

# Responsible Research and Innovation in Practice (RRI) - Practice in the Australian Context

5<sup>th</sup> - 6<sup>th</sup> September, 2018

For those working in Policy, Industry and Academia

Responsible Research and Innovation (RRI) is a term that is frequently used across Europe and is also recognised by many science and technology scholars internationally. However, in Australia, while the term is less prevalent, many elements of the pillars of RRI (ethics, gender and diversity, open access, science education and public engagement) are evident and embedded in the range of research and academic institutions. If RRI is considered critical for research excellence, what are the implications for Australia's research and innovation agenda?

Representatives from the EU Horizon 2020 RRI-Practice project, The Centre for Future Policy Studies, the CSIRO and the Delegation of the European Union to Australia invite you to attend a 2 day workshop to discuss the opportunity for RRI in the Australian context and beyond. Particularly in light of the focus on research impact which is described on the Australian Research Council website as "the contribution that research makes to the economy, society, environment or culture, beyond the contribution to academic research"<sup>1</sup>.

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<sup>1</sup> <http://www.arc.gov.au/research-impact-principles-and-framework>



# Agenda

WEDNESDAY 5<sup>TH</sup> SEPTEMBER: GLOBAL CHANGE INSTITUTE (GCI) BUILDING 20, ST LUCIA CAMPUS, UQ

|       |   |   |
|-------|---|---|
| 8:30  | Welcome and networking opportunity  |   |
| 9:00  | <b><u>Setting the Scene for RRI</u></b> <ul style="list-style-type: none"><li>• <i>Welcome and RRI at UQ</i> – Prof. Tim Dunne PVC (UQ)</li><li>• <i>RRI in the Science Policy Context</i> – Dr Christine Williams, Former Queensland Chief Scientist</li><li>• <i>Responsible research and innovation across borders: challenges and prospects</i> – Prof. Phil Macnaghten, Wageningen University and Research Centre</li><li>• <b>Panel Session – Q &amp; A</b></li></ul>                             | Chair:<br>Professor<br>Peta<br>Ashworth   |
| 10:30 | Morning Tea   |   |
| 11:00 | <b><u>National Case studies of RRI Practice</u></b><br>Case studies from the RRI Practice Project from around the world. <ul style="list-style-type: none"><li>• <i>RRI in the German S&amp;T context</i> –Miltos Ladikas (KIT)</li><li>• <i>Responsible research and innovation and the role of the university: a case study on Wageningen University and Research</i> - Phil Macnaghten (UW)</li><li>• <i>RRI in the Australian context</i> – Peta Ashworth (UQ)</li><li>• <b>Q &amp; A</b></li></ul> | Chair:<br>Professor<br>Alastair<br>McEwan |
| 12:30 | Lunch   |   |
| 13:30 | <b><u>Pillars of RRI – Societal Engagement</u></b> <ul style="list-style-type: none"><li>• <i>Public engagement in S&amp;T in Germany</i> - Julia Hahn (KIT)</li><li>• <i>Doubts and Concerns Living with the Internet of Things</i> - Peter Worthy &amp; Stephen Viller (UQ)</li><li>• <i>Community engagement and participatory monitoring in contentious issues</i> – Kathy Witt (UQ)</li><li>• <b>Q &amp; A</b></li></ul>   | Chair:<br>Professor<br>Anna<br>Littleboy  |
| 15:00 | Afternoon Tea   |   |
| 15:30 | <b><u>RRI and Science and Technology</u></b> <ul style="list-style-type: none"><li>• <i>Global TA and RRI</i> – Miltos Ladikas (KIT)</li><li>• <i>Horizon Scanning Series: Emerging Technologies</i> –Angus Henderson, (ACOLA)</li><li>• <i>Science and Technology policy considerations</i> – Paul Henman (UQ)</li><li>• <b>Q &amp; A</b></li></ul>  | Chair:<br>Professor<br>Karen Hussey       |
| 17:00 | <ul style="list-style-type: none"><li>• Global Scholars PhD Projects Showcase</li></ul>   |   |

