

Third EU–Australia workshop on research infrastructure

5–6 NOVEMBER 2013 SHINE DOME, CANBERRA



An Australian Government Initiative
National Collaborative Research
Infrastructure Strategy





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25 Professor Bob Stimson FASSA

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25 Dr Ross Wilkinson

26 Mr Graeme Wolff

26 Dr Lesley Wyborn

27 Industry links

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27 Dr David Cookson

27 Ms Rosie Hicks

28 Dr Carlos Morais Pires

28 Dr Thomas Schneider

Program

Tuesday 5 November

Time	Activity
8.30 – 9 am	REGISTRATION Collect badges and workshop material Venue Foyer, Shine Dome
OPENING PLENARY Chair: Ms Ditta Zizi Venue: Ian Wark Theatre, Shine Dome	
9 – 9.05 am	<i>Opening and welcome</i> Ms Ditta Zizi, General Manager, Research Funding and Infrastructure Branch, Department of Education
9.05 – 9.35 am	<i>Pan European Research Infrastructures and Horizon 2020</i> Professor Octavi Quintana Trias, Head of Directorate B, European Research Area, Directorate-General for Research and Innovation, European Commission (EC) (10 minutes of question time)
9.35 – 10 am	<i>Research infrastructure policy and priorities in Australia</i> Mr Robert Griew, Associate Secretary, Department of Education (5 minutes of question time)
MORNING TEA 10 – 10.30 am Jaeger Room, Shine Dome	
CONCURRENT THEMATIC SESSIONS SESSION 1	
10.30 am – 12.30 pm	<i>Healthy ageing: overview of capabilities and engagement to date</i> Chairs Mr Andrew Gilbert (Aus); Dr Graham Cameron (EU) Speakers Nominated EU and Australian capability leads; Dr Olivier Salvado: The AIBL study Venue Ground floor boardroom, Ian Potter House
	<i>Sustainable Cities: Introducing Australian e-Infrastructure – AURIN</i> Chair Professor Bob Stimson (Aus) Speakers Associate Professor Christopher Pettit – Overview of AURIN; Dr Jack Barton – Demonstration of AURIN; <i>Group Discussion – What are the opportunities to internationalise AURIN and what should AURIN be doing now that it is not currently?</i> Venue Becker Room, Shine Dome
	<i>Clean energy: setting the scene – PV and CST in Australia and across Europe</i> Chairs Professor Paul Meredith (Aus) [10 minutes]; Dr Manuel Blanco (EU) [5 minutes] Speakers Bernhard Fabianek (DG Research & Innovation, EU) – <i>European energy research infrastructures and programs (CST and PV)</i> [25 minutes]; Dr Manuel Blanco (CST: coordinator of EU-SOLARIS for CTAER) – <i>The EU-SOLARIS program and objectives</i> [20 minutes]; Dr Loreto Valenzuela Gutiérrez (CST: PSA) – <i>PSA facilities and program</i> [20 minutes]; Sarah Miller (CSIRO Energy Flagship) – <i>The Australian solar thermal research initiative</i> [15 minutes]; Wes Stein (CSIRO Energy Flagship) – <i>CSIRO CST research infrastructure and program</i> [15 minutes]; Professor Hal Gurgenci – <i>CST turbine and cooling research in Australia</i> [10 minutes] Venue Upstairs meeting room, Ian Potter House
LUNCH 12.30 – 1.30 pm Jaeger Room, Shine Dome	

Time	Activity
CONCURRENT THEMATIC SESSIONS SESSION 2	
1.30 – 2.45 pm	<p><i>Healthy ageing: current issues and opportunities for collaboration</i></p> <p>Chairs Dr Stewart Hay (Aus); Mr Anton Ussi (EU)</p> <p>Speakers Presentations and group discussion: opportunities for collaboration</p> <p>Venue Ground floor boardroom, Ian Potter House</p>
	<p><i>Sustainable cities: urban data infrastructure</i></p> <p>Chairs Dr Lesley Wyborn (Aus)</p> <p>Speakers Dr Massimo Craglia, INSPIRE; Dr Mohsen Kalantari, Australian SDI; Group discussions: data standards (SDMX), harmonisation, interoperability, European experience – lessons for Australia</p> <p>Venue Becker Room, Shine Dome</p>
	<p><i>Clean energy: setting the scene – PV and CST in Australia and across Europe</i></p> <p>Chairs Dr Muriel Watt (Australian PV Institute)</p> <p>Speakers Questions and comments from previous sessions, any other matters arising [20 minutes max]; Dr Chris Fell (CSIRO Energy Technology Newcastle) – Standards and testing facilities in Australia [20 minutes]; Dr Richard Corkish (Australian Centre for Advanced Photovoltaics) – ACAP, Australia's co-ordinated approach to PV research [20 minutes]; Professor Paul Meredith (Director, UQ Solar) – Australia's Solar Flagships program [30 minutes]</p> <p>Venue Upstairs meeting room, Ian Potter House</p>
AFTERNOON TEA AND MELBOURNE CUP 2.45 – 3.30 pm Jaeger Room, Shine Dome (Melbourne Cup runs at 3 pm)	
CONCURRENT THEMATIC SESSIONS SESSION 3	
3.30 – 5.30 pm	<p><i>Healthy ageing: prioritisation of opportunities</i></p> <p>Chairs Professor Graham Galloway (Aus); Dr Oliver Speck (EU)</p> <p>Speakers Professor John McNeil – The ASPREE study; Group discussion – Prioritisation of opportunities</p> <p>Venue Ground floor boardroom, Ian Potter House</p>
	<p><i>Sustainable cities: agent based urban simulation modelling platforms</i></p> <p>Chairs Associate Professor Chris Pettit (Aus)</p> <p>Speakers Dr Alexander Erath, Singapore ETH Centre – SustainCity; Professor Pascal Perez – Agent based urban modelling in Australia; Discussion – What are the opportunities for collaborating on agent based modeling activities across Australia and the EU</p> <p>Venue Becker Room, Shine Dome</p>
	<p><i>Clean energy: clean energy, BIG research infrastructure and BIG data</i></p> <p>Chairs Bernhard Fabianek (DG Research & Innovation, EU); Professor Paul Meredith (Aus – Director, UQ Solar)</p> <p>Speakers Questions and comments from previous sessions, any other matters arising [20 minutes max]; Dr Thomas Schneider, Group Leader at EMBL Hamburg (structural biology – synchrotron) and representative of the EIROforum [30 minutes]; Dr Sergi Girona, Chair of the Board of Directors, PRACE (High Performance Computing) [30 minutes]; Video conference from Europe: Time slot 4.45 – 5.25 pm to allow for technical issues: Dr Nigel Taylor (Action Leader, Photovoltaic Solar Electricity)</p> <p>Venue Upstairs meeting room, Ian Potter House</p>
JOINT EU–AUSTRALIA RECEPTION AND DINNER	
6.30 pm (sharp)	Meet at Shine Dome for bus to the National Gallery of Australia
6.45 – 7.30 pm	Reception
7.30 – 9.30 pm	Dinner
9.30 pm	Buses depart the National Gallery of Australia to accommodation

