Spoke

Strategy Design Transformation

Hub & Spoke

Event Sponsor

hubandspokesolutions.com.au

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Hub & Spoke is a leading multidisciplinary consulting and design company. We help organisations across the private, public and social sectors develop solutions that define businesses, improve governments and allow communities to flourish. We bring together the best strategic thinkers, advisors, architects, designers, polymaths, digital, leadership, marketing, media and indigenous experts to transform great ideas into world class experiences, buildings, spaces, products and services that create value and achieve positive social impact. Collectively we provide the space sector and a diverse range of clients with flexibility and choice to find more ways to innovate and do business. If you have a bold agenda, want to achieve the extraordinary and would like a visionary partner we are ready to collaborate with you.

Hub & Spoke, consulting and design partner for the 11th Australian Space Forum, a visionary partner to the Australian space sector.

Hub&Spoke

Strategy Design Transformation

hubandspokesolutions.com.au





Inovor Technologies
Corporate Sponsor of The Andy Thomas Space Foundation

inovor.com
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Inovor Technologies is a wholly Australian owned company located at Lot Fourteen in Adelaide, South Australia.

We are leaders in small satellite technologies, electronic warfare and research and development, and provide turnkey satellite mission solutions using our unique Australian-made family of Apogee satellite buses.

We employ specialist engineers and scientists, and use local Australian industry suppliers and manufacturers.

In addition to the satellite missions we are building for our customers, Inovor Technologies has two of its own missions in development.

The first mission, Hyperion, is a small space-based satellite Earth Observation sensor to support the Space Domain Awareness capability of the Royal Australian Air Force.

The second is our Skyris mission which uses our on-board machine learning algorithms from Hyperion and applies them to an Earth imaging satellite constellation for smart Earth imaging.



Institute for Photonics and Advanced Sensing (IPAS)

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With over 200 researchers working across the areas of physics, advanced manufacturing (including 3D metal printing), engineering, maths, chemistry and biology, IPAS is at the leading edge of global research in advanced photonic sensing. Our scientific and technical excellence complements a long history of facilitating industry development. We offer a unique platform for external engagements, due

to our breadth of work and effective delivery on research and industry projects. We also deliver on our vision by helping our researchers commercialise their innovations. Our intellectual property has underpinned several IPAS contributors' photonic companies. Many of today's problems can be overcome by combining specialist knowledge in science, engineering and technology with an entrepreneurial mindset.

At IPAS we see our mission as building transdisciplinary research to develop ground-breaking sensing and measurement technologies. We hope that, through the power of light, we can enhance our community's safety, health and prosperity. Photonics gives us new tools for measurement – including ultra-fast, sensitive and portable sensors to support decision making, precision timing and navigation solutions and new sensor platforms for space. Photonics research is driving the development of new technologies to underpin transformations in manufacturing, space, health, mining, agriculture and the environment.



Italian Chamber of Commerce and Industry in Australia

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The Italian Chamber of Commerce and Industry in Australia was established in 1922 with the objective of promoting trade and commerce between Italy and Australia. ICCIAUS has helped a countless amount of companies in both Nations become

successful in their business ventures, as well as fostering a range of trade developments. Our Chamber of Commerce is at the forefront of business both in Australia and in Italy, assisting in trade and investments in both directions in all sectors: from infrastructure to aerospace and from manufacturing to retail.

ICCIAUS is the oldest and most active Italian Chamber of Commerce in Australia and it is part of the Sistema Italia together with the Italian Embassy, the Consulate General, the Italian Trade Agency and other Italian Institutions. Our network counts 81 Italian Chambers worldwide, operating in 58 countries, assisting 25,000 members, a global turnover of \$75 million and over 2,500 employees.



Jarmyn Enterprise Space

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Jarmyn Enterprise Space Pty Ltd was officially established in August 2020 in the pursuit of developing launch vehicles and space technology.