**17:30 – 19:30, SUNDOWNER DRINKS – NETWORKING EVENT**

GUEST SPEAKER: JONAS RUPP, EUROPEAN DESK AUSTRALIA



## THURSDAY 6<sup>TH</sup> SEPTEMBER: GLOBAL CHANGE INSTITUTE (GCI), UQ

|       |  |                                |
|-------|--|--------------------------------|
| 8:30  | Welcome and networking opportunity   |                                |
|       | <u>Funding organisations, Impact and RRI</u>   |                                |
| 9:00  | <ul style="list-style-type: none"><li>• <i>RRI in Helmholtz, Germany</i> – Julia Hahn (KIT)</li><li>• <i>Implications of RRI and the Impact Agenda</i> – Joanne Tompkins (ARC)</li><li>• <i>CSIRO Case studies of impact</i> – Dr Tom Keenan (CSIRO)</li></ul>   | Chair: Dr<br>Miltos<br>Ladikas |
|       | <b>Q &amp; A</b>   |                                |
| 10:30 |  | Morning Tea                    |
|       | <u>Pillars of RRI - Open Access/Open Science</u>   |                                |
|       | <ul style="list-style-type: none"><li>• <i>Open Access at UQ</i> – Ambery Thomas (UQ)</li><li>• <i>Open Access in Physics</i> – Tara Roberson (EQUUS)</li></ul>  |                                |
|       | <b>Q &amp; A</b>   | Chair:                         |
| 11:00 | <u>Global Challenges and RRI</u>   | Professor.                     |
|       | <ul style="list-style-type: none"><li>• <i>Research for global sustainability</i> – Tayanah Odonnell, Director (Future Earth Australia)</li><li>• <i>Safeguarding the integrity of industry-funded research: some practical and theoretical lessons from a coal seam gas research centre</i> – Ms. Liz Hardie (UQ)</li></ul> | Phil<br>Macnaghten             |
|       | <b>Q &amp; A</b>   |                                |
| 13:15 |  | Lunch                          |
| 14:00 | Discussion around next steps   |                                |
| 15:00 |  | Workshop End                   |



# Presenters and Chairs



## **Dr Christine Williams, Former Queensland Chief Scientist**

Christine has recently left the Queensland public service after 22 years in a number of very different positions. Most recently she was the Queensland Chief Scientist where she was accountable for science policy, providing strategic guidance across a range of government departments, and was also involved with a number of reviews and enquiries.

As Assistant Director-General, Science, Christine worked in close partnership with other government agencies (state and federal), universities, other research groups and industry, a role she continued to perform and expand upon from the Office of the Queensland Chief Scientist.

She is passionate about the role science can play in improving lives here and abroad; the role citizens scientists can play in collecting information; and the key role that women have in achieving better outcomes in STEM and business.

Prior to joining the Queensland Government, Christine was an academic at Queensland University of Technology and The University of Queensland where she was responsible for teaching statistics and econometrics. She is an economist, with a Doctor of Philosophy from The University of Queensland and a Master of Philosophy from Oxford University.



## **Professor Tim Dunne, University of Queensland**

Tim brings to the role 25 years of experience as researcher, educator and academic leader. His most recent appointment was Executive Dean of the Faculty of Humanities and Social Sciences at The University of Queensland (UQ). Tim was the first Dean of the new Faculty after its inauguration in 2014; under his leadership, the Faculty has established itself as among the very best in Australia and competitive internationally across many disciplinary areas. Prior to his four-year term as Dean, Tim was the Director of UQ's Asia Pacific Centre for the Responsibility to Protect (R2P) as well as Professor of International Relations in the School of Political Science (which has remained his substantive position since he joined UQ in 2010). He previously held discipline and faculty-level leadership roles at the University of Exeter (UK). Tim began his career at Aberystwyth University in Wales, which is famous for having the oldest and one of the best departments of International Relations in the world. His graduate training was completed at the University of Oxford.

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He is internationally recognised for his work on human rights protection and foreign policy-making in a changing world order. He has written and co-edited eleven books, including *Human Rights in World Politics* (1999), *Worlds in Collision* (2002), and *Terror in our Time* (2012). Most recently he has collaborated with colleagues in the School of Political Science and International Studies to produce two significant edited volumes: *The Oxford Handbook of the Responsibility to Protect* (2016) co-edited with Alex Bellamy, and *The Globalization of International Society* (2017) co-edited with Christian Reus-Smit. Tim has extensive experience as a co-editor of leading journals, including the *European Journal of International Relations* (2009-2013) and the *Review of International Studies* (1998-2002). His current research projects include a re-issue of the edited classic *Diplomatic Investigations: Essays in the Theory of International Politics*; the new edition has been put together with Ian Hall at Griffith University and will be published by Oxford University Press in 2018. Additionally, he is working with Richard Devetak, Head of Political Science at UQ, on an innovative and multi-disciplinary project called 'The Rise of the International'. In recognition of his scholarly contribution, Tim was elected Fellow of the Academy of Social Sciences Australia in 2016.





