Australia's Future in Space: Making Space for the Social Sciences 17-31 August 2021

Convenors: Professor Roy MacLeod and Claire McFarland

ACADEMY OF THE SOCIAL SCIENCE IN AUSTRALIA

About the Series

The exploration of Space opens many new opportunities for humankind, and presents significant opportunities for Social Scientists to apply their expertise. From sensemaking, to Indigenous astronomy, sustainability, industry, diplomacy and defence, this nine-part series of webinars examines many of these possibilities. This is timely, given Australia's ambitions to develop a national Space policy. The series was produced by Professor Roy MacLeod and Claire McFarland with the support of the Academy of the Social Sciences in Australia, and its CEO, Dr Chris Hatherly, as part of the Academy's workshop program. For their generous assistance with the presentation, we wish to express our thanks to Mr José Torrealba, Mr. Jacob Craig and Mr James Tanna.

About the Convenors



Roy MacLeod, *PhD*, *DLitt*, *FAHA*, *FASSA*, *FSA*, *FRHistS*, *FRSN* is Professor Emeritus of History at the University of Sydney, where he taught for twenty years. Educated in history and the history of science at Harvard University, he received a PhD from Cambridge in 1967 and a D. Litt. in 2001. He has written extensively in the history of science, medicine, and technology in Europe and Asia, and helped establish the field of Science and Technology Studies in Britain, the Netherlands, Sweden, and France. In 2005, he was made a Doctor of Philosophy and Letters (*honoris causa*) by the University of Bologna, and awarded a Research Prize by the Alexander von Humboldt Foundation in Bonn. In 2010, he held the Charles A. Lindbergh Chair in aerospace history at the National Air and Space Museum of the Smithsonian Institution, Washington, DC, and later studied Space science in Göttingen and nuclear history in Hamburg. He was elected a Fellow of the Academy of the Social Sciences in Australia in 1996, the Academy of the Humanities in Australia in 2001, the Royal Society of NSW in 2014, and the International Academy of the History of Science in 2015. In 2003, he received the Centennial of Federation Medal for services to Australian Society, and in 2020, the Medal of the Order of Australia, for services to Education and History.



Claire McFarland has a background spanning three sectors having held senior executive positions in a research organisation, government and industry. Most recently, Claire led the three year Innovation and Entrepreneurship think tank research program at the United States Studies Centre at the University of Sydney, publishing twelve research reports and several policy papers. Prior to this, Claire was a senior executive in the Commonwealth Government, leading government policy and programs to encourage digital takeup. Earlier, Claire led high growth divisions within Telstra and Optus. A Space enthusiast, and endlessly curious about what makes things the way they are, Claire is now a first year PhD student at University of Technology Sydney.

Sensemaking about Space



How have we seen Space? How, more especially, have Australians seen Space? What questions do we have, what answers do we need, as we approach the likelihood of Space landings and habitation? What challenges and opportunities await us? And what dangers and pitfalls must we avoid? How can our different nations and peoples work together in Space? Such questions pose searching social, ethical, philosophical, and cultural dilemmas, and add depth to the challenging agenda that the physical sciences have faced for years. This session seeks to explore these dimensions, and to outline some of the complex predicaments at play in sensemaking about Space. Following a short film, *Moonrise* (Rowena Potts & Ceridwen Dovey, 2021), panellists will share their thoughts about a range of pressing issues, including Space environmentalism, access and diversity within the Space community, and the need for better communication across the arts, the humanities, the social and Space sciences, and the wider Space community.