Jarmyn Enterprise Space has been planning its space activities since 2018, with long term ambitions until 2050, in areas involving advanced aerospace propulsion,

launch vehicles, aerospace UASs, space infrastructure, etc. Current operations focus on the growing space market in South Australia, Australia and Internationally, catering for cubesat and nanosat launches using the Hawk Jnr SSTO Methalox launch vehicle.

There is also development Begun on the Stingray Space Plane, planned to be used for launches, recoveries and repairs of satellites and other space technologies.

And for those not wanting to venture into orbit we are also in the final stages of design of the Hawk Jnr Special Sounding Rockets for high altitude payloads.

The team of Jarmyn Enterprise Space are dedicated to our work and our goals.



Jones Harley Toole

Jones Harley Toole
Professional Partner of The Andy Thomas
Space Foundation
jht.com.au
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+61 8 8414 3363

Jones Harley Toole offers bespoke solutions to advanced technologies industries and to industries utilising and providing space services.

With a unique understanding of Australia's space sector, our experience in business, strategy and legal services advice will strengthen your commercial development and mitigate future challenges.

Our advanced technologies and space services include:

- Access to collaborations in space and defence
- Bid preparation
- Business structure and corporate governance
- Employment, education and training
- Insurance
- International treaty and legal advice
- Space law, regulation and licencing



Locus Rose
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Locus Rose wants to produce compact and portable parabolic (dish) antennae for use in the space industry. Using 3D printing techniques, our design will feature geometric shapes that will ensure compactness and reflectivity, while improving signal strength. Our antennae will deploy into a predetermined shape using our novel and cost-effective system.



Leonardo Australia
Exhibitor
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Leonardo Australia is the regional subsidiary of Leonardo, a global high-tech company and a key player in aerospace, defence and security. Leonardo Australia has been supplying Australia since 1885 and has a mandate to represent all Leonardo Lines of Business, Subsidiaries and Joint Ventures in Australia and New Zealand.

The principle business activities of Leonardo Australia rest within helicopters, naval projects and electronics as well as a new Maintenance Repair and Overhaul Facility, currently being established in Victoria. Alongside developing projects with SmartSat CRC, Leonardo Australia is preparing to deliver world leading geo-information expertise and unique access to dual military and civil satellites provided by e-GEOS, a joint venture of Telespazio (80%) and the Italian Space Agency (20%).



Nano Vacuum
Exhibitor
nanovactech.com
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Nano Vacuum offer turnkey solutions for the Australian and New Zealand Space, Aerospace and Defence industry including:

- Space simulation vacuum systems with heating/cooling control including instrumentation feedthroughs and data logging.
- Portable and temporary cleanrooms rated to Class 100/ISO 5 standards for assembly of particle sensitive devices.

- Helium leak detectors, wire and die bonders, 3D non-contact metrology testing tools.
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- Gloveboxes for laser welding, battery research and assembly of oxygen and moisture sensitive components.
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- Dilution fridges for quantum Computing.

With over 20 years experience we have the knowledge and references to help you succeed with your next project.

Please feel free to contact Nano Vacuum at info@nanovactech.com or visit our website: www.nanovactech.com





Neumann Space
Corporate Sponsor of The Andy Thomas Space Foundation

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Neumann Space is a South Australian company developing an efficient and scalable in-space electric propulsion system for satellites. The Neumann Space thruster marks a revolution in the field of satellite propulsion. Our lightweight

products use our patented Centre-Triggered Pulsed Cathodic Arc Thruster (CT-PCAT) technology to convert solid conductive propellants into plasma and produce thrust. Our product range creates value for our customers in all space operations and travel. For example, our thruster can fulfil all requirements for Low Earth Orbit (LEO) mission profiles such as extending mission lifetimes, station keeping, orbit raising, constellation phasing, inclination changes, de-orbiting and more. Neumann Space is the only Australian company able to provide a sovereign in-space electric propulsion system capability. With Neumann Space, Australia will be poised to take advantage of the rapidly growing global CubeSat and SmallSat markets.



