



OPEN ACCESS AND RESEARCH
CONFERENCE 2013
31 OCTOBER - 1 NOVEMBER

Hosted by



Queensland University of Technology
Brisbane Australia

DISCOVERY • IMPACT • INNOVATION

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Welcome

We are very pleased to welcome you to the Open Access and Research Conference 2013, a celebration of QUT's longstanding commitment to supporting Open Access.

In 2003, QUT became the first university in the world to adopt an institution-wide Open Access policy, mandating the deposit of research papers in its institutional repository, QUT ePrints. Within ten years, QUT ePrints has attracted more than ten million article downloads, making it the highest-ranked university repository in the country.

This event comes at a time when significant developments in this area of research policy are afoot. For example, the Australian Research Council as well as the National Health and Medical Research Council now require that grant funded research papers be made available in the open. Similar imperatives were also recently adopted by national funding bodies in the United Kingdom and the United States. These responses reflect a general transition towards more efficient and seamless methods of scientific communication—a transition ultimately driven by limitations inherited from traditional print-based publishing models.

Now more than ever, research communities are recognising the significant opportunities afforded by a global, open and networked research communication system. As Open Access forms of publishing and archiving continue to gather pace, researchers worldwide can begin to take full advantage of the range of new capabilities made possible by the free and unrestricted exchange of scholarly outputs. The theme *Discovery, Impact and Innovation* focuses on these emerging opportunities and explores how the Open Access paradigm is transforming the academic publishing landscape, enabling researchers to engage with new audiences, and in new ways.

We are very proud to welcome such a distinguished group of Australian and international speakers, and trust you will enjoy their contributions to these discussions.

On behalf of QUT, we wish you a most successful conference.



A handwritten signature in black ink that reads "Peter Coaldrake".

Professor Peter Coaldrake AO
Vice-Chancellor and CEO



A handwritten signature in black ink that reads "Tom Cochrane".

Professor Tom Cochrane
Deputy Vice-Chancellor (Technology, Information and Learning Support)

Thank you to our sponsors

QUT would like to thank the conference sponsors for funding international bursaries and working with us to help build strong and inclusive professional networks. This program has supported practitioners from developing countries to attend the conference here in Brisbane.



figshare has recently announced the launch of **figshare** for Institutions – a simple and cost-effective software solution for academic and higher education establishments to both securely host and make its academic research outputs publicly available.

In line with recent open access initiatives, new funder mandates are requiring institutions to provide self-archiving to make their research outputs publicly available. **figshare** allows researchers to both upload and retrieve research data with simple file curation. These research outputs are then just one click away from being made openly and persistently available if mandated by the institutional funder. This uploaded research is citable and trackable via a Digital Object Identifier (DOI) and detailed reporting metrics are available for the institution, to track the interest in its publicly available research.

figshare for Institutions provides:

- Large amounts of secure, private storage plus unlimited public space.
- Simple, institution-wide management and monitoring of all research outputs for institution staff with subject categorisation per department.
- Access-controlled team sharing and collaborative spaces with the ability to add notes and comments to files.
- An institutional dashboard with detailed metrics on the impact of publicly available data.
- All research outputs can be made citable, visualisable, embeddable and trackable with one click.
- The ability to push research to any internal repository.
- Institution-wide compliance with open data requirements of funding bodies.
- Dedicated support team.

<http://figshare.com>

Pre-conference workshops

Wednesday 30 October 2013

12.00–18.00 **Conference Registration**

13.00–16.00 **Advocacy: What Works**
Facilitated by **Dr Danny Kingsley** | Australian Open Access Support Group
Venue: P506, Level 5, P Block, QUT Gardens Point campus

This workshop is aiming to address the question: 'How do we make Open Access part of the publishing culture (everyday practice) of a researcher/academic?'. The discussion will include some theoretical background on the diffusion of innovations.

Current issues in open access will be explored including: discipline trends towards different open access options, publishing trends, the level of market penetration of open access journals versus use of repositories and a view to the future. Marketing methods like identifying natural points in the research cycle, increasing the appeal of the repository, identifying target audiences and overcoming barriers will be covered.

Participants will be encouraged to bring examples from their own experience, as this will be an interactive discussion on selling the open access message. The questions being addressed will include: 'What methods of demonstrating the benefits of open access are working? Do mandates help or hinder?'

13.00–16.00 **Opening the Door to Partnership**
Facilitated by **Dr Ross Wilkinson** | Australian National Data Service
Venue: P505, Level 5, P Block, QUT Gardens Point campus

The reasons to share data are varied – but a compelling one is to build research partnerships – this is just as relevant to research institutions as it is to a researcher. A research institution can forge strategically important partnerships by creating an internationally significant research data collection, and researchers can build partnerships that directly increase citation rates by sharing a research data set. Data is global and the collaborations which result from open access to an institution's most important data will expose their researchers to global possibilities.