Wednesday 6 November

Time	Activity
INDUSTRY LINKAGES PLENARY Chairs/facilitators: Ms Rosie Hicks, Australian National Fabrication Facility (ANFF); Dr Susan Anson, EUMINAFab Venue: Ian Wark Theatre, Shine Dome	
8:30 – 10:30 am	<p>Panel members Ms Rosie Hicks (ANFF); Dr Susan Anson (EUMINAFab); Dr David Cookson (Australian Synchrotron); Dr Sergi Girona (PRACE); Dr Thomas Schneider (EMBL, EIRO forum); Professor Paul Meredith (Aus – Director, UQ Solar)</p> <p>Discussion Panel discussion on industry linkages across the three concurrent thematic sessions; ANFF/EUMINAFab will bring demonstrated success stories related to each of the thematic areas; Identify translational outcomes across thematic areas; Discussions analyse a suite of case studies to develop a set of criteria for successful industry engagement that is ready to inform program design; Questions of efficiency and effectiveness in the operation of research infrastructure will also be addressed</p>
MORNING TEA 10:30 – 11 am Jaeger Room, Shine Dome	
CONCURRENT THEMATIC SESSIONS SESSION 4	
11 am – 12:30 pm	<p><i>Healthy ageing: next steps for agreed opportunities</i> Chairs Dr Merran Smith (Aus); Dr Jacques Demotes (EU) Speakers Group discussion – Next steps for agreed opportunities Venue Ground floor boardroom, Ian Potter House</p> <p><i>Sustainable cities: social survey data and supporting infrastructure</i> Chairs Professor Prem Chhetri (Aus) Speakers Dr Hans Jorgen Marker – Introducing the DASISH project; Professor Billie Giles-Corti – Using routine collected data to measure – does it predict good health?; Discussion – What are the opportunities for collaboration across Australia and the EU in approaches to social survey data research and supporting infrastructure? Venue Becker Room, Shine Dome</p> <p><i>Clean energy: funding models and challenges – EU learnings and top challenges</i> Chairs Dr Manuel Blanco (coordinator of EU-SOLARIS and Director Australian Solar Thermal Research Initiative); Professor Paul Meredith (Aus – Director, UQ Solar); Ms Sarah Miller (Aus – CSIRO Energy Flagship) Speakers Dr Manuel Blanco (co-ordinator of EU-SOLARIS for CTAER) – The historical context of the PSA [15 minutes]; Dr Loreto Valenzuela Gutiérrez (PSA) – The current PSA model [15 minutes]; Mr Bernhard Fabianek (DG Research & Innovation, EU) – What is the right model? [15 minutes]; Discussion and white board session (mediated by Ms Sarah Miller) – Top five challenges and top five strategies Venue Upstairs meeting room, Ian Potter House</p>
LUNCH 12.30 – 1.30 pm Jaeger Room, Shine Dome	

Time	Activity
CONCURRENT THEMATIC SESSIONS WRAPPING UP AND DRAFTING SUMMARIES	
1:30–2:15	<p><i>Healthy ageing</i></p> <p>Chairs Dr Merran Smith (Aus); Dr Jacques Demotes (EU)</p> <p>Speakers Group discussion – drafting and review of summaries</p> <p>Venue Ground floor boardroom, Ian Potter House</p>
	<p><i>Sustainable cities: intelligent solutions</i></p> <p>Chair Professor Greg Foliente</p> <p>Speakers Dr Suchith Anand, Nottingham University – <i>Introducing THE-ISSUE</i>; Dr Glenn Geer – <i>Integrated transport solutions – an Australian perspective</i>; Discussion – <i>What are the opportunities for collaboration for Australia and the EU in dealing with data, models and infrastructure to support intelligent solutions?</i></p> <p>Venue Becker Room, Shine Dome</p>
	<p><i>Clean energy: the way forward</i></p> <p>Chairs Dr Manuel Blanco (coordinator of EU-SOLARIS and Director Australian Solar Thermal Research Initiative); Professor Paul Meredith (Aus – Director, UQ Solar)</p> <p>Speakers NONE; <i>Discussion and white board session (mediated by Dr Paul Meredith and Dr Manuel Blanco); Identify the top five areas of immediate, medium term and long term EU–AU need and overlap for solar research infrastructure; Identify and summarise the most appropriate sustainable funding models for major solar research infrastructure; Basic principles for a new Aus Solar Research Infrastructure Framework; A listing of potential bilateral relationships as the immediate next step</i></p> <p>Venue Upstairs meeting room, Ian Potter House</p>
AFTERNOON TEA 2.15 – 2.30 pm Jaeger Room, Shine Dome	
CLOSING PLENARY Venue Ian Wark Theatre, Shine Dome	
2 – 2.50 pm	<i>Overall remarks including links to ICR2014 (10 minutes); Professor Octavi Quintana-Trias, Head of Directorate B, European Research Area, Directorate-General for Research and Innovation, European Commission (EC); His Excellency Mr Charalampos Dafaranos, Ambassador, Embassy of Greece</i>
2.50 – 3.45 pm	<i>Workshop wrap-up (60 minutes); Brief introduction by Ms Ditta Zizi as facilitator and introduce representatives from thematic sessions; Three 10-minute statements from each of the three thematic groups including workshop outcomes and next steps; Questions/final comments</i>
3.50 – 3.45 pm	<i>Closing Ms Ditta Zizi, Department of Education</i>
3.45 pm	Close

Head of Australian delegation

Mr Robert Griew



Department of Education

Mr Griew is responsible for the Higher Education, Research and International areas of the Department of Education. He has a career spanning the public, private and not-for-profit sectors. He spent the first 28 years of his career focused on health and community services, including four years as Secretary of the NT Department of Health and Community Services, and senior positions in NSW and Victoria. He spent more than 10 years

managing Commonwealth health and community services, including running the Commonwealth Aged Care and Aboriginal health programs. He has run his own consulting business doing both technical and organisational development work and held senior positions in the community health sector. Mr Griew moved to the education sector in 2008 and, prior to joining the Department as part of the 2013 Machinery of Government changes, has been responsible for labour market strategy, tertiary education and Indigenous employment programs. He has chaired ministerial advisory councils, including most recently the National Senior Officials Committee, which supports tertiary education ministers, and previously the National Public Health Partnership. Past directorships include the National Centre for Vocational Education and Research, the National E-Health Advisory Council, the NSW Legal Aid Commission and Australian Hearing. He has a bachelor's degree in health science and education, a master's degree in public health and will shortly complete a graduate economics degree at ANU.

Head of European delegation

Professor Octavi Quintana-Trias



Professor Quintana-Trias trained as a medical doctor at the University of Barcelona. He joined the Directorate-General for Research and Innovation of the European Commission in 2002, serving first as Director of Health Research for five years and then as Director of Energy (EURATOM) in the same Directorate-General. He is currently Director of the European Research Area.