Nova Systems
Corporate Sponsor of The Andy Thomas Space Foundation

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For over two decades, Nova Systems has been successfully solving complex challenges that matter for organisations, in Australia, and around the world. Nova Systems has strong capabilities in remote sensing, mission planning, geospatial intelligence and space operations.

In South Australia, the company's Nova IGS Network is providing space ground connectivity for small satellite operators with the site now being used by international clients including Tyvak USA and RBC USA. Based on a 21 hectare site in Peterborough in South Australia's mid north, the site is used to track low earth orbit satellites through customer's own terminals and Nova has plans to attract further European companies over upcoming years.

Nationally, Nova Systems has signed an agreement with the Australian Space Agency for the provision of specialist advice in support of turnkey launch, re-entry and ground capability services.



One Giant Leap Foundation
Lunch and Break Sponsor

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The One Giant Leap Australia Foundation advances STEM education and careers. We provide life changing opportunities for students and educators to develop and build their knowledge and understanding of Science, Technology, Engineering and Mathematics. Our vastly engaging educational programs about space science, technology and exploration are unique, equitable and diverse. The Foundation is an agile and flexible organisation that connects government with industry, innovation, and the community. We are making the impossible possible.

Australia's leading STEM provider

Build your knowledge and understanding of STEM and STEAM with our unique and exciting educational programs for all ages.

<https://onegiantleapfoundation.com.au/>





PKF Adelaide has an integral role in the innovation and business patchwork that defines South Australia. We know this state is a thriving hub for new ideas, progress and big thinkers, and we take our role in supporting those decision makers across various industries very seriously.

PKF Adelaide
Professional Partner of The Andy Thomas Space Foundation
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We understand what makes businesses successful in South Australia – we live and breathe the state. We also support businesses to expand nationally and globally. Our local expertise is matched by PKF offices based nationwide and a network of experts across the world.

Think of us as your business and wealth-building partner – PKF Adelaide will turn opportunities into real outcomes for your business and personal wealth.



QuintessenceLabs is the leader in quantum cybersecurity. Our products integrate quantum technology with high-value security, including the fastest true random number generator, and our crypto-agile key and policy manager, keeping organisations secure today and tomorrow.

QuintessenceLabs
Silver Sponsor
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QuintessenceLabs is a pioneer in quantum key distribution, protecting information from the threat of quantum computers.



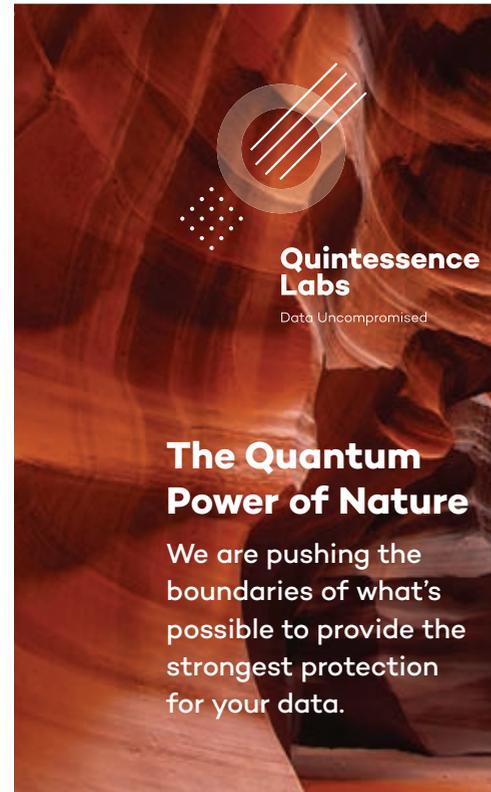
devices. We have a “passion for precision” and believe that precision measurement is a major driving force for all human endeavour.

Cryoclock, our flagship product, is the world’s most precise clock – thousands of times more precise than current timing, losing just one second for every 40 million years of operation. This leading-edge technology is just one of many being developed for a range of sovereign and global applications including Australia’s Jindalee Operational Radar Network (JORN).