This workshop will invite participants to consider the traits and issues around identifying significant open data collections within their institutions as well as relevant opportunities and issues. By considering some exemplar approaches to open access to data, they will also be encouraged to develop actions and strategies for implementing such collections within their own institutions.

Participants are asked to have an understanding of their institution's research strengths, Open Access policies, strategic goals around data, as well as their most important institutional partners/collaborators prior to the workshop.

13.00–16.00 **Open Access Scholarly Books: Australian Perspectives**
Facilitated by **Dr Lucy Montgomery** | Knowledge Unlatched and QUT
Venue: P504, Level 5, P Block, QUT Gardens Point campus

This three-hour workshop tackles the crucial question of whether globally coordinated, market based approaches to funding open access monographs can support the unique needs of Australian research communities. The workshop takes place in the context of the release in August 2013 of the Book Industry Collaborative Council (BICC) report and especially the recommendations included in the chapter on scholarly book publishing in the humanities and social sciences.

This workshop, with expert speakers from the BICC Committee and from across the scholarly publishing industry, will discuss the policy issues most likely to ensure that Australian scholarly communities and audiences are best served in an era of digital technology and globalisation. Australia must think globally and support developments that enhance the accessibility of publicly-funded research.

Speakers will outline recent developments in scholarly monograph publishing including new Open Access initiatives and developments. Knowledge Unlatched, is one example of an attempt to create an internationally coordinated, market-based route to open access for Humanities, Arts and Social Sciences (HASS) monographs. Knowledge Unlatched, a not-for-profit London-based company is piloting a global library consortium approach to funding open access monographs and released its pilot program in early October with 28 titles from 13 publishers.

The workshop invites discussion and debate from librarians, publishers, researchers and research funders on the role of international coordination and markets in securing a more open future for Australian HASS scholarship.

17.00–19.00 **Welcome Reception**
Venue: Lady Bowen Lawn, QUT Gardens Point campus
Vice-Chancellor's Welcome
Guided tour of **The Cube** departing at 17.45



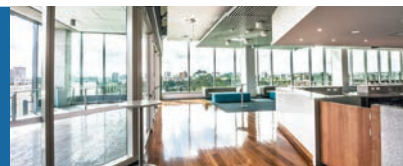
Program at a glance

Venue: P514, Level 5, P Block, QUT Gardens Point campus

Day I: Global and National Open Access Developments

Thursday 31 October 2013

08.00–08.30	Conference Registration
08.45–09.30	Welcome and Opening Address <ul style="list-style-type: none">• Judy Stokker Queensland University of Technology• Professor Aidan Byrne Australian Research Council• Professor Tom Cochrane Queensland University of Technology
09.30–10.30	Session 1 The State of Open Access—United States and Europe <ul style="list-style-type: none">• Developing a Framework for Open Access Policies in the United States Heather Joseph Scholarly Publishing and Academic Resources Coalition, United States• Open Access Developments in Europe Dr Alma Swan Scholarly Publishing and Academic Resources Coalition, Europe
10.30–11.00	Morning Tea
11.00–12.30	Session 2 The State of Open Access—Australia and Asia <ul style="list-style-type: none">• Open Access Developments in Australia Dr Danny Kingsley Australian Open Access Support Group• Open Access Developments in China Dr Xiang Ren University of Southern Queensland• Opening India Professor Shamnad Basheer National University of Juridical Sciences, India
12.30–13.30	Lunch
13.30–15.00	Session 3 Advocacy and Advantage <ul style="list-style-type: none">• OA: A Short History of the Problem and its Solution Professor Stevan Harnad [video presentation] University of Southampton, United Kingdom• Open Access Advocacy in Developing and Transition Countries Iryna Kuchma Electronic Information for Libraries, Ukraine• Academic Panel:<ul style="list-style-type: none">– Associate Professor Marcus Foth Queensland University of Technology– Associate Professor Alex Holcombe University of Sydney– Dr Matthew Todd University of Sydney– Professor Barry Watson Queensland University of Technology
15.00–15.30	Afternoon Tea
15.30–16.30	Session 4 Research Networks and Metrics <ul style="list-style-type: none">• Network Ready Research: Architectures and Instrumentation for Effective Scholarship Dr Cameron Neylon Public Library of Science, United Kingdom• Altmetrics as Indicators of Public Impact Pat Loria Charles Sturt University
18.30–21.00	Conference Dinner Venue: roomthreesixty, Level 10, Y Block, Gardens Point campus