## **Professor Peta Ashworth, University of Queensland**

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Peta joined the University of Queensland in April, 2016. As Chair in Sustainable Energy Futures, Peta has responsibility for the Master of Sustainable Energy. She is also tasked with the role of building energy literacy more broadly and continuing her research around public perceptions of climate and energy technologies.

Peta Ashworth brings over thirty years' experience working in a range of senior management and research roles. Peta is well known for her expertise in the energy field, communication and stakeholder engagement and technology assessment. Peta has been researching public attitudes to climate and energy technologies (wind, CCS, solar PV, geothermal) for the past ten years with a particular focus on CCS.

Peta is also a partner in the [Horizon2020 project Responsible Research and Innovation in Practice \(RRI\)](#). The RRI project brings together a unique group of international experts to understand the barriers and drivers to the successful implementation of RRI in global contexts; to promote reflection on organisational structures and cultures of research conducting and research funding organisations; and to identify best practices to facilitate the uptake of RRI in organisations and research programmes.



## **Ms. Julia Hahn, Karlsruhe Institute of Technology**

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Julia Hahn has been a researcher at the Institute for Technology Assessment and Systems Analysis at the Karlsruhe Institute of Technology since 2011. She has experience working in several EU-funded projects (Responsible Research and Innovation in Practice, Responsible Industry, Parliaments and Civil Society in Technology Assessment), especially focusing on small and large scale stakeholder and citizen engagement. She has a Master in Cultural Sciences from the Leuphana University of Lüneburg, Germany. Her research interests include participatory methods in technology assessment, interdisciplinary and cultural perspectives of sustainability and Responsible Research and Innovation. Recently she has also been focused on conceptual and practical implications of a global technology assessment.



## **Ms. Liz Hardie, University of Queensland**

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Liz is currently a PhD candidate in the Sustainable Minerals Institute. Her research investigates how universities govern the integrity of industry-funded research, particularly during technoscientific controversies. As a manager and social researcher Liz specialises in guiding initiatives that foster cross-sectoral and international collaboration. She has worked in management, policy and research roles in external-facing units of various universities, the Queensland State Government and a legal practice. Liz's academic qualifications include a M.Phil (Social Science) HKUST, MAAPD (Indigenous Policy) ANU, Grad Dip (Economics) UNE, Grad Cert (Chinese Language & Chinese Economics) Fudan and BA Hons (Chinese), UQ.



## **Dr. Angus Henderson, ACOLA**

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Dr Angus Henderson is the Chief Executive Officer of the Australian Council of Learned Academies (ACOLA). Prior to joining ACOLA in 2016, Angus was the Director of Foreground Innovation where he supported start-up technology companies to develop strategic business partnerships, and the Principal Manager of Knowledge Sharing at the Global CCS Institute where he developed and led the Institute's global collaboration initiative. Angus has also held senior Australian Government positions in the fields of innovation, industry, science and research, including Director of Innovation Policy, managing Australia's National Innovation System Review and report; Assistant Director of Biotechnology Development, delivering Australia's Biotechnology Centre of Excellence program; Assistant Director of Global Science Projects developing the new policy foundations and business case for funding Australia's Square Kilometre Array (SKA) radio telescope demonstration.

He was also Country Manager in International Science and Technology Relations to strengthen international bilateral science and technology relationships with the USA, China, Taiwan, Japan, Vietnam and New Zealand. Dr Henderson has completed Post-Doctoral Fellowships at both Harvard Medical School, and the Australian



National University. He holds a PhD in Medical Sciences from the John Curtin School of Medical Research; undergraduate degrees in medical science from the University of Sydney and the University of New South Wales. He also has completed International Masters in Knowledge Management from Det Norske Veritas (DNV) in the Netherlands.



### **Professor Paul Henman, University of Queensland**

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Paul holds degrees in sociology, social policy, computer science and education. His main research interest is the nexus between social policy, administration and digital information technologies.