Our production and test facility, based at the Lot Fourteen Innovation precinct in Adelaide, is providing a unique sovereign industrial capability to support Australian Defence and Space programs in radar, sensing, quantum technology and timing/positioning networks.

QuantX Labs and Cryoclock
 Exhibitor
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QuantX Labs aims to be the premier, sovereign provider of the highest precision timing and sensor products used in defence, space and critical infrastructure. Our specialised team have more than 70 years combined experience in the invention and development of precision measurement



We secure your data today and deliver quantum security for tomorrow.

- Crypto-agile
- Key and Policy Manager
- True Random Number Generator
- Quantum Key Distribution
- Virtual Zeroization
- Encryption Solutions

The Quantum Power of Nature

We are pushing the boundaries of what’s possible to provide the strongest protection for your data.

www.quintessencelabs.com





Raytracer's mission is to develop new technology capability within the Australian Space and Defence industries. With expertise in hardware, software, aerospace and robotics, our team helps our clients to build mission critical technology solutions. To do this we use the latest in AI and spatial computing to build new autonomous systems, human to machine interfaces and simulation tools.

Raytracer

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ResearchSat is a space hardware company developing life-science experiments for bio-medical research. Our aim is to free the researcher from all the hassles of developing, launching and retrieving space experiments for his research, so that he can only focus on his research without worrying about the logistics of getting into space.

ResearchSat

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In the microgravity environment of space, things behave differently and unexpectedly. This unique environment has the potential to be the birthplace for cures to existing diseases, new medicines and production of material to enable humankind to explore the darkest corners of the universe.



Rohde & Schwarz Australia

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+61 402 590 264

The Australian subsidiary of Rohde & Schwarz, has been operating in Australia since 1981. In the space domain we can assist with:

- Satellite payload testing (test and validation performance at component, subsystem and system level)

- Antenna and EMC test systems & solutions and receiver testing
- Multi-constellation GNSS simulation and ground station and ground terminal testing
- Timing Systems and Solutions
- Communication System Monitoring
- Quality of Service Monitoring
- Satellite Uplink Amplifiers
- Air Traffic and Marine Radio Systems
- Spectrum Monitoring

Rohde and Schwarz develops and manufactures electronic goods for defence, industry, infrastructure operators and government customers.

The independent group is among the technology leaders in integrated communications solutions, including wireless communications and RF test and measurement, broadcast and media, air traffic control and military communications, cybersecurity and network technology.



Saab Australia

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Saab Australia is a Defence, Security and Space solutions provider specialising in the development and integration of command and control systems. With over 570 experienced staff and a reputation for achieving mission critical complex systems integration projects, Saab has proven its capabilities over more than 30 years. Saab leads key research and development for Australia's future combat power and rolling out technology to protect Australia's critical infrastructure to keep people and society safe.

As a premier provider of command and control, communication, computing, cyber, intelligence, surveillance and reconnaissance solutions for the Australian Defence Force and civil security community, Saab has proven sovereign expertise which is highly transferrable to Space solutions.





**Saber Astronautics Australia
Networking Lounge Sponsor**

saberastro.com
Contact: Dr Jason Held
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+61 433 178 740

Saber Astronautics' mission is the democratisation of space, reducing barriers to space flight, and making space as easy as driving a car. Saber uses next-generation space mission control software developed by an experienced team of space operations, systems control,

UX, and robotics experts. Saber brings together the latest techniques in human factors, artificial intelligence, and dynamic 3D data visualisation to make it easy for spacecraft operators to monitor, fly, and rapidly diagnose faults in spacecraft systems in various innovative ways. Saber Astronautics has recently been selected for a \$6 Million grant for the development of Australia's Mission Control Centre, located at Lot Fourteen, Adelaide.

Branded as the "Responsive Space Operations Centre" (RSOC), Saber will bring next generation space mission control technologies to make it easier to fly new spacecraft. Capabilities include concurrent design, pre-flight testing, launch support, as well as live operations during flight.