B	Juan Francisco Salazar (Moderator) is an environmental anthropologist and documentary filmmaker. He is a Professor in the School of Humanities and Communication Arts and Fellow of the Institute for Culture and Society, at Western Sydney University. He is an ARC Future Fellow (2020-2023) with a project titled Australia a Space Faring Nation: Imaginaries of Space Futures.
	Dr Alice Gorman is an internationally recognised scholar in the field of Space archaeology and author of the award-winning book Dr Space Junk vs the Universe: Archaeology and the Future (MIT Press, 2019). Her research focuses on the archaeology and heritage of Space exploration, including Space junk, planetary landing sites, off-earth mining, and Space habitats. She is an Associate Professor at Flinders University in Adelaide and a Vice-Chair of the Global Expert Panel on Sustainable Lunar Activities (GEGSLA).
	Rami Mandow is the Founding Director and Editor of the Australian Space community website, SpaceAustralia.com – a platform that expands the accessibility to Space for young people across Australia through news, events, education and citizen science projects. Currently, he is also one of Sydney Observatory's resident astronomers. In his final year of his Masters of Astronomy & Astrophysics from Swinburne University of Technology, Rami has also dedicated his passion to studying the field of radio astronomy, including researching the exotic and mind-boggling compact remnant objects known as Pulsars. As part of these studies, Rami has logged over 330 hours of observing pulsars across the galaxy, using the CSIRO Parkes Radio Telescope (also known by its Wiradjuri name, 'Murriyang').
	Dr Jeremy Walker is a Senior Lecturer and co-director of the Climate Justice Research Centre at the University of Technology, Sydney (UTS). His research focusses on the history of neoliberal economic theory and government in relation to energy and climate change. His recent monograph More Heat than Life: the Tangled Roots of Ecology, Energy and Economics (2020) presents a panoramic history of the development of (neo-)liberal economic theory in parallel with the emergence of the modern combustion engineering, energy physics and the Earth system sciences.
	Ceridwen Dovey is a fiction writer and essayist based in Sydney. She is the author of several works of fiction (Blood Kin, Only the Animals, In the Garden of the Fugitives, and Life After Truth), and non-fiction (On J.M. Coetzee: Writers on Writers and Inner Worlds Outer Spaces: The Working Lives of Others). Her essays have been published by newyorker.com, the Smithsonian Magazine, WIRED, the Monthly, and Alexander. In 2020, she won a prestigious Australian Museum Eureka Award for her long-form essay critiquing the commercial push to mine the Moon. Ceridwen is a Doctorate of Creative Arts (DCA) candidate within the School of Humanities and Communication Arts at Western Sydney University, and is the writer and

producer of the film Moonrise (2021, 11 minutes).

Australia: First in Space, Lessons from Aboriginal Astronomy



Australia's First Nations are widely held to have been the world's first astronomers. In their history and experience, we find many reasons for better understanding their observations and the purposes of their astronomical knowledge, which both challenge and confirm basic assumptions of Western science. In this history, and in a growing understanding and respect for these traditions, we also find important new possibilities of collaboration and enterprise, and ways of thinking about Space. This session invited discussion on a range of issues. How do we recognise and draw upon First Nations heritage in our conversations about Space? How do we ensure that Indigenous Australians benefit from emerging Space industries? What can First Nations traditions, ideas and ethical systems contribute to living respectfully with each other and with Nature in Space? In their contributions, Ghillar Anderson detailed ancient First Nations stories of astronomical events; Philip Clarke explained Indigenous Australian concepts of time and Space, and the dynamic nature of Indigenous mythologies; and Ray Norris explored Indigenous Australian peoples' contributions to our understanding of planetary motion, tides, seasons, and eclipses. Together, they argued the importance of recognising the depth of Indigenous Australian learning about the past, as we move into the interplanetary future.

Roslynn Haynes (Moderator) is Adjunct Associate Professor in Arts and Media Studies at UNSW and a Fellow of the Australian Academy of the Humanities. She completed a science degree before turning to humanities and continues to find most interest in interdisciplinary research. Her publications involve literature, science, cultural studies, art, and film. Since 1988, she has been fascinated by Aboriginal astronomy and particularly its similarities and differences from Western science. She is currently completing a multi-disciplinary book on the Australian desert.
Michael Ghillar Anderson is Senior Euahlayi Law Man from Goodooga, New South Wales, and an Aboriginal rights activist. In recognition of his contribution to astronomy, an asteroid has been named in his honour ('10040 Ghillar'). He has been giving oral presentations of First Nations stories of the universe, and recently reached a wider audience in the film Star Stories of The Dreaming. In these Star Stories, he has revealed ancient stories of the stars, blackholes and the creation of the natural world.
Dr Philip Clarke is a Consultant Anthropologist based in Adelaide, and in this capacity is currently working on land rights and native title claims, as well investigating Indigenous heritage issues. He has conducted fieldwork for over 40 years with a wide range of Aboriginal communities and provided advice to government agencies, universities, corporations and Indigenous representative bodies. He specialises in the ethnosciences as a means of illustrating how culture determines and shapes the many ways that people perceive the universe.
Ray Norris is a Research Professor at Western Sydney University and Emeritus Fellow at CSIRO Space & Astronomy. Previous career highlights include Director of the Australian Astronomy Major National Research Facility. He now studies the distant Universe, including initiating the Evolutionary Map of the Universe (EMU) project on Australia's newest major telescope. He also studies the astronomy of Indigenous Australians and is fascinated by their many intellectual achievements as they sought to understand their Universe.