His research interests include: social policy; welfare state; welfare reform; e-government; the administration of policy; costs of raising children.

Fields of interest: Social policy; electronic government; internet studies; costs of children; welfare state; living standards & wellbeing.



### **Professor Karen Hussey, University of Queensland**

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Karen Hussey is Director of the Centre for Policy Futures located in the Faculty of Humanities and Social Sciences at The University of Queensland, a position she took up in July 2017. Trained as a political scientist and economist, Karen undertakes research in the field of public policy and governance, with a particular interest in public policy relating to sustainable development.

Her recent research has focused on water and energy security, the role of the state in climate change mitigation and adaptation, the links between international trade and environmental regulation, and the peculiarities of public policy in federal and supranational systems.

Karen is a Chief Investigator on the Bushfire and Natural Hazards CRC project 'Policies, Institutions and Governance of Natural Hazards'; Lead Investigator for the ERIN project 'An analysis of the desirability and feasibility of increased energy and electricity integration in South East Asia'; Chief Investigator on the ARC Linkage project 'Trade and investment relations between Australia and the European Union' and she has the pleasure of supervising 9 PhD students. She is a member of the Future Earth Australia Scientific Steering Committee, and on several editorial boards of journals in her field.

Prior to taking up her position at UQ, she was Associate Professor in the Fenner School of Environment and Society at the ANU, where she now holds an Adjunct Professorship. From 2007-2010 Karen was based in Brussels as the ANU Vice Chancellor's Representative in Europe, where she was responsible for developing the ANU's research relationships and profile with European research teams and institutions.



### **Dr. Tom Keenan, CSIRO**

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Tom Keenan has a PhD in Business from QUT. He has over 20 years' experience as both a practitioner and researcher within the field of business management. He has been engaged as an executive leader within, and a consultant to, national for-profit and not-for-profit SMEs, as well as government agencies and private corporations. Tom joined CSIRO's Planning, Performance and Evaluation team as its Senior Advisor in 2016. He has a great depth of understanding and extensive experience in all aspects of planning, performance, and evaluation, as well as in the growing area of research impact assessment.





## **Dr. Miltos Ladikas, Karlsruhe Institute of Technology**

Dr Miltos Ladikas is a senior research fellow at the Centre for Professional Ethics, University of Central Lancashire, UK. He has held research positions at the London School of Economics and the Science Museum in the UK as well as the European Academy for Technology Assessment and the Karlsruhe Institute of Technology in Germany.

His research background covers the areas of technology assessment, public perceptions of science and technology, ethics in science and technology policy, and science and development. He has coordinated a number of international research projects in these areas.

He is currently the coordinator of Global Ethics in Science and Technology Policy, a project funded by FP7, the European Union's Seventh Framework Programme for Research.



## **Professor Anna Littleboy, University of Queensland**

Anna is a Professorial Research Fellow in Minerals and Society for the 21st Century at the Sustainable Minerals Institute. An experienced research manager, she has introduced multidisciplinary and integrative research initiatives both at UQ and previously as Research Director for CSIRO's Resources and Sustainability Programme.

Originally a geochemist, Anna's early career was spent in the lab and on site managing field programmes to characterise environmental risks from reactive contaminant transport. This catalysed an interest in understanding the role that science and values play in environmental decision making and the delivery of sustainability outcomes. Anna has worked on influential initiatives at the interface where science informs policy for a globally connected world. She has

managed large collaborative programmes for Federal and State Governments, Industry and global think-tanks.

Anna is a Fellow of the Minerals Institute, a Graduate of the Australian Institute of Company Directors and a member of the Global Agenda Council on Responsible Minerals Development. She currently sits on the advisory board for METS Ignited and is a recipient of a CSIRO medal for Business Excellence.



## **Professor Phil Macnaghten, Wageningen University and Research Centre**

Phil Macnaghten is a science and technology studies (STS) scholar, with broad interests in the governance of science and technology, responsible innovation, the sociology of the environment, deliberative methodology and narrative analysis. He developed a form of engaged scholarship, combining conceptual work with critical policy development in the domains of rural policy, sustainability policy, technology policy, forestry policy and environmental behaviour change.