Safety from Space

Exhibitor
icc.unisa.edu.au
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Safety from Space was founded in 2018 by Dr Mark Rice for the advancement of distress-related communications and navigation technology to assist Australia's emergency management response. We are working with government and international agencies to utilise existing satellite infrastructure and define a new class of messaging device. The core technology is developed in Australia, with local product design and manufacture. Applications for astronaut safety on the NASA's Moon to Mars missions are being explored with our partners.



**Serafino Wines
Event Partner of The Andy Thomas
Space Foundation**

serafino.com.au
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+61 8 8323 8911

Set on sprawling lakeside grounds, Serafino Wines, a family owned business since 1972, is located in the heart of the Fleurieu Peninsula, nestled between the sea and the hills. Serafino Wines has developed a reputation as one of Australia's most

respected wineries and leading producers of Italian style red wines. Our brand portfolio - Serafino Terremoto, Serafino Sharktooth, Serafino black label, Bellissimo and Goose Island.

Serafino occupies a prime position on iconic Kangarilla Road in McLaren Vale. If the 'vines by the sea' vibe of the region hasn't already charmed, then the incredibly scenic setting for the Serafino Cellar door, Restaurant, Accommodation, Conferences facilities, Serafino major events and experiences and Function Centre surely will - swathes of gum trees, animal life, the rustic-meets-modern charm of the winery buildings and of course the all important vineyard vistas, all conspire for an outstanding visit to one of the region's best producers.

**Serafino - more than just a Winery
- it's a Destination.**



Serafino Wines, a family owned business since 1972, has developed a reputation as one of Australia's most respected wineries and leading producers.

If the 'vines by the sea' vibe of the region hasn't already charmed, then the incredibly scenic setting for the Serafino Cellar Door, restaurant, accommodation, conference facilities, major events and function centre surely will.

serafino.com.au | 39 Kangarilla Road, McLaren Vale, 5171 Australia





Scitek has been a vacuum and temperature control specialist business for over 30 years. To date we have supplied 15-20 customised chambers that are directly and indirectly related to space research. We can design, fabricate and tailor to your specific needs for simulation and testing. Our capability includes vacuum systems that achieve down to 10⁻¹²mbar pressure and a temperature range from near absolute zero (near 0° Kelvin or -273° Celsius) to 400° Celsius.

We supply relevant component level technologies used in space research including vacuum pumps, vacuum gauges, gas analysers and much more.

Scitek Australia

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Solinnov Pty. Ltd. is a privately-owned Australian company (SME) focussing on providing customised solutions in high-performance embedded signal processing systems. We design innovative real-time signal processing algorithms with the capacity to interpret and transmit signals within software defined radios.

With a sophisticated intellectual property (IP) library and successful track record of exceeding customer expectations, we are competitive both locally and on an international scale, delivering to Defence and commercial sectors.

Solinnov

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Sitael is the largest privately-owned space company in Italy and worldwide leader in Small Satellite production (50kg to 300kg), Satellite Avionics and Electric Propulsion.

Sitael Australia was established in 2018 to design and manufacture small satellites in Australia for Australian and regional customers, and is currently working on multiple spacecraft programs locally.

Sitael Australia

Exhibitor
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info@sitaelaustralia.com



Home to the Australian Space Agency and over 80 space-related organisations, South Australia is the undisputed national centre of Australia's space industry.

The South Australian Space Industry Centre (SASIC) drives space industry innovation, research, and entrepreneurial growth, thus developing a thriving South Australian space ecosystem, that supports Australia's national space strategy, and builds opportunities for NewSpace.

The space industry contributes to the development of other priority sectors for South Australia, including defence, agriculture, mining and tourism, and services for the community such as health and education. SASIC remains committed to exploiting disruption, harnessing innovation, and leveraging strong support to strengthen our space industry.