Day 2: Open Data, Innovation and Open Access Publishing

Friday 1 November 2013

08.45–09.30	<p>Session 5 Perspectives of a Vice-Chancellor</p> <ul style="list-style-type: none"> • Professor Bernard Rentier Rector, University of Liège, Belgium
09.30–10.45	<p>Session 6 Open Data</p> <ul style="list-style-type: none"> • Better Value for Institutional Research Data Assets Dr Ross Wilkinson Australian National Data Service • Measuring the Value and Impact of Research Data Curation and Sharing Professor John Houghton Victoria University • Just the Facts Ma'am Marco Fahmi Griffith University
10.45–11.05	Morning Tea
11.05–12.30	<p>Session 7 Open Innovation</p> <ul style="list-style-type: none"> • 'Solving the Problem of Problem Solving': How Open Access will Shift the Demographics of Innovation to Create a More Fair Society and More Resilient Global Economy Professor Richard Jefferson Cambia • The Economics of Open Innovation Professor Adam Jaffe Motu Economic and Public Policy Research, New Zealand
12.30–13.30	Lunch
13.30–15.00	<p>Session 8 Open Access Publishing</p> <ul style="list-style-type: none"> • Knowledge Unlatched Dr Lucy Montgomery Knowledge Unlatched and QUT • Free as in Love: the Humanities and Creative Arts in Open Access Publishing Dr John Byron Book Industry Collaborative Council • Innovation in the Age of Open Access Publishing Dr Caroline Sutton Co-Action Publishing, Sweden
15.00–15.15	<p>Closing Remarks</p> <ul style="list-style-type: none"> • Professor Tom Cochrane Queensland University of Technology
15.15	Afternoon Tea

Day 1: Global and National Open Access Developments

Opening Address



Judy Stokker is the Director, Library Services at the Queensland University of Technology (QUT).

Judy's leadership at QUT extends

beyond the Library to include Chair of the university's Information Management Advisory Group, which reports to the IT Governance Committee. Judy is the inaugural Chair of the Australian Open Access Support Group, an open access advocacy group formed in 2012 by Australian institutions with open access policies. Judy is Deputy President of the Council of Australian University Librarians (CAUL) and was instrumental in establishing CAUL's Institutional Repository Support Service, which was concerned with supporting and improving institutional repositories—the infrastructure that supports open access to research and scholarly publications. Her professional interests include: information management, service improvement, and staff development. She was a faculty member for the Council of Australian University Directors of Information Technology (CAUDIT) Leadership Institute and has been a mentor at the Library's prestigious Aurora Leadership Institute.



Professor Aidan Byrne

is CEO of the Australian Research Council (ARC). He was appointed in July 2012. Professor Byrne is a

welcomed force at the ARC to help deliver its key priorities and deliverables.

Previously the Dean of Science and the Director of the Australian National University (ANU) College of Physical and Mathematical Sciences, Professor Byrne brings with him a wealth of industry knowledge and expertise, particularly in the Physical and Mathematical Sciences and Engineering.

Professor Byrne completed BSc and MSc degrees at the University of Auckland before commencing a PhD degree at the ANU in 1981. Following the completion of the degree in Department of Nuclear Physics, he held positions with the University of Melbourne and spent more than two years in Bonn, Germany, as a von Humboldt fellow. He returned to the ANU in 1989 as a Research Fellow, and

in 1991 commenced a joint appointment between the Department of Physics in the Faculty of Science and the Department of Nuclear Physics, Research School of Physical Sciences and Engineering. He was Head of the Department of Physics from 2003 to 2007.

His research interests involve the use of gamma-rays as probes to determine the structure of heavy nuclei and as probes in the examination of the atomic level structure of materials (especially semiconductors); he has published more than 200 papers.



Professor Tom Cochrane

is the Deputy Vice-Chancellor (Technology, Information and Learning

Support) at the Queensland University of Technology (QUT). The position heads a Division that combines the services of the Libraries, Information Technology Services, eLearning Services, Learning Environments and Technology Services and QUT Printing Services in the one structure.

In his current role, Professor Cochrane's external duties include Director, Australian Digital Alliance; Director, Queensland Cyber Infrastructure Foundation; Board Member, Queensland Museum; Member, Publications Board of CSIRO; Member, Advisory Committee of the Australian Law Reform Commission 2012–2013; Member, Book Industry Collaborative Council Scholarly Book Publishing Expert Reference Group; Member, Advisory Board of Knowledge Unlatched (UK); Member, Board of Enabling Open Scholarship (Europe).