Preparing for a Space Future: Building the Infrastructure



Australia's interest in Space has renewed focus at a government level. The establishment of the Australian Space Agency was a catalyst and federal and state governments have subsequently defined industrial sectors of interest. How can the social sciences contribute? What roles exist for social scientists across academia and practice?

	Donna Lawler (BA, LLB) (Moderator) is a Founder and Principal at Azimuth Advisory, a law firm specialising in Space activities carried out by corporations, universities and governments. Over twenty years in the satellite industry, she has been a legal advisor for seven build and launch programs for geo-stationary satellites, launch facilities, launch service providers, operators of cubesat constellations, orbital transport systems, earth and Space observation programs, and lunar missions. She is a member of the International Institute of Space Lawyers and a Fellow of the London Institute of Space Policy and Law.
	Dr Tim Parsons is a deep tech-focused angel investor, facilitator, and mentor who consults widely for clients in Space, digital transformation, and start-up entrepreneurship. He is chair of the Space Industry Association of Australia, founding chair of SmartSat's Aurora Space Start-ups Cluster, coordinates the NSW node of the SmartSat CRC, and is the Australian representative director of Euroconsult, a global Space intelligence group. Tim holds a BSc in Computer Science and Applied Maths from Sydney University, and a BEng and PhD in Aerospace Engineering from Imperial College, London. He is married to Art Director Karen Lee and has two children.
	Frank Robert is an Associated Vice President of Kearney and a member of the Australian Space Agency Advisory Board. With over 30 years of Space and telecommunications experience across 35 countries, he has served on a number of Australian Space Agency committees to establish sovereign capability across design, manufacture, launch, mission and return of spacecraft. He is also on the Advisory Board of the DLR/TRIPLE mission to release a small autonomous probe under Europa's ice.
	Allison Kealy is a Professor of Geodesy in the School of Science at RMIT University. Allison is the Coordinator for Research Capability in the SmartSAT CRC and Deputy Director of the Sir Lawrence Wackett Centre, RMIT's Defence Research Centre. She is a Fellow of the International Association of Geodesy, and of the Royal Institute of Navigation. She is a technical representative to the Satellite Division of the US Institute of Navigation. Allison's research interests include sensor fusion and estimation theory, high precision GNSS and collaborative localisation.

Finding the Profitable Niche: Futures Awaiting Space Industry



from The University of Melbourne.

community.

The Australian Government is now promoting sovereign Space industry capabilities. By this we seek the ability to operate systems developed by others, as well as the ability to invent, manufacture, operate and sell technologies ourselves. The Australian Space Agency was established in 2018 to help create jobs and growth leading to a sustainable and enduring Space sector. This is highly desirable but there are many more jobs likely to be found in Earth-based applications than in the well-known sectors of launch and satellite manufacture. Looking just to technologies that will be needed to support human habitation on the Moon and later Mars, Australia has many important contributions to make in such fields as robotics, remote sensing, food science, Al and machine learning. This session explored some of Australia's 'sweet spots' to identify the major challenges we are likely to confront in realising our ambitions and potential.



Brett Biddington (Moderator) founded his Canberra-based consultancy business in 2010. It specialises in Space and cyber security matters from policy, advocacy, capacity development and educational perspectives. He has a close association with the Victorian Space Science Education Centre (VSSEC). Between 2002 and 2009 he was a member of Cisco Systems' global Space team and prior to that he served in the Royal Australian Air Force (RAAF) for almost 23 years in intelligence, security and capability development roles. He holds an Adjunct Professorial appointment at Edith Cowan University in Perth, Western Australia.
Troy McCann is the Founder of Moonshot. Moonshot develops opportunities by broadening

accelerators and investment funds. The company seeks commercial solutions to humanity's most difficult challenges by translating the intangible into real opportunities with commercial application across industries from health to telecommunications and business functions such as supply chain. Satellite imagery, zero gravity manufacturing, robotics, drones and Artificial Intelligence are all technologies that are innovating and maturing with application in the Space industry. Troy has an extensive

background in computer science and holds a bachelor's degree in electrical and electronic engineering