South Australian Space Industry Centre

Major Sponsor
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SOUTHERN LAUNCH

Southern Launch

Exhibitor

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Southern Launch is a privately owned Australian space launch services company headquartered in Adelaide, South Australia. Southern Launch evaluates, designs and operates rocket and UAV test ranges around the world, as well as providing launch service provisions to payload customers.

In South Australia, Southern Launch owns and operates the Koonibba Test Range (KTR), a 145km long sub-orbital range in the Australian Outback, and are developing the Whalers Way Orbital Launch Complex (WWOLC) on the southern coastline of South Australia to address an identified emerging gap in the high inclination orbital rocket launch market.



Space Machines Company

Exhibitor

spacemachines.co

Contact: Hugo Hart

hugo@spacemachines.co

+61 427 493 401

Space Machines Company is an Australian start-up that is developing in-space transportation capabilities to cost-effectively insert small satellites into desired low earth orbits (LEO), geostationary earth orbits (GEO) and lunar orbits. Space Machines Company has contracted Gilmour Space Technologies to launch the largest commercial satellite built in Australia in March 2022 to test their platform. With a focus on building infrastructure for the Space Economy, Space Machines Company performs transit, servicing and long endurance missions through our fleet of Optimus Space Transports.



Building Australia's Space Industry

One of the most significant space research collaborations ever forged in Australia.

The goal is to create a globally competitive and respected space industry for Australia through research and collaboration.

This research powerhouse brings together nearly 100 international and national partners who have invested over \$190 million. Together with \$55 million Federal Government support, this represents a \$245 million research effort over seven years.

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Australian Government

Department of Industry, Science, Energy and Resources

Business

Cooperative Research Centres Program





Established in July 2019, the SmartSat Cooperative Research Centre brings together over 100 national and international partners who have invested over \$190 million, along with \$55 million in Federal Government funding under its Cooperative Research Centres Program, in a \$245 million research effort over seven years.

SmartSat Cooperative Research Centre
Supporting Sponsor

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andy.koronios@smartsatcrc.com
+61 438 851 905

Working closely with the Australian Space Agency, SmartSat will make a strong contribution to the Australian Government's goal of tripling the size of the space sector to \$12 billion and creating up to 20,000 jobs by 2030. Priority industry sectors for SmartSat include telecommunications, agriculture and natural resources, transport and logistics, mining, and defence and national security.



The Space Industry Association of Australia (SIAA) is a national organisation formed to promote the growth of the Australian space industry. We speak with authority and credibility on behalf of our members on policy and commercial issues connected with the Australian space industry.

Space Industry Association of Australia
Exhibitor

spaceindustry.com.au
Contact: Sherri Dawson
operations@spaceindustry.com.au
+61 488 105 775

The SIAA has a lead role in advising government on behalf of the space industry. Through a program of meetings and other communications, SIAA consults with its members to devise policies to support the development of the Australian space industry and is active in promoting commercial, industrial and research opportunities for its members nationally and internationally.



they will be world's first ultra-light weight, wearable, irradiation stable and flexible nano-batteries. NASA approved components will also allow them to be transported to the space safely. The final products for commercialisation will be ready to use and installed into spacesuits and other equipment used by astronauts for future missions like Artemis and Lunar Ascent.

Spacelis

Exhibitor
spacelis.com
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guler.kocak@flinders.edu.au
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Developing solar energy technologies for space exploration is our ultimate path by investigating more innovative ideas, establishing collaborations and contributing to South Australia's significant role in global space missions starting with humanity's return on the Moon and later Mars.

SPACELIS is a start-up focusing on designing solar cells that will be used in future space missions as they are good candidates to operate efficiently in space with their novel architecture and ability to adapt to other harsh environments. SPACELIS solar cells are the future best alternatives to inorganic solar cells used in space technologies as



Stone & Chalk is a non-profit that exists to nurture, connect and propel entrepreneurs seeking to solve the world's most pressing business and social challenges.