Before this, Professor Quintana-Trias served for two years as Director of International Affairs in the Spanish Ministry for Health and Consumer Affairs and from 1990–2000 as Deputy Director General of INSALUD, the organisation which is responsible for the management of the healthcare system in Spain. He has also served as an adviser to the Pan American Health Organisation, working on healthcare systems in various Latin American countries (1994–2011), he was Vice-Chair of the European Group of Ethics (1994–2001) and Chair of the Steering Committee on Bioethics of the Council of Europe (1992–1995). Between 1996 and 1998, he was President of the Spanish Society of Quality Assurance on Health Care and Founder of the European Society of Quality Assurance on Health (ESQH). He has also worked as a professor in several universities in Spain, Europe and the US on bioethics and quality assurance and authored a number of papers in Spanish and international journals.



Healthy ageing

Healthy ageing

Dr Miles Apperley



Australian Microscopy and
Microanalysis Research Facility
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Dr Apperley is Chief Operating Officer for the Australian Microscopy and Microanalysis Research Facility (AMMRF). He has a bachelor of metallurgical engineering and a PhD from the University of NSW. For more than 20 years he has worked in the manufacturing and university sectors performing industry based R&D and product development as well as a range of business development and technology management roles. He has experience in industry–university collaborations, has been active in marketing and sales activities of new technologies, and in developing the intellectual property and commercialisation strategy for a subsidiary of a large manufacturing company. As COO of the AMMRF he is responsible for implementing all operating plans and compliance reporting, communications, marketing and business development strategies. Current efforts are focused on building international engagement and benchmarking, and developing strategic plans for the future.

Professor Jacques Demotes



European Clinical Research Infrastructure Network (ECRIN)
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Professor Demotes MD, PhD, MBA, is Professor of cell biology and has a background in clinical neurology and a research curriculum as a basic neuroscientist, and later as the chair of a clinical research centre. Since 2004 he has coordinated the European Clinical Research Infrastructures Network (ECRIN, www.ecrin.org) – the European Strategy Forum on Research Infrastructures (ESFRI) roadmap for multinational clinical trials. He is also an adviser at the biology and health research department at the French Ministry of Higher Education and Research.

Dr Michael Dobbie



Australian Phenomics Network
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Dr Dobbie completed a BAppSc (University of Technology, Sydney, 1984) and a MSc in biochemistry (University of Sydney, 1994) before working in the UK for 12 years, where he gained a PhD in neurochemistry (University College, London, 2001). In the UK he studied cerebral malaria (Institute of Child Health, London), the blood-brain barrier (King's College London) and angiogenesis (Oxford University). Dr Dobbie returned to Australia in 2006 and is currently the Scientific Business Manager at the Australian Phenomics Facility (Australian National University) and CEO of the Australian Phenomics Network. Both the facility and network provide quality infrastructure and expertise to medical researchers to create, characterise and preserve new mouse models of human disease. Dr Dobbie assists medical researchers through promotion of the application of functional genomics and phenomics approaches towards a better understanding of the genetic causes of disease.

Dr Tim Dyke



National Health and Medical Research Council (NHMRC)

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Dr Dyke, Executive Director, Strategic Policy Group, joined NHMRC in 2008. Previous Commonwealth appointments include Team Leader, Veterinary Antibiotics and Vaccines, Principal Scientist and Program Manager, Quality Assurance and Compliance, with the Australian Pesticides and Veterinary Medicines Authority (APVMA). At NHMRC, Tim has had responsibility for the Quality and Regulation Branch, which has oversight of the ethics, embryo licensing and institutional compliance functions, the Corporate Services Branch, Information and Reporting Branch and now the Strategic Policy Group (SPG). The SPG was created to bring together key elements of strategic policy development across NHMRC, including external relations management. Branch functions include interdepartmental representation; supporting clinical trials governance; open access and data sharing; information and research data management; and external relations (including web, media, events). Dr Dyke obtained his veterinary science degree from The University of Sydney in 1982 and holds masters degrees in veterinary science and business administration. He completed his PhD, a fellowship in clinical pharmacology, and postdoctoral work at The Ohio State University. By examination, he is a Diplomate of the American College of Veterinary Clinical Pharmacology and a Fellow of the Australian College of Veterinary Scientists.

Professor Graham Galloway



National Imaging Facility

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Professor Galloway leads the Biomedical Imaging group in the Centre for Advanced Imaging at The University of Queensland (UQ), and is Director of Operations of the National Imaging Facility (NCRIS). He is passionate about collaboration and open access to infrastructure. He is a strong advocate for developing the middle-ware to enable users to utilise the significant investments in eResearch. He has been a lead in proposals for an Australian National Data Service (ANDS) application project and a National eResearch Collaboration Tools and Resources (NeCTAR) virtual laboratory. He has been at the leading edge of technology developments from the first in vivo spectra of human brain, liver and heart, during his time at Oxford, to the recent acquisition of a 7T human scanner at UQ. Professor Galloway instigated UQ's magnetic resonance technology postgraduate teaching program, which teaches the underlying principles and latest applications of magnetic resonance. He is the lead author of a massive open online course (MOOC) for EdX, on biomedical imaging.

Mr Andrew Gilbert



Bioplatforms Australia Ltd

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Mr Gilbert is the General Manager of Bioplatforms Australia (www.bioplatforms.com), overseer of a \$100 million Commonwealth Government research infrastructure investment in the discovery sciences of genomics, proteomics and metabolomics. With 17 investments across Australia, Andrew has an extensive network of contacts from Commonwealth and state governments, along with prominent universities, medical research institutes, agricultural research institutes and commercial entities. In addition to managing the national infrastructure network, Bioplatforms Australia has catalysed the formation of three strategic national scientific collaborations in the broad themes of wheat productivity and quality, environmental surveying, and melanoma biology. Each of these projects is by design multidisciplinary, multi-institutional and contains both discovery implications and pathways to end use. Innovation is inherent in both the model of collaboration and the

environment created to foster excellent science and application to national challenges. Prior to his current endeavours, Andrew was the Commercial Manager for Life Therapeutics and involved in a broad range of activities surrounding the commercialisation of cutting edge biotechnology developments. A particular focus was to ensure market requirements were successfully married with strong science to deliver a product and service that was both needed by end users and of financial benefit to Life Therapeutics.

Dr Stewart Hay

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A/Professor Olivier Salvado



CSIRO

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Professor Salvado received his MSc in electrical engineering from L'Ecole de L'Innovation Technologique (ESIEE) France, and graduated with a PhD in biomedical engineering (medical imaging) from Case Western Reserve University, Cleveland, Ohio, US. Before joining CSIRO in 2007 he was Instructor in Radiology at the University Hospitals of Cleveland where he was conducting research on neuroimaging and atherosclerosis diagnosis using intravascular MRI. Professor Salvado is now leading the CSIRO Biomedical Imaging Group in Brisbane Australia, conducting research on image analysis, especially positron emission tomography (PET) and magnetic resonance imaging (MRI), and supporting large clinical studies. He has more than 40 journal publications totalling more than 1500 citations, is a regular reviewer for journal and grant proposals, is a journal associate editor, and a committee member of several conferences.