Phil has worked broadly on the governance of emerging technology and societal engagement, with a particular focus on agricultural genetic modification (GM) technology, nanotechnology, synthetic biology and climate engineering technologies. He led the Nanotechnology, risk and sustainability: moving public engagement upstream project (ESRC: 20042006), the European DEEPEN (Deepening

Ethical Engagement and Participation in Emerging Nanotechnologies) project (European Commission: 20062009), co-led a project aimed at developing a framework for responsible innovation for the UK research councils (EPSRC and ESRC: 20112012) and the interdisciplinary 'GMFuturos' project (with biologists, anthropologists and theologians), involving on-the-ground research teams in India, Brazil and Mexico, that sought to understand the socio-cultural impacts of GM crops from an ethnographic basis and what this means for future governance.

Phil was Founding Director of the Institute of Hazard, Risk and Resilience (IHRR) (20062008), a Demos Associate (20042008), a Fellow of the Royal Society of Arts (20082012), and has served as a member of EPSRC's Societal Issues Panel (20092011), a member of EPSRC's Strategic Advisory Network (20112014) and chair of the Stagegate panel of the RCUK-funded Stratospheric Particle Injection for Climate Engineering (SPICE) project (20112012).





## **Professor Alistair McEwan, University of Queensland**

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Professor McEwan is a BSc (Hons) graduate of the University of Leeds and was awarded his PhD in Biochemistry from the University of Birmingham. He held a Science and Engineering Research Council NATO Postdoctoral Fellowship at the University of Illinois at Urbana-Champaign and a Royal Society University Research Fellowship at the University of Oxford before moving to a lectureship at the University of East Anglia.

Professor McEwan joined the University of Queensland in 1993 and was promoted to Professor in 2003. He was Head of the School of Chemistry and Molecular Biosciences from 2005-2010. His research spans bacterial physiology and pathogenesis, redox biology and the role of transition metal ions in host-pathogen interactions and research in his laboratory is currently funded by NHMRC

Project grants. Professor McEwan is currently the Chair of the Go8 Deans of Graduate Research and a member of the NHMRC Research Fellowships Peer Review Panel.



## **Ms. Tayanah Odonnell, Future Earth Australia**

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Tayannah is the Director of Future Earth Australia based at the Australian Academy of Science. Her research focusses on the legal and regulatory aspects of climate change adaptation with a particular interest in the legal, political, and cultural aspects of coastal adaptation.

Tayannah is a qualified lawyer and social scientist, and was recently awarded her PhD in legal geography from the Institute of Culture and Society at Western Sydney University.



## **Ms Tara Roberson, ARC Centre of Excellence for Engineered Quantum Systems**

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Tara manages communications and engagement for the Australian Research Council Centre of Excellence for Engineered Quantum Systems. She is also the President of the SEQ Australian Science Communicators branch.

Tara is currently a PhD candidate at Australia's National Centre for Public Awareness of Science at ANU. Her research investigates the use of hype in science communication.



## **Mr. Jonas Rupp, European Union Delegation**

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Jonas Rupp is the Science, Research, Innovation, Technology and Education Advisor at the European Union Delegation to Australia. He has degrees in science and law (BAppSc, LLB, MSc). Over the last 20 years he has worked in government for Australia, New Zealand and Canada; and more recently the 28 Member-States of the European Union. He has also worked for 5 years in Washington DC, partnering with the World Bank / IBRD, other International Institutions, the private sector and NGO community to promote investments in effective management to: (1) launch the US\$1.5 billion Global Partnership for Oceans at The Economist's World Oceans Summit, and 2012 Rio+20 Conference on Sustainable Development; and (2) develop program and project work with international development funds totalling US\$50m to leverage over US\$250m including for 'Ocean Partnerships for Sustainable Fisheries and Biodiversity Conservation – Models for Innovation and Reform'.

In his current EU Delegation role he promotes 'Science Diplomacy' – pointing to the benefits for all in developing fundamental understanding through natural, social, and formal sciences, and further translating through inter-disciplinary, and applied approaches, science to addressing issues of common concern. Investing in science is supporting not only the economy (i.e. jobs, industry, growth), but also human development across all dimensions – and of course, 'science'. The European Union's Horizon 2020 Framework Program for Research and Innovation is investing €80 billion into programs supporting open innovation, open science, and is open to the world. He has engaged with Australia's CSIRO and



GeoScience Australia to showcase EU-AU Partnerships in space industry and science, including an EU-AU Copernicus Workshop in November 2016, demonstrating Australian science capability with the Data Cube; and this has been the thematic focus of two EU Day events. Fast forward to 2018 and we now have significant interest in the "space economy" in Australia; a visit to Australia by the European Commissioner Elzbieta Bienkowska who is responsible for Internal Market, Industry, Entrepreneurship and SMEs (including 'space') the Australian Space Agency; and growing prospects of collaboration of Australian space expertise in Horizon 2020 with a visit by the European Association of Remote Sensing Companies.