Stone & Chalk

Exhibitor
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In 2019 Stone & Chalk partnered with the South Australian government to launch the Startup Hub at Lot Fourteen in Adelaide, where it supports leading Australian SpaceTech companies and acts as a center of gravity for entrepreneurship in South Australia.





Terry Plane (Southerly Buster)
Communications, Media Engagement
and Writing
Professional Partner of The Andy Thomas
Space Foundation
Contact: Terry Plane
thpkpk@gmail.com

My experience includes all streams of media, government, industry, business and the privilege of being one of five executives who managed the creation of the Australian Formula One Grand Prix.

I'm a great believer in communication – external and internal – and my aim is always the achievement of excellence.

My real passion is writing, which is at the heart of all journalism and communication. When it comes to the English language I'm proud to be a pedant! For me, pedantry equals precision.

And in my current role I work to demystify media and assist both sides of the communication equation with accurate, engaging and concise messaging.

VENTURE CATALYST SPACE

Venture Catalyst Space – UniSA
Exhibitor
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jasmine.vreugdenburg@unisa.edu.au
+61 8 8302 0927

Venture Catalyst Space is a globally competitive program which supports founders of startups to develop and grow innovative or disruptive ideas that contribute to the space sector.

Delivered by the University of South Australia's Innovation & Collaboration Centre and supported by the State Government's Space Innovation Fund, the equity-free program gives founders funding, mentoring, and industry networks to help successfully build a scalable and investment ready business.

The one-of-a-kind program delivers individualised support and guidance working with a global pool of industry experts including former NASA astronaut Pam Melroy, the Australian Space Agency, Airbus, Nova Systems, Fleet, Saber Astronautics, Myriota and the SmartSat CRC as well as access to Entrepreneurs in Residence based onsite.

Applications for the next cohort are closing soon. icc.unisa.edu.au



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The University of Adelaide is a world-class research and teaching institution, centered on discovering new knowledge, pursuing innovation and preparing the educated leaders of tomorrow. Australia's third oldest university, the University of Adelaide is proudly ranked in the top one percent

of universities in the world. Adelaide has more than 100 Rhodes Scholars among its distinguished alumni and is associated with five Nobel Laureates. We attract academic staff who are global leaders in their fields, along with the best and brightest students

The Andy Thomas Centre for Space Resources is the University of Adelaide's hub of sustainable planetary resource research, offering a pathway to a unique education and research ecosystem for space resources research and commercialisation.

The Centre brings together research strengths in areas such as resources, processing, manufacturing and engineering to address the challenges faced by long term planetary exploration whilst also ensuring the near-term application here on Earth.

The Andy Thomas Space Foundation thanks their Corporate Sponsors and Professional Partners for their support.



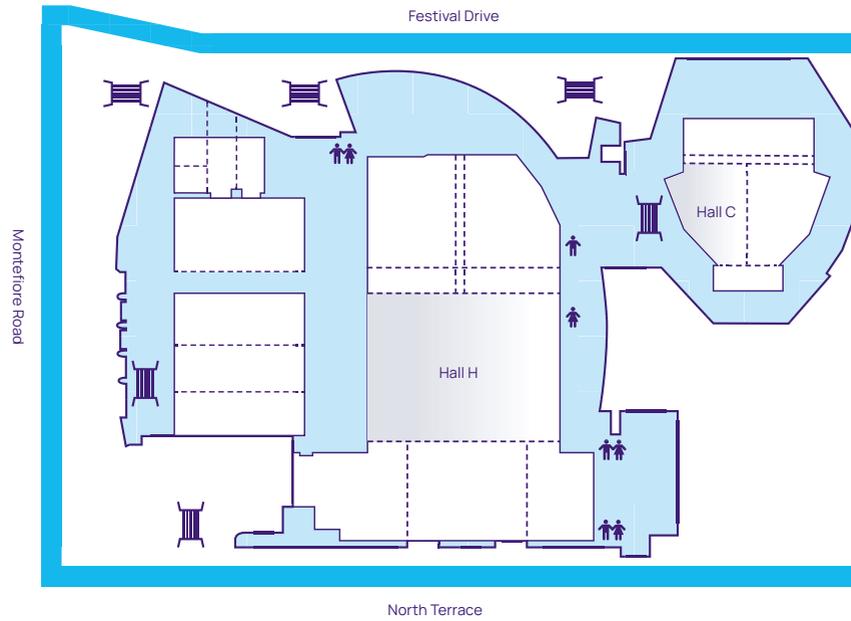
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THE WAY
IN SPACE RESOURCE RESEARCH**