Carley Scott OAM is the CEO of Equatorial Launch Australia. Carley leads a team that will launch NASA scientific rockets and payloads commercially from northern Australia in 2022. Securing early-stage VC funding, environmental and development approvals, and advocating for support of improved policy and trade settings, Carley is part of the rapidly growing Australian Space community actively collaborating with international partners to deliver competitive commercial outcomes. Carley is an advisor to the CSIRO, active in the Space Industry Association of Australia and is a mentor for Moonshot Space start-up programs. She is widely recognised for her positive impacts on Australian industry and

understanding and cultivating investment and research in Space technology through incubators,







Craig Lindley is a senior computer scientist in CSIRO's Data61, currently working with CSIRO Mineral Resources. His main research interests include artificial intelligence, 3D systems, simulation and cognitive systems applied to Industrial Informatics (Industry 4.0), Mining, Mineral Processing and Space Resources. Craig completed a PhD in Computer Science and Engineering at UNSW in the 1990s on the topic of spacecraft autonomy. He recently completed a project supported by CSIRO's Space Technology Future Science Platform that developed a software analytics platform for Space resource prospecting, initially focused on asteroids and the Moon, called the Celestial Object Resource Atlas (CORA).



Regine Stockmann is a Principal Research Scientist at CSIRO Agriculture and Food and leads the Food Technology Team. She is a qualified chemical engineer with a PhD from Monash University. She has worked in food product and process development for almost 20 years, with a focus on separation and functionalisation processing to derive functional fractions and ingredients for use in foods. Dr Stockmann is a project leader with the CSIRO Space FSP, researching the use of microbial systems like microalgae or yeasts for autonomous production of nutrients essential for health and well-being of Space travellers in controlled zero-waste biofactory systems.

Australians in Space: Living Systems and the Future





Humans will be venturing further into Space over the coming decade than ever before. Explorers will be exposed to the hostile environments and challenges that living beyond the protection of Earth's atmosphere brings. Australian researchers and clinicians are working on strategies that will help humans live sustainably, remain healthy and perform at their best off-Earth. This panel examined Australia's current and future contributions to three areas that humans as living systems require to achieve those goals – psychological support in isolation and confinement, medical care in remote and extreme environments, and growing Space resilient plants for sustainable nutrition.

· ·	Associate Professor Gordon Cable AM (Moderator) is a specialist in aerospace medicine, currently Medical Officer RAAF Liaison within the Office of the Chief Technical Officer at the Australian Space Agency, and concurrently Head of Aerospace Medicine Training at the RAAF Institute of Aviation Medicine. He holds multiple Fellowships of professional aerospace organisations in Australia and internationally, and holds academic appointments at the University of Adelaide and the University of Tasmania where he teaches a postgraduate unit in Space medicine as part of the Healthcare of Remote and Extreme Environments Program.
	Professor Matthew Gilliham is Director of the Waite Research Institute, the University of Adelaide's flagship for Agriculture, Food and Wine innovation, which utilises the breadth of the University's multidisciplinary capabilities to solve pressing challenges. Matthew is a current Clarivate Highly Cited Author (Animal and Plant Sciences) and member of the South Australian Premier's Science and Innovation Council; he emigrated from the UK after a postdoctoral fellowship and a PhD at the University of Cambridge.
-	Professor Siobhan Banks is a Professor of Psychology and Director of the Behaviour-Brain- Body Research Centre, University of South Australia. Her research sits at the nexus of biology, behaviour, and technology. She works with 24/7 industries such as healthcare,
	performance and wellbeing. She has received over \$10M in research funding during her career, ranging from basic to applied research, and her work has been cited over 6000 times (GoogleScholar). In 2019, she was awarded the Australian Council Graduate Research Award for Excellence in Promoting Industry Engagement in Graduate Research