Dr Thomas Schneider



European Molecular Biology Laboratory

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Dr Schneider obtained his PhD in physics from the Technical University of Munich and EMBL in 1997 and since then has worked in the development of methods and technologies for structural biology in several institutions including the Max-Planck Institute for Molecular Physiology (Dortmund, Germany), Göttingen University (Germany), and the European Institute of Oncology (Milan, Italy). Since 2007, when he became a group leader at EMBL, he has been leading the construction of beamlines at the new PETRA III synchrotron in Hamburg (Germany). Since 2012, the beamlines, together with adjacent facilities for sample preparation and data processing and evaluation, have been accessible to the international scientific community as user facilities. Dr Schneider has been a member of the EIROforum Working Group on Instrumentation since 2010.

Dr Merran Smith



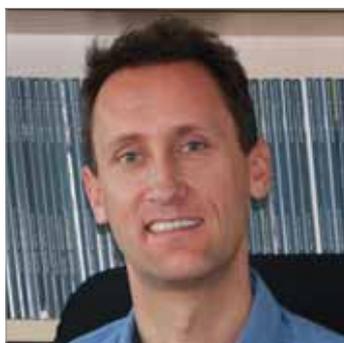
Population Health Research Network

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Dr Smith is the inaugural Chief Executive of Australia's Population Health Research Network (PHRN). PHRN was established in 2009 to build infrastructure linking

population health and related data held by Australian governments. The infrastructure supports provision of linked de-identified data to researchers for approved projects using privacy-preserving models. PHRN has funding from several Australian Government research infrastructure programs, state/territory governments and academic partners. Further information about PHRN can be found at www.phrn.org.au Dr Smith is based in Perth, Western Australia (WA). Prior to joining PHRN, she was a Director in the WA Department of Health. She was responsible for management/development of the department's extensive population data collections for more than 10 years and also made a significant contribution to development of Australia's national health information infrastructure. Dr Smith is committed to improving health outcomes through better use of information.

Professor Oliver Speck



Euro Bioimaging

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Professor Speck is Director of the Department of Biomedical Magnetic Resonance at the Otto-von-Guericke University Magdeburg, Germany. His primary research activities are in high field magnetic resonance imaging. He is also coordinating the national imaging efforts of the German Center for Neurodegenerative Disease (DZNE) and holds an affiliation at the Leibniz Institute for Neurobiology. Since 2008, he has been work package leader – 'Access to Innovative

Technologies – Medical Imaging' of the European Strategy Forum on Research Infrastructures (ESFRI) preparatory phase project Euro-Biolmaging and has recently been appointed as coordinator, medical imaging, for Euro-Biolmaging, the envisioned European infrastructure for biological and medical imaging. He is also Co-PI of the German ultra-high field magnetic resonance imaging initiative (gUFI), that aims to integrate and coordinate all German human high-field imaging efforts to stratify quality assurance procedures and provide access to this infrastructure.

Mr Anton Ussi



European Infrastructure for Translational Medicine (EATRIS)

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Mr Ussi is Head of Operations for EATRIS Coordination and Support. He has a background in engineering and small to medium enterprise administration. He is a specialist in the establishment and execution of strategic public-private and public-public collaborations based on the deployment of high value translational research infrastructure for medicine. Mr Ussi has been co-responsible for the development of several ongoing public private partnerships and spin-out companies, including the €130 million Vrije Universiteit (VU) Medical Imaging Center, Amsterdam, and the Dutch Imaging Hub, a public-private translational initiative with Roche-Genentech and three Dutch university medical centres.



Clean energy

Dr Manuel Blanco



CSIRO Energy Transformed Flagship

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Dr Blanco is the Australian Solar Thermal Research Initiative (ASTRI) Director. He joined CSIRO as the Solar Research Group Leader in January 2013. He has PhDs in both applied physics and industrial engineering. During his career Dr Blanco has made invaluable contributions to the international solar thermal field through his work in a number of key positions including Chair of the Executive Committee of SolarPACES – the International Energy Agency Implementing Agreement on Solar Power and Chemical Energy Systems (ongoing); Director of the Plataforma Solar de Almeria – the largest European concentrated solar thermal power (CSTP) Research Facility; Principal Investigator of the European Union SOLGAS and SIREC projects – two large CSTP demonstration and technology development projects which paved the way to the first commercial CSTP tower systems installed in Spain; Adviser to the President of the Andalusian Energy Agency; Executive Secretary of SolarPACES; Professor and Chair of the Engineering Department of the University of Texas at Brownsville.

Dr Richard Corkish



University of New South Wales

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Dr Corkish graduated with distinction as a communications engineer from the Royal Melbourne Institute of Technology in 1986 then worked with the CSIRO Division of Radiophysics on satellite earth-station antenna design and testing before studying for a PhD under the supervision of Professor Martin Green at the University of New South Wales' Centre for Photovoltaic Devices and Systems. After a brief period working with the Rainbow Power Company in Nimbin he has worked on solar cell theory, applications and education at UNSW. He has been Head of School at the School of Photovoltaic and Renewable Energy Engineering UNSW since 2003 and, since 2013, Centre General Manager of the Australian Centre for Advanced Photovoltaics, which represents the Australian partners in the US–Australia Institute for Advanced Photovoltaics, supported by the Australian Solar Institute and the Australian Renewable Energy Agency.

Mr Bernhard Fabianek



European Commission

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Mr Fabianek joined the European Commission, Brussels, Belgium, in 1996. At the Information Society and Media Directorate-General he worked in the areas of photonic technologies, high-speed networking, GÉANT and e-Infrastructures. His responsibilities included the supervision of industrial research on IPv6, and the coordination of support to the GÉANT communication infrastructure, fostering the establishment of the world-leading European research network and its global partners. The Global Virtual Research Communities concept was developed and implemented under his leadership. He was responsible for the area of High

Performance Computing – the PRACE initiative – facilitating the creation of a pan-European high performance computing infrastructure. He was principal author of the communication to the Council and European Parliament: 'High-performance computing: Europe's place in a global race' (COM(2012) 45). Since 2012 he has been with the Research and Innovation Directorate-General of the European Commission. He is responsible for the relationship between Structural Funds and Research Infrastructures.

Dr Chris Fell



CSIRO Energy Technology

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Dr Fell is a Principal Research Scientist with CSIRO Energy Technology and a Conjoint Lecturer at the University of Newcastle. His 16-year research career includes technology development for both the semiconductor and telecommunications industries and an important contribution to a photovoltaic device that went into commercial production. Since 2006 he has led the PV Team at CSIRO's National Solar Energy Centre, focussing on the design and characterisation of new device architectures for low-cost solar cells. He and his team have constructed a \$2 million facility for fabricating organic and dye-sensitised solar cells, and produced the largest working organic solar devices in Australia at the time. Chris is responsible for steering CSIRO's growing PV characterisation capability, which will shortly include a major facility for outdoor testing of commercial PV modules and Australia's first ISO17025-accredited laboratory for measuring PV cell efficiency.