ecms.adelaide.edu.au/atcsr

Venue Map

Adelaide Convention Centre
Ground Level, Hall H & Hall C



- Forum is held in Hall C
- Exhibiton is held in Hall H

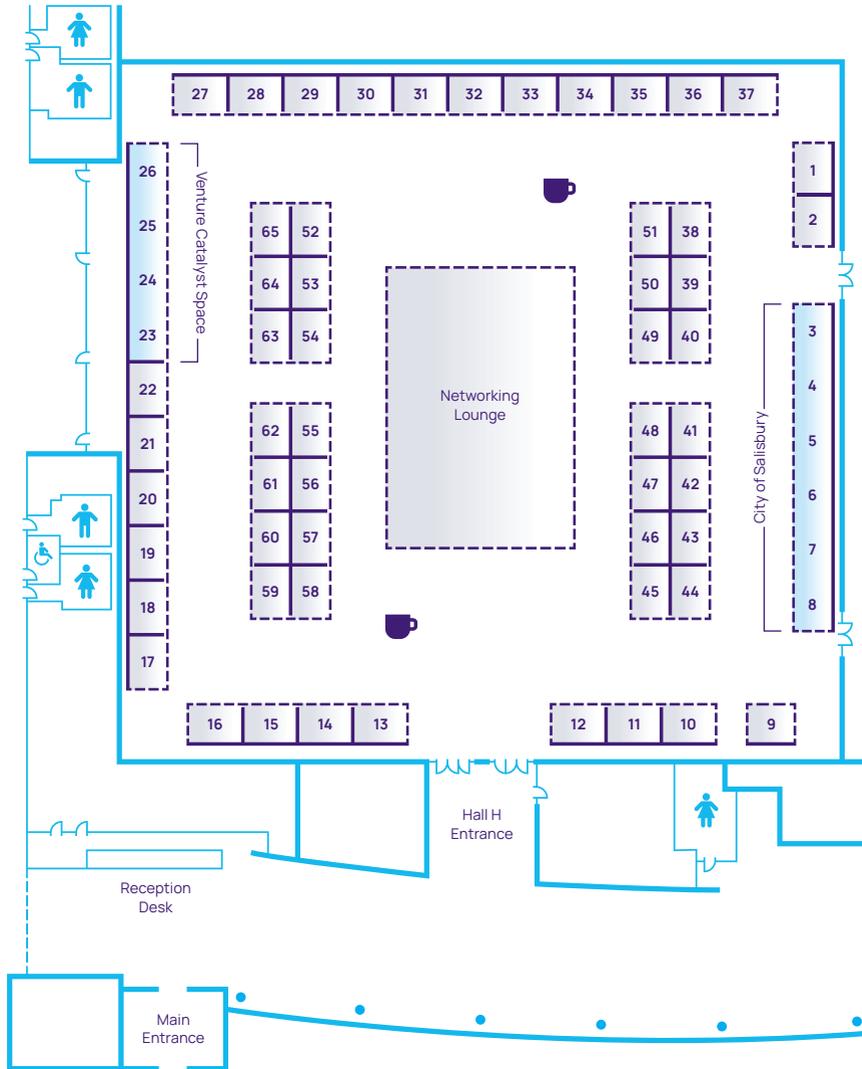
Exhibition Floorplan

Exhibition Floorplan



Exhibition Floorplan

Adelaide Convention Centre
Ground Level, Hall H



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For more information

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