Defending Space



Activity in the Space domain was initially spurred on by Cold War competition between the USA and USSR. Crewed spaceflight, overhead sensing and global Space surveillance networks were limited to these two nations. Over time, many other countries have developed Space programs and industries, including Australia. The UK, France, India, Japan, Canada, Israel and of course the PRC have all surged ahead with their Space programs, as have commercial Space services providers. Space has become an integral enabler of military operations across the land, maritime, air and cyber domains; from the Space-based detection of ballistic missile launches, to overhead intelligence sensing and threat detection, to precision navigation and weapons targeting, to global secure communications. Space has also become increasingly contested, with competing powers such as the USA and the PRC developing plans to deny one another freedom of manoeuvre in Space. The Australian Defence Force is seized by the strategic imperatives underpinning a sovereign Space capability, and has recently announced the stand-up next year of a new Space Division. What is the current state of play in Australia as we look to "Defend Space" alongside our key global and regional allies? What are the challenges we must overcome, and what are the opportunities we need to seize? What are the social science impacts?









Vice Admiral Paul Maddison (Ret'd) (Moderator) is Director of the UNSW Defence Research Institute, responsible for enabling, facilitating, and integrating UNSW's ground-breaking defence research capacity across the whole of the University. With a mandate to build deeper relationships and increased collaboration with Commonwealth, State, industry and international partners, the Defence Research Institute aims to strengthen UNSW's position as Australia's leading defence university, and to play a defining role in accelerating the delivery of capability for the Australian Defence Force. Paul is a graduate of Canada's Royal Military College and served in the Canadian Armed Forces for 37 years. He commanded at all levels, both at sea and ashore, and retired in 2013 from his appointment as Commander of the Royal Canadian Navy. Following this, Paul served as High Commissioner of Canada to Australia, with accreditation to seven Pacific Island Countries. A newly minted Australian citizen, Paul is an (ice) hockey (Toronto) and Aussie Rules (Essendon) fan. He is married to Fay, who hails from Darwin, NT, and who was the strength behind his uniform in Canada for over 25 years.

Christine Zeitz is a leader in Australia's defence industry, with over 30 years' experience delivering world-class solutions and services across the Asia Pacific region to Defence, security, ICT and intelligence customers. Christine was appointed General Manager, Asia Pacific region, at Northrop Grumman in July 2020, with responsibility for all aspects of growth, program awards and financial performance in Australia, and oversight for Japan and Korea market development. Prior to joining Northrop Grumman Australia, Christine served as Chief Executive Officer of Leidos Australia for five years, where she delivered a 100 per cent growth in revenue through an ambitious restructure of the Australian business. This followed roles at Lockheed Martin, where she served as Vice President and Managing Director for Australia and Asia Pacific, and 25 years at BAE Systems Australia in various roles, culminating in her leading the maturation of globally strategic partnerships as President Northeast Asia. Northrop Grumman solves the toughest problems in Space, aeronautics, defense and cyberspace to meet the ever-evolving needs of its customers worldwide. Its 90,000 employees define possible every day using science, technology and engineering to create and deliver advanced systems, products and services.

Professor Russell Boyce holds the position of Chair for Intelligent Space Systems and Director of UNSW Canberra Space – Australia's largest and leading Space mission, research and education team. On the one hand, he has built and led teams pursuing game changing technologies across a three-decade career, firstly in hypersonics and scramjets, and now in the development of artificial intelligence-enabled Space systems. He played a significant role in the establishment of the Australian Space Agency, and is Australia's only living Fellow of the American Institute of Aeronautics and Astronautics. On the other hand, he is a graduate of INSEAD's flagship Advanced Management Program and of the Australian Institute of Company Directors, and is passionate about the art of strategic yet personal leadership in an increasingly complex world.

Air Commodore Philip Gordon is Director General Air Defence and Space, where he leads the multi domain programs for Integrated Air and Missile Defence and Space Control. In 2020, Gordon was appointed Member (AM) in the Military Division of the Order of Australia for exceptional service in aerospace capability development, air combat preparedness and operations management and control for the Australian Defence Force. Prior to his current role, as the Australian Joint Forces Air Component Commander, he was responsible for the air planning, command and control of major exercises and operations globally. He has been awarded a Commendation for Distinguished Service (CDS) for his command of the Air Task Group, which contributed strike, air to air refuelling, airborne and ground based command and control, intelligence, and targeting capabilities to the US led coalition under Operation INHERENT RESOLVE. A graduate of the Australian Defence Force Academy, Air Commodore Gordon is married with two children at university.