Mr Craig Froome

Global Change Institute, University of Queensland

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Dr Sergi Girona



Partnership for Advanced Computing in Europe (PRACE)

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Dr Girona has a PhD in computer science from the Technical University of Catalunya. Since 2005 he has been Director of Operations at the Barcelona Supercomputing Center (BSC), responsible for the Mare Nostrum supercomputer and other high performance computing (HPC) infrastructures of the BSC-Centro Nacional de Supercomputación. Since 2010 he has been on the board of directors of PRACE. The mission of PRACE is to enable high impact scientific discovery and engineering research and development across all disciplines to enhance European competitiveness for the benefit of society. PRACE seeks to realise this mission by offering world-class computing and data management resources and services through a peer review process. PRACE also seeks to strengthen the European users of (HPC) in industry through various initiatives. PRACE has a strong interest in improving the energy efficiency of computing systems and reducing their environmental impact. Dr Girona is also the coordinator of the Spanish Supercomputing Network, with a total of eight institutions, and full computing capacity exceeding 15 000 processors. He is also the Spanish representative in the European group of the e-Infrastructure Reflection Group (e-IRG). During this period in the BSC, he has been further involved in various projects and activities, including: Distributed European Infrastructure for Supercomputing Applications, as Executive Committee member; HPC-Europa, as Executive Committee member; PRACE, as Spanish representative; PRACE, as coordinator of peer-review; Coordinator Responsible of the Access Committee to the RES (Spanish Supercomputing Network); Spanish member of European Commission e-Infrastructure Reflection Group; Member of the group running the evaluation of research Infrastructure proposals for the first update of the ESFRI roadmap.

Professor Halim Gurgenci



University of Queensland

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Professor Gurgenci has been involved with mining and energy research in various positions through Australian industry and academia, starting with a QE2 Research fellowship with the University of Queensland in the area of Solar Energy in 1982. His past accolades include a 1986 Australian Design Award; 2003 Commendation by the Queensland Division of the Institution of Engineers; and an Australian Coal Association Research Program (ACARP) Research Excellence Award in 2005. He is currently the Director for the Queensland Geothermal Energy Centre of Excellence at The University of Queensland (www.geothermal.uq.edu.au). This is the largest geothermal energy research centre in Australia and one of the largest in the world working specifically in the area of geothermal and renewable thermal power conversion. Professor Gurgenci is a regular reviewer of the US Geothermal Energy Technology Program. He is a lead researcher in the Australian Solar Thermal Research Initiative, the \$87m national research program announced in early 2013.

Ms Veronica Heard

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Professor Paul Meredith



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Professor Meredith is Interim Director of UQ Solar and Director of the Solar Flagships EIF Research Infrastructure Project. He is also a UQ Vice Chancellor's Research Fellow, Professor of Materials Physics and Co-director of the Centre for Organic Photonics and Electronics. His research interests span advanced materials for optoelectronics, bioelectronics and solar power with a particular focus on next generation photovoltaics. He serves on the Program Management Committee for both the Australian Centre for Advanced Photovoltaics (ACAP) and the Australian Solar Thermal Research Initiative (ASTRI) and also sits on the ASTRI Advisory Board. Professor Meredith is co-founder of several solar start-up companies and served on the Premier of Queensland's Climate Change Council up until 2012. He was the recipient of the Premier's Award in the Premier of Queensland 2013 Sustainability Awards and has published more than 130 international journal papers and is listed as inventor on 26 patents.

Ms Sarah Miller



CSIRO Energy Transformed Flagship

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Ms Miller is a Principal Research Scientist with CSIRO in the solar thermal group and is the Chief Operating Officer for the Australian Solar Thermal Research Initiative (ASTRI). She has a BSc in chemistry and an MSc in chemical engineering and has led major projects in the energy and wastewater industries. She has a wide range of experience leading bench and pilot-scale research, as well as industrial field trials and industry consultation. In 2009, following research she led on characterising solar thermal troughs, Sarah was invited to join IEA-SHC Task 43 developing standards for solar collectors and invited to review the emerging US standards. She led CSIRO's research offering development in the Solar Flagships EIF. In 2012 she ran a Cutting Edge Science Symposium on 'Concentrating solar thermal material science and engineering' and coordinated organisation of the Energy session at the 2nd EU-Australia Research Infrastructure workshop.

Dr Wes Stein



CSIRO Energy Technology

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Wes Stein is Research Program Leader, Solar Power, and Manager of the National Solar Energy Centre at CSIRO. His responsibilities include developing and delivering the next generation of solar thermal power technologies through leadership, strategic research and development, demonstration projects and innovative energy strategies that foster the development of a national and global sustainable energy industry. He has been responsible for initiating and building CSIRO's program and the National Solar Energy Centre to \$40M of research and development projects and a strong team of 30 scientists and engineers. It is the leading group in Australia and a leading group in the world. He is a member of the Australian Solar Institute's Research Advisory Committee, Australia's representative on the International Energy Agency's SolarPACES Executive Committee, lead author for the IPCC Special Report into Renewable Energy, co-author of a study for the World Bank on the global status and opportunities for concentrating solar power, and recently co-edited a book, *Concentrating Solar Power Technology*. He is a member of the UNIDO International Solar Energy Centre for Technology Promotion and Transfer and is a member of the Australian Institution of Engineers. Before joining CSIRO he worked for 19 years in the power industry with Pacific Power.

Dr Loreto Valenzuela



Plataforma Solar de Almería

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Dr Valenzuela earned her PhD in 2007 and has degrees in physics (1994) and electronics engineering (1996). She has been a researcher in concentrating solar thermal systems at CIEMAT-Plataforma Solar de Almería (PSA) (Spain) since 1998. She has been responsible for the medium-temperature group of the Concentrating Solar Systems department since 2010. Dr Valenzuela has participated in 20 European and Spanish projects related to parabolic-trough collectors and thermal-energy storage systems. She has experience in design, modelling and simulation of solar thermal systems; testing procedures; and process control of collectors using thermal oil, pressurised water or steam as heat transfer fluid. She is responsible for collaboration agreements with product developers and engineering companies of the concentrated solar power (CSP) CSP sector. Dr Valenzuela has also been involved in the transnational-access activities of Training and Mobility of Researchers Programme, the Improving Human Potential Programme, and Solar Facilities for the European Research Area projects giving technical and scientific support to European university groups visiting the PSA to do research on parabolic-trough technology. She is co-author of 24 papers in peer-reviewed journals and more than 50 communications to international conferences.

Dr Muriel Watt



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Muriel Watt is Chair of the Australian Photovoltaics Association, Head, Energy Policy and Photovoltaics for renewable energy consulting company IT Power Australia, and a part-time Senior Lecturer in the School of Photovoltaics and Renewable Energy Engineering, University of NSW. She holds the positions of Australian representative on the Executive Committee of the International Energy Agency Photovoltaics Power Systems Programme and is a member of the Australian Enterprise Connect Clean Technology Advisory Committee. Dr Watt has worked in government energy agencies, private companies and universities on energy related matters since 1980. She has maintained a strong focus on renewable energy research, development, technologies, deployment and policies. Her current research focus is on regulatory structures to facilitate renewable energy deployment.