### **Dr. Amberyn Thomas, University of Queensland**

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Amberyn Thomas is Associate Director, Scholarly Communication and Repository Services at The University of Queensland Library, with direct responsibility for the provision of services around the institutional repository UQ eSpace, open access, scholarly communication and publishing, research data management and research impact and evaluation services.

Amberyn has been immersed in the research and university sector for 30 years and is an active member of the international scholarly communication sector, currently on the arXiv Member Advisory Board.



### **Professor Joanne Tompkins, ARC**

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Professor Joanne Tompkins joined the ARC in April 2017 as Executive Director for Humanities and Creative Arts. Prior to commencing at the ARC, Professor Tompkins was Associate Dean (Research) in the Faculty of Humanities and Social Sciences at The University of Queensland (UQ) and was previously Head of the School of English, Media Studies and Art History at UQ.

Professor Tompkins' research expertise lies in the humanities and creative arts, particularly in spatial theories and virtual reality; multicultural theories and drama; intercultural performance and feminist performance. Her research has assisted the development of cultural spaces for theatres, galleries and museums through 3D visualisation and modelling of theatre spaces. In 2015, Professor Tompkins was the recipient of an Honorary Doctorate from Queen Mary, University of London. Professor Tompkins also holds a Doctor of Philosophy in Literature from York University, Toronto, Canada (1992) and a Master of Arts from the University of Waterloo, Canada (1986). Professor Tompkins has authored numerous books, and journal and book articles on: spatial theory and virtual reality; post-colonial, multicultural, and intercultural drama and theory; Australian drama and literature and Canadian drama. She has also edited and co-edited several journals, including Theatre Journal and Modern Drama.



### **Mr. Steven Viller, University of Queensland**

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Steven is a researcher and educator in people centred design, particularly applied to the design of social, domestic and ubiquitous computing technologies and understanding people in context. He has over 20 years' experience in HCI/ CSCW research where he has focused on bridging between disciplines and perspectives. Peter has concentrated on qualitative methods, particularly observational fieldwork, contextual interviews, diary studies and field trips, but also increasingly on more 'designerly' approaches such as cultural and technology probes, low fidelity prototypes, rapid prototyping and sketching. Peter has extensive experience in studio-based teaching, particularly focused on physical computing, interaction design, and social & mobile computing.





### **Dr. Katherine Witt, University of Queensland**

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Dr Katherine Witt is a Research Fellow at the University of Queensland's Centre for Coal Seam Gas. As a social scientist, she leads the Social Performance team studying the cumulative social and economic effects of unconventional gas development for local communities, community acceptance and non-technical risk. Katherine is a member of the US National Science Foundation's Energy Impacts Researchers Network as well as co-chair of the Social Impact Assessment chapter of the International Association for Impact Assessment.



### **Mr. Peter Worthy, University of Queensland**

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Peter is currently a PhD student (commenced on 1 April 2015) having recently completed a Master of Interaction Design at UQ. My PhD is an investigation into the Human-values that are implicated when living with Internet of Things technology. There is a lot of attention focused on issues such as maintaining data security and the potential for connected devices to be a point of attack. However, as humans, we have concerns that exist at a deeper and more personal level. Identifying and understanding the human values that are the basis for these concerns will then allow us to develop design patterns that support those human values, resolve concerns, and improve user's engagement with IoT technology.

Beyond this, Peter's interests extend to the application of the Design Thinking process, supporting ageing in place through technology, Design research methods, and teaching through Design Studios. Peter is also currently involved in a few "extra" projects including: designing a 'social' robot to support young children learning a task; designing an Internet of Things platform to support the Australian Digital Technologies High School curriculum; and, a platform to support the capturing of Australian languages through story-telling. Peter's background is fairly diverse. It includes many years as a lawyer both in private practice and in the corporate world. Peter also has a science degree with a particular focus on physiology and functional anatomy