Space Diplomacy, Law and Regulation



As Space evolves from being the domain of national governments to include civil and commercial entities, new challenges emerge for governance and regulation. What earthly concepts may apply in Space? How does Australia fit into global Space governance? This panel considered the diplomatic, legal and regulatory parameters within which Australia conducts Space activities. It also interrogated the relationship between diplomacy and industry, law and strategy, regulation and ethics, in the context of issues that will come to define Australia's relationship to Space and with other spacefaring nations in the years to come.



Space and Australia's Future: Facing Fundamentals



Is the development of Space, including the Moon and beyond to Mars, really inevitable? What are the potential risks and benefits and how do we assess the cost:benefit ratio? If Space development is inevitable, how do we ensure that development is fair, equal, and does not damage the Outer Space environment, or is misused in exploiting the resources of Earth? This session explored the potential future of Space use through historical, ethical, and technological lenses.



underpinning a system of lunar property rights.

Making SPACE for Young Australians



The subject of Earth and Space sciences is a topic in the Australian secondary school curriculum, and is discussed from a very early age. With much of our foundational understanding of the place of Earth in Space formed at school, what do children know and think about Space, and about the future of Australia and Australians in Space?

	Kathryn White (Moderator) is a science and engineering teacher at Merici College in		
	Canberra and a Space enthusiast. Kathryn has a BSc (Hons) and a PhD in physical chemistry		
area a	from the University of Sydney. She is certified as a Highly Accomplished teacher, is the		
M-	Program Director of the Australian Junior Science Olympiad, and has led the design and		
	implementation of a novel engineering elective at Merici that includes rocketry and other		
	Space-related topics.		
	Brad Tucker is an Astrophysicist/Cosmologist. Brad received Bachelor's degrees in Physics,		
	Philosophy, and Theology from the University of Notre Dame and a PhD in Astrophysics and		
	Cosmology from Mt. Stromlo Observatory at the ANU. He's leading programs using the		
The second second	NASA's Kepler Space Telescope and TESS to understand why and how stars blow up. He's		
ad t	also building a network of ultraviolet telescopes in the upper atmosphere, a search to find		
E C	Planet 9, as well as a new mission to capture and mine an asteroid. Brad frequently gives		
	talks to school aroups and the general public about Astronomy and chats with the media		
	about Astronomy news and events. Brad has also developed a series of Astronomy coins with		
	the Australian Mint and consulted on science fiction movies. He is currently in the process of		
	writing his first book.		
	Ishita Gupta is a year eight student at Merici College.		
	Kenneth Le is a year nine student at Daramalan College.		
	Arvana Nivakan-Safv is a year ten student at Merici College.		
	Gabrielle Shoebridge is a year nine student at Merici College.		
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	Tristian Tierney is a year seven student at Daramalan College.		



Links

Recordings of the webinar series have been prepared and are available for viewing at the following links:

Session	ASSA Website Link	YouTube Link
Sensemaking	https://socialsciences.org.au/events/sensemaking-	https://youtu.be/TIFADjYgM
about Space	<u>about-space/</u>	
Australia: First in	https://socialsciences.org.au/events/first-in-	https://youtu.be/a7020EJENHg
Space, Lessons	<u>space/</u>	
from Aboriginal		
Astronomy		
Preparing for a	https://socialsciences.org.au/events/preparing-	https://youtu.be/94P9U0-zPgs
Space Future:	<u>for-a-space-future/</u>	
Building the		
Infrastructure		
Finding the	https://socialsciences.org.au/events/finding-the-	https://youtu.be/4WMWrRyC3vw
Profitable Niche:	profitable-niche/	
Futures Awaiting		
Space Industry		
Australians in	https://socialsciences.org.au/events/australians-	https://youtu.be/DNNxLg81u40
Space: Living	<u>in-space/</u>	
Systems and the		
Future		
Defending	https://socialsciences.org.au/events/defending-	https://youtu.be/lg319noT4yE
Space	space/	
Space	https://socialsciences.org.au/events/space-	https://youtu.be/6Tvli6yZHFk
Diplomacy, Law	diplomacy-law-and-regulation/	
and Regulation		
Space and	https://socialsciences.org.au/events/space-and-	https://youtu.be/jD_wLc32dCc
Australia's	australias-tuture/	
Future: Facing		
Fundamentals		
Making Space	nttps://socialsciences.org.au/events/making-	
tor Young	space-tor-young-australians/	
Australians		