Professor Cochrane is a Director on the Board of bluebox, QUT's technology transfer and commercialisation company, and is co-leader of the Creative Commons project for which QUT is the institutional partner for Australia. This project, together with other open access initiatives locally based at QUT, signals a long-standing commitment to access to knowledge and research output worldwide.

Academic Panel



Associate Professor Marcus Foth

is founder and director of the
Urban Informatics Research Lab,

and Principal Research Fellow in the School of Design, Creative Industries Faculty, at Queensland University of Technology. His research focuses on the relationships between people, place and technology. He leads a cross-disciplinary team that develops practical approaches to complex urban problems. He adopts human-computer interaction and design methodologies to build engagement around emerging issues facing our cities.



Dr Matthew Todd

has been at the School of
Chemistry at the University of
Sydney since 2005. His research

interests include the development of new ways to make molecules, particularly how to make chiral molecules with new catalysts. He is also interested in making metal complexes that do unusual things when they meet biological molecules or metal ions. He has a significant interest in open science, and how it may be used to accelerate research, with particular emphasis on open source discovery of drugs and catalysts. He is Chair of The Synaptic Leap, a non-profit organisation dedicated to open biomedical research. In 2011 he was awarded a New South Wales Scientist of the Year award in the Emerging Research category for his work in open science. He is on the Editorial Boards of PLoS One, Chemistry Central Journal and Chemistry Open.



Associate Professor Alex Holcombe

is an Associate Professor of
the School of Psychology

the University of Sydney and is an Australian Research Council Future Fellow. He has long been frustrated by the perverse nature of the system for publishing his, and everyone else's, scientific results. In an effort to change the system, he contributes to initiatives to increase open access to research publications and results and to reduce publication bias. The latest developments can be seen at <https://twitter.com/ceptional>



Professor Barry Watson

is the Director of QUT's Centre
for Accident Research and

Road Safety – Queensland. He has more than 25 years' experience in road safety research and policy development, arising from positions in government, industry and academia. Professor Watson has conducted research into a wide range of road user safety issues including drink driving, speeding, driver licensing, driver education and traffic law enforcement, and has been involved in the development and delivery of courses in road safety and traffic psychology for both undergraduate and postgraduate students. Professor Watson is also currently the Leader of the Institute of Health and Biomedical Innovation's Injury Prevention and Rehabilitation Domain and National Vice-President of the Australasian College of Road Safety.

Session 4: Research Networks and Metrics

Session Chair: Professor Arun Sharma | Deputy Vice-Chancellor (Research) | Queensland University of Technology

Network Ready Research: Architectures and Instrumentation for Effective Scholarship

DR CAMERON NEYLON



The highest principle of network architecture design is interoperability. If Metcalfe's Law tells us that a network's value can scale as some exponent of the number of connections,

then our job in building networks is to ensure that those connections are as numerous, as operational, and as easy to create as possible. Where we make it easy for anyone to wire in new connections, we maximise the ability of others to contribute to the value of our shared networks. Open access is a core part of this picture, enabling the easy flow of articles from researchers to new potential users—but it is not in and of itself enough. We need to make more of the underlying research process available but also to choose

how to deploy limited resources to enable the widest impact for our research. More than just sharing content, data, materials and process, we must also share the instrumentation of a whole ecosystem and models that let us design the architecture to be effective. What principles can we apply so as to build our research into networks that make the most of the network infrastructure we have around us? Where are the pitfalls? And what are the opportunities? What will it take to configure our work so as to enable 'network ready research'?

About the Speaker

Dr Cameron Neylon is a biophysicist who has always worked in interdisciplinary areas and is an advocate of open research practice and improved data management. He currently works as Advocacy Director at the Public Library of Science (PLOS). Along with his work in structural biology and biophysics, his research and writing focuses on the interface of web technology with science and the successful (and unsuccessful) application of generic and specially designed tools in the academic research environment. He is a

co-author of the Panton Principles for Open Data in Science and writes regularly on the social, technical and policy issues of open research at his blog, *Science in the Open*.

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Day 2: Open Data, Innovation and Open Access Publishing

Session 5: Perspectives of a Vice-Chancellor

Session Chair: JoAnne Sparks | University Librarian | Macquarie University

PROFESSOR BERNARD RENTIER



About the Speaker

Professor Bernard Rentier is Rector of the University of Liège (ULg) in Belgium. He studied Biology and Virology in Liège, where

he obtained his MS in Biology in 1970, his PhD in Virology in 1976 and his DSc in Virology in 1982. After his employment as an assistant (1970–1976) at the ULg's Department of General and Medical Microbiology, he was appointed (1976–1981) at the Infectious Diseases Branch, National Institute for Neurological Diseases and Stroke, NIH, Bethesda MD, USA. From 1981 he was Head of Virology and Immunology Unit, Department of Microbiology, and was appointed Vice-Rector in 1997, in charge of the modernisation and general reform of the university's libraries. He was elected Rector and President in 2005, re-elected in 2009.