Sustainable cities



Sustainable cities

Dr Suchith Anand



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Dr Anand is chair of the International Cartographic Association (ICA) Commission on Open Source Geospatial Technologies. He is leading open source research at the University of Nottingham. He established the Open Source Geospatial Lab at the University of Nottingham under a memorandum of understanding (MoU) with the Open Source Geospatial Foundation. He is one of the founders of the Open Source GIS (graphic information systems) Summer School initiative and the Geospatial Open Source, Open Standards, Open Data e-learning initiative. He is also working to establish open source geospatial labs/ research centres in key universities worldwide as part of the Open Source Geospatial Foundation-ICA MoU.

Full details at www.nottingham.ac.uk/~lgzwww/contacts/staffPages/SuchithAnand/Suchith%20Anand.htm

Dr Jack Barton



Australian Urban Research Infrastructure Network

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Dr Barton is the Urban Data and e-Research Facilitator

for the Australian Urban Research Infrastructure Network (AURIN). Dr Barton specialises in urban spatial decision support systems and is currently leading the AURIN outreach initiative, running workshops and user advisory meetings to assist in the development of the AURIN portal. He is trained as an architect and progressively moved into the areas of urban design and planning support systems. His PhD was entitled 'A spatial decision support system for the management of public housing' whereby he designed a three-dimensional geospatial system for assisting in the management of built environments and, importantly, the communities that live there. He has managed his own consultancy for more than a decade specialising in 3D geospatial mapping and animation projects – his clients have included City of Sydney, NSW National Parks and Wildlife Service, NSW Department of Housing, The Pan-Asian Olympics, URBIS and SGS Economics and Planning.

Mr Marcus Blake



Australian Bureau of Statistics

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Mr Blake is an Assistant Director within the Geography Section of the Australian Bureau of Statistics (ABS). He is responsible for the management and maintenance of the ABS geospatial systems and data that support the national statistical process. This includes geospatial software, data and solutions, such as address geocoding and boundary design. Mr Blake represents the ABS on the Office of Spatial Policy's Foundation Spatial Data Framework administration boundary working group. In previous roles, he has managed the delivery of geospatial solutions and products for the 2011 Census, which included a large enumeration boundary design and cartographic production process.

As part of the Geography Section executive he has been heavily involved in the creation and maintenance of the Australian Statistical Geography Standard (ASGS).

Professor Lindsay Botten



National Computational Infrastructure

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Professor Botten is an Emeritus Professor at the University of Technology, Sydney, and Professor and Director, National Computational Infrastructure (ANU) – Australia's national research supercomputing centre. He is a graduate of the University of Tasmania in mathematics and physics, and throughout his career has pursued research in theoretical optics, and computational physics and mathematics, leading to more than 170 articles in high-impact journals. He continues to be a chief investigator in the ARC Centre of Excellence for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS), leading the development of semi-analytic and computational methods for photonic devices. He is a Fellow of the Optical Society of America, the Australian Mathematical Society and the Australian Institute of Physics. His active involvement in the development of advanced computing infrastructure in Australia dates back more than two decades, with contributions to the boards of the ac3 consortium in NSW and the former national partnership Australian Partnership for Advanced Computing, lead authorship of numerous ARC infrastructure grants that have built state and national facilities, and his present role as Director, NCI, for the past five years.

Dr Adrian Burton



Australian National Data Service

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Dr Burton is a Director at the Australian National Data Services (ANDS). In this capacity he has a keen interest in national services that enable data publication, data discovery and data citation as well as the human support services that build the capability of researchers and research organisations to take advantage of data infrastructure. Adrian has provided strategic input into several national infrastructure initiatives, including Towards an Australian Research Data Commons, The National eResearch Architecture Taskforce, and the Australian Research Data Infrastructure Committee. Dr Burton is active in building national policy frameworks to unlock the value in the research data outputs of publicly funded research. Before being involved in research infrastructure he taught South Asian linguistics and conducted research at the Australian National University and was responsible for liaison between academic staff and central information and technology services.

Professor Prem Chhetri



RMIT University

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Professor Chhetri is internationally known for research in developing spatially-integrated business solutions. His recent research focused on urban modelling, tourism analysis, emergency management, and application of geographic information systems (GIS) and global positioning systems (GPS) in transport, infrastructure and logistics planning. Professor Chhetri has been a Chief Investigator on seven Category 1 grants, including three ARC grants in the past five years. He is based in the School of Business IT and Logistics and has a strong interest in the development of e-research infrastructure for real-time monitoring of transportation systems.

Dr Massimo Craglia



Infrastructure for Spatial Information in the European Community (INSPIRE)

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Since 2005 Dr Craglia has worked at the Digital Earth and Reference Data Unit, European Commission – Joint Research Centre. The unit is responsible for the technical coordination of the INSPIRE Directive, creating infrastructure for Spatial Information in Europe to support environmental policy. Dr Craglia is responsible for the development of the INSPIRE specifications for Metadata, and for research on the socio-economic assessment of INSPIRE. He coordinates research projects related to the interoperability of multidisciplinary e-infrastructures that contribute to the Global Earth Observation System of Systems. Recent activities have taken Digital Earth as a framework for evolving current e-infrastructures and integrate official data with real time data coming from citizens and sensors. This approach is being applied to develop novel indicators of quality of life in urban areas to include both quantitative data from sensors and qualitative information from the public. For a selection of recent publications see inspire-forum.jrc.ec.europa.eu/pg/pages/view/29954/publications-articles-in-refereed-journals

Dr Alexander Erath



Singapore ETH Centre

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Dr Erath is senior researcher at the National Research Foundation-funded Future Cities Laboratory, where

he manages the research module on mobility and transportation planning. In this role, he led the implementation of the large-scale, agent-based transport demand model MATSim Singapore. He obtained his PhD from ETH Zürich (Swiss Federal Institute of Technology), where he studied the vulnerability of transport infrastructure. His main research interests are multi-agent, activity-based transport demand modelling, the interaction between transport infrastructure and the built environment as well as travel behaviour modelling. In this domain, he was involved in various studies with a focus on stated preference surveys and led a project on long term fuel price elasticity that featured stated adaptation face-to-face interviews.

Professor Greg Foliente



CSIRO

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Dr Foliente is Senior Science Leader at CSIRO, Australia's national science agency, where he develops and applies systems-based approaches to climate mitigation and adaptation, sustainable built environment, and transitions to urban sustainability. He was recently a DAAD (German Academic Exchange Service) Visiting Professor at Technische Universität Braunschweig, and the 2012–2013 Wilhelm Klauditz Fellow at Fraunhofer WKI in Germany. Dr Foliente was a member of the Australian Government's Built Environment Industry Innovation Council, and co-chair of the 2008 World Sustainable Building Conference (SB08 Melbourne). He has received a number of prestigious international awards – including the 2003 James Croes Medal from the American Society of Civil Engineers – and serves as an expert consultant to industry, government and international organisations, including the UN. He has/had appointments to esteemed international scientific committees and overseas research institutions, has an extensive scientific publications record, and has co-supervised PhD students and postdoctoral researchers in Europe, North America, Asia and Australia.