During his professional career he has won several prizes and awards in the fields of virology and immunology. He created (1991)

and still chairs BioLiège, a local association of academic and corporate biotechnologists. At ULg, he has launched the GIGA project in medical molecular biology. He also chairs WAVE, a foundation for the study of varicella and zoster in Europe and he is Vice-President of the European Federation of Biotechnology. In the French-speaking Community of Belgium, he chairs the Rectors' Conference (2007–2009) and the National Fund for Scientific Research (FNRS, 2005–2006; 2008–2011). He has been a strong advocate of the open access movement and has concretised it by having his university and the FNRS sign the Berlin Declaration on Open Access, by imposing an institutional repository mandate in his university, and by extending the mandate to the FNRS as a research funding organisation.

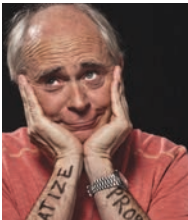
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Session 7: Open Innovation

Session Chair: Professor Tom Cochrane | Deputy Vice-Chancellor (Technology, Information and Learning Support) | Queensland University of Technology

‘Solving the Problem of Problem Solving’: How Open Access will Shift the Demographics of Innovation to Create a More Fair Society and More Resilient Global Economy

PROFESSOR RICHARD JEFFERSON



Scholars and scientists often fancifully envision themselves as the lynchpin of modern science-enabled innovation, and their published works as the inspiration for social

and economic progress. But the vast majority of effort to create and deliver products and services lies in neither the science, nor the research scholarship. Rather it is the navigation of the complex ecosystem of skills, capabilities, capital, legal and business knowledge that comprise the innovation system.

And yet open access to the right kind of knowledge is the key to making this system work more fairly, more efficiently and more inclusively.

The global patent system constitutes the largest non-copyrighted body of technical knowledge in history, comprising many tens

of millions of detailed documents in many languages. Virtually every process or product that creates, or is hoped to create economic value is described in this massive literature. Unfortunately, these very documents are couched in byzantine, almost ecclesiastical language, requiring an expensive ‘clergy’ to interpret. And of course, they can confer legal rights to exclude others from practicing what they preach. Patents and other intellectual property rights thus present both real, potential and perceived constraints to innovation and investment that must be understood and accommodated to progress efficiently.

I will describe our work towards promoting a new meme of ‘Innovation Cartography’, and the creation of an open global cyberinfrastructure—‘The Lens’—that merges worldwide patent knowledge with scholarly, business and legal knowledge, and most importantly, users’ knowledge. This facility will allow more and different people and institutions to aggregate and expose knowledge, make better quality decisions, reduce the risks and improve the engagement in problem solving informed by science and technology. Finally, this facility is a critical imperative for evidence-based policy to guide the development of institutions, and an economy that can cope with the urgent needs of the world.

About the Speaker

Professor Richard Jefferson is a prominent molecular biologist, agricultural scientist and innovation systems strategist, and the leading exponent of ‘Innovation Cartography’. He is

the founder and CEO of Cambia, a Professor of Science, Technology and Law at the Queensland University of Technology and Rogue at National ICT Australia, where he is the Director of The Lens.

Professor Jefferson is a graduate of the University of California’s College of Creative Studies, with a PhD in Molecular Biology from University of Colorado. As a National Institutes of Health postdoc in Cambridge, he conducted the world’s first field release of a biotech crop and created the most widely cited and licensed enabling biotechnology distributed under open source principles. After becoming the first Molecular Biologist for the United Nations Food and Agricultural Organisation, he founded Cambia in 1991, an independent, global non-profit social enterprise to bring efficiency, effectiveness and equity to science-enabled innovation.

Cambia created the BIOS Initiative, the first open patent-based commons for science, and the Patent Lens, a leading global resource for patent transparency. This work has culminated in the current vision of a global digital public good—‘The Lens’—to disrupt and democratise the innovation system.

Profiled in diverse media ranging from *The Economist*, *Newsweek*, *Nature*, *New York Times* to *Red Herring*, he has been named to the Scientific American List of the World’s 50 most influential technologists. Professor Jefferson is an Outstanding Social Entrepreneur of the Schwab Foundation, a frequent Davos panellist and was a long-serving member of the Global Agenda Council on Intellectual Property of the World Economic Forum.

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