Dr Glenn Geers



National ICT Australia (NICTA)

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Dr Geers is the Technology Director of the Infrastructure, Transport and Logistics business team at NICTA; Australia's Centre of Excellence for Information and Communication Technology research. He is a Conjoint Associate Professor in the School of Computer Science and Engineering at the University of New South Wales; and is a member of the Society of Industrial and Applied Mathematics and the Association for Computing Machinery. Prior to joining NICTA in 2005 Dr Geers worked on biometrics, image processing and distributed systems at CSIRO and in private industry. He is a member of academic, government and industry transport advisory groups both in Australia and overseas.

Dr Sergi Girona

(See Clean Energy)

Professor Billie Giles-Corti



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Professor Giles-Corti is Director of the McCaughey VicHealth Centre for Community Wellbeing, School of Population and Global Health, The University of Melbourne. For two decades, she and a multidisciplinary team of researchers and postgraduate research students have been studying the impact of the built environment on social and health and

well-being outcomes. A leading public health researcher in Australia and recognised internationally for her research on the health impacts of the built form, Professor Giles-Corti has published more than 200 articles and reports. She is an NHMRC Principal Research Fellow, an Honorary Fellow of both the Planning Institute of Australia and the Public Health Association, and in 2008 was a Fulbright Senior Scholar. She currently works on research projects across Australia, in Canada, and the UK, including an evaluation of the impact of relocating low income families into social and affordable housing in the athletes village as part of the London Olympic Legacy.

Dr Hans Jørgen Marker



Data Service Infrastructure for the Social Science and Humanities (DASISH)

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Dr Marker is the director of the Swedish National Data Service. Before that he worked for 25 years for the Danish Data Archive, where he was director for six years. He is the president of the Council of Social Science Data Archives, CESSDA, and the coordinator of the cluster project Data Service Infrastructure for Social Science and the Humanities, DASISH. To begin with he was a historian, and in that capacity he has served as the President of the Association for History and Computing. He is also the initiator of the Danish Demographic Database, which is a resource of transcribed historical personal data, primarily census data from the 18th and 19th centuries.

Professor Peter Newton



Swinburne University of Technology

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Professor Newton is a Research Professor in Sustainable Urbanism at the Swinburne University of Technology in Melbourne where he leads research on sustainable built environments. His research is funded from Australian Research Council Discovery Grants (current project: 'Green shoots? Exploring the genesis and development of a green economy in Australia'), the Australian Housing and Urban Research Institute and the Cooperative Research Centre for Spatial Information (projects on new models for greyfield residential redevelopment in the capital cities of Australia) and the newly established Cooperative Research Centre for Low Carbon Living, where he is Research Leader of the Low Carbon Precincts Program. He chairs the Technical Committee of the Australian Urban Research Information Network. Prior to joining Swinburne in 2007 he held senior research positions in CSIRO as Chief Research Scientist, Deputy Chief and Science Director in the divisions of Manufacturing and Infrastructure Technology and Sustainable Ecosystems. From 2001 to 2006 he was Director of the Sustainability Program within the CRC for Construction Innovation. Professor Newton received his PhD in urban systems analysis from the University of Canterbury and undertook postdoctoral studies at the University of Waterloo. He has subsequently authored or edited more than 20 books on cities and the built environment. His most recent books include: *Urban consumption* (CSIRO Publishing 2011) *Transitions. Pathways towards more sustainable urban development in Australia* (Springer 2008; reprinted 2011) *Technology, design and process innovation in the built environment* (Taylor & Francis 2009) and *Resilient sustainable cities* (Routledge 2013).

Professor Pascal Perez



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Professor Perez is a world leader in participatory modelling of complex systems. He is the co-editor of 'Complex science for a complex world – exploring human ecosystems with agents' (ANU E Press). Before joining the University of Wollongong, he was a Team Leader at CSIRO and an Associate Professor at the

Australian National University. Professor Perez has 20 years experience working in South East Asia, Western Africa, Pacific Island countries and Australia. He is responsible for the management and delivery of all aspects of infrastructure modelling and simulation at the SMART (simulation, modelling, analysis, research, teaching) Infrastructure Facility. As Research Director he is responsible for SMART's academic governance and for establishing strategic scientific partnerships in Australia and beyond.

A/Professor Chris Pettit



Australian Urban Research Infrastructure Network

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Associate Professor Pettit is the Strategic Implementation Coordinator of the Australian Urban Research Infrastructure Network (AURIN), The University of Melbourne. He is Chair of the Victorian Region Surveying & Social Sciences Institute (SSSI) and Chair of the International Society for Photogrammetry and Remote Sensing (ISPRS) working group on geographical visualisation and virtual reality. He has published more than 100 papers in the areas of geographical visualisation, e-research, spatial planning and decision support systems. His current research interests lie in the design of user-centric participatory planning and visualisation tools, which can be applied to a myriad of spatial planning problems focused on managing the built and natural environment including climate change and population pressures.

Professor Bill Randolph

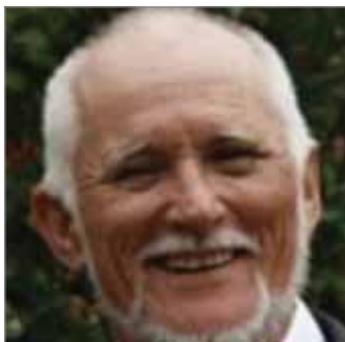


University of New South Wales

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Professor Randolph joined the faculty of the Built Environment (BE) at the University of New South Wales in August 2004, setting up the City Futures Research Centre in 2005. He was Associate Dean Research from 2009 to 2013. Professor Randolph has 35 years' experience as a researcher on housing and urban policy issues in the academic, government, non-government and private sectors. He holds a PhD from the London School of Economics. At UNSW he leads a research team specialising in housing policy, housing markets, high density housing, social inclusion, accessible and healthy built environments, urban renewal, urban sustainability and metropolitan planning policy. Since joining UNSW BE, Professor Randolph has developed City Futures into an internationally recognised research centre with 23 research staff and 11 adjunct staff. In 2012, City Futures, together with the Planning Program at UNSW BE, was rated as Australia's leading urban planning research concentration in the Australian Research Council's Excellence Research Australia assessment exercise.

Professor Bob Stimson FASSA



Australian Urban Infrastructure Network

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Professor Stimson is a Professor in the faculty of Architecture, Building and Planning, in which he is the Director of the Australian Urban Research Infrastructure Network (AURIN) – a \$24 million Commonwealth Government-funded research infrastructure project – at The University of Melbourne, where he is also an Adjunct Professor in Geography. He is also an Emeritus Professor in Geography at The University of Queensland. Professor Stimson is a Fellow of the Academy of the Social Sciences in Australia, a Fellow of the Regional Science Association International (RSAI), a former Fulbright Senior Scholar, and a Life member of the Australian and New Zealand section of RSAI. He is a recipient of the J P Thomson Medal awarded by the Royal Geographical Society (Queensland), the H Kohno Award for Outstanding Service to RSAI, and the

ANZRSAI Distinguished Service Award. Professor Stimson has been conducting research and teaching in regional economic development, urban planning, human spatial behaviour, and spatial decision support systems for almost 50 years. He is an author of 48 books and monographs and more than 350 scientific papers.

Dr Andrew Treloar

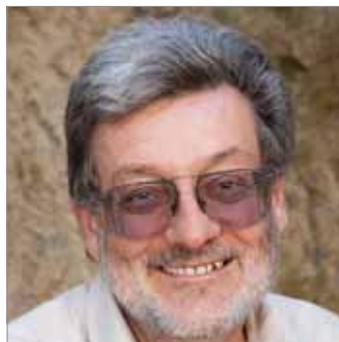


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Dr Treloar is the Director of Technology for the Australian National Data Service (ANDS) (www.ands.org.au), with particular responsibility for demonstrating the value of bringing together data from different disciplines to answer new questions, and international engagement. In 2008 he led the project to establish ANDS. He is also a member of the Research Data Alliance (rd-alliance.org) Technical Advisory Board and Visiting Fellow at the Data Archive and Network Services organisation in the Netherlands (www.dans.knaw.nl). His research interests include data management and scholarly communication. He never seems to be able to make enough time for practising his cello, or reading, but does try to prioritise talking to his chickens and working in his vegetable garden and orchard. Further details at andrew.treloar.net or follow him on Twitter: @atreloar.

Dr Ross Wilkinson



Australian National Data Service

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Dr Wilkinson is the executive director of the Australian National Data Service (ANDS), helping to make data

more valuable for researchers, institutions and the nation. His research career commenced with his PhD in mathematics at Monash University before researching in computer science at La Trobe University, RMIT and CSIRO. Some of his areas of research have been document retrieval effectiveness, structured documents retrieval, and most recently on technologies that support people to interact with their information environments. He has published more than 90 research papers, has served on many program committees and was a program co-chair for both SIGIR'96 and SIGIR'98 (information retrieval workshops). He is a Council member of the Research Data Alliance and is leading the ANDS, helping to make Australia's research data more valuable to enable researchers to more effectively use and re-use research data, wherever it comes from, and in partnership with researchers around the world.

Mr Graeme Wolff



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Mr Wolff commenced as Director of Strategy at the Australian Government Office of Spatial Policy (OSP) in August 2013. OSP is responsible for facilitating spatial data management policy across Australian Government agencies. Mr Wolff joined the Australian Public Service (APS) in 2001. He initially worked with the Department of the Environment and Heritage on heritage policy issues before spending two years with its Environmental Resources Information Network as a Senior Geographic Information Systems Analyst. Other roles he has fulfilled across the APS have included working as Executive Officer to two department heads; contributing to the renewable energy program and policy with the

Australian Centre for Renewable Energy; and working on community partnerships policy within the Environment portfolio. Graeme has an MBA specialising in project management and public sector management; a BSc with specialisations in physical and human geography; and a Grad Cert in urban and regional planning.

Dr Lesley Wyborn



Geoscience Australia

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Dr Wyborn runs the National Geoscience Information Infrastructure Group in Geoscience Australia and is currently in charge of the High Performance Data (HPD)/High Performance Computing (HPC) program. She is a member of the Australian Academy of Science Data in Science Committee, the Executive Committee of the American Geophysical Union Earth and Space Sciences Informatics Section and is on the Research Data Alliance Big Data Working Group. She has more than 40 years experience in scientific data management with a focus on projects that enable real time interoperability and sharing data across organisational, jurisdictional and domain boundaries. She collaborated with CSIRO on the AuScope Grid, the ANDS Spatial Information Services Stack and Australian Spatial Data Commons projects and participated in the International OneGeology project that enabled seamless access to Geoscientific data from 42 countries. Her current focus is on fusing heterogeneous 'big data' collections of geoscience data into multidimensional arrays and point clouds that can readily be assimilated in HPC environments.

Industry links

Dr Susan Anson



EUMINAFab

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Dr Anson is employed at the Karlsruhe Institute of Technology (KIT) in Germany. She coordinates EUMINAFab, the European Research Infrastructure for multimaterial micro and nano-fabrication and characterisation. EUMINAFab is an FP7 project funded under the Capacities specific program. During the four-year funding period EUMINAFab has enabled the consortium of 12 partners to offer integrated open access to users from academic and industrial organisations based in European member and associated states. She is also responsible for the business development of the Karlsruhe Nano Micro Facility (KNMF) located at the KIT and funded by the Helmholtz Association. KNMF offers users from across the globe open, and in the case of public work, free-of-cost access to a broad portfolio of nano- and micro-structuring and characterisation technologies. KNMF is similar to EUMINAFab in that it integrates equipment, processes, researchers and technicians to provide users with complete solutions for specific applications.

Dr David Cookson



Australian Synchrotron

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Dr Cookson obtained his PhD in physics at Monash University prior to spending three years in industry (Kodak) and then five years in Japan taking care of Australian interests at the Photon Factory in Japan. He then headed to the US-arm of the Australian Synchrotron Research Program in Chicago for 10 years. Since 2008 Dr Cookson has been working on home soil as Head of Beamline Science and Operations at the Australian Synchrotron and an Honorary Associate Professor at the University of Melbourne. As part of the science management at the synchrotron, his job is to make sure that the facility pushes – and keeps up with – Australian science and industry.

Ms Rosie Hicks



Australian National Fabrication Facility

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Ms Hicks is Chief Executive Officer of the Australian National Fabrication Facility (ANFF), a company established in 2007 under the Australian Government's National Collaborative Research Infrastructure Strategy. ANFF links 19 universities across Australia and CSIRO to provide researchers with access to state-of-the-art micro- and nano-fabrication facilities. ANFF enables users to process hard materials (metals, semiconductors, composites and ceramics) and soft materials (polymers and polymer-biological moieties) and transform these into structures that have application in sensors, medical devices, nanophotonics and nanoelectronics. Ms Hicks has extensive experience in the provision of research infrastructure and operation of mid-sized facilities gained both in her current role and during her time as Chief Operating Officer of the NANO Major National Research Facility, which she joined in late 2002. Prior to

this, she worked in the UK and Australia for Oxford Instruments plc – a world leader in the supply of scientific instrumentation for use in high-technology research and industry. She has a background in electron microscopy and image analysis.

Dr Carlos Morais Pires



European Commission

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Dr Morais Pires graduated in electrical engineering in 1987, and received his masters and PhD in 1990 and 1996 respectively. He joined the European Commission

in January 1998. He coordinates Scientific Data Infrastructures, addressing the implementation of the European strategy for research data. The area is funded in the European research and innovation programs as part of e-Infrastructures in the pillar 'excellence in science'. Before joining the European Commission he lectured in computer networks and signal processing at the ISCTE (University Institute of Lisbon). He performed his research work to obtain a PhD in 1995, in Torino, Italy with Telecom Italia Research Labs. He gave key contributions to the development of the first European digital TV decoder in the framework of the EUREKA VADIS initiative. He holds a masters degree in electrical engineering, obtained in 1990 with his work on image processing, for which he received in 1991 the Boa Esperança scientific award for young researchers. Dr Morais Pires was born in Mozambique and lived there for his first 10 years. He served in the Portuguese Army as an Artillery Official.

Dr Thomas Schneider

(See Healthy ageing)