

WELCOME

Welcome to the March/April I2S News. In addition to our usual features we also bring to your attention the new td-net toolbox for co-producing knowledge. It contains the following methods for jointly producing knowledge across different academic and non-academic fields of expertise: actor constellation, Delphi, emancipatory boundary critique, most significant change, soft systems methodology, storywall, three types of knowledge tool and toolbox approach. The website can be found at: http://www.naturalsciences.ch/topics/co-producing_knowledge.

Gabriele Bammer and Peter Deane

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FEATURED TOOLS

Action Research and Bias: Lessons from Peacebuilding

Examines the link between relevance and bias. Specifically examines this link for research on peace-building and post-conflict development, arguing that research must be coupled with action to shift power balances. This provides empowerment to help counteract the danger of being involved in the research, especially for those who are not able to leave the situation.

Willems, R. (2013). Practice research in/on peacebuilding and post-conflict development, digital poster #611, from the *First Global Conference on Research Integration and Implementation* in Canberra, Australia, online and at co-conferences in Germany, the Netherlands and Uruguay, 8-11 September, 2013. (Online: <http://i2sconference.digitalposter.com.au/posters-list/611>).

Power and Making Change Happen

Jeremy Heimans compares what he calls “new power” with “old power”. New power examples such as Airbnb, Kickstarter, LinkedIn and the Obama (USA) Presidency campaign, involve the deployment of mass participation and peer coordination, value transparency and networked governance and work like an electric current. Old power examples like Apple, the Nobel Prize and The Economist, are leader-driven, closed and command orientated and are held like a currency by a few. Heimans reminds us that new power is not inherently positive or necessarily successful and ends with the challenge of how to harness new power for what might be called “major public goods problems”.

Heimans, Jeremy (2014). ‘What new power looks like’, TEDSalon, Berlin, Germany: http://www.ted.com/talks/jeremy_heimans_what_new_power_looks_like/ (15 minute video)

Change: Making Social Change More Effective

Zeynep Tufekci addressing the topic “online social change: easy to organize, hard to win” points out “a network of tweets can unleash a global awareness campaign, but the outcomes are not proportional to the size and energy they inspire”. She looks back to the 1960s US civil rights movement and argues for the power of meeting together to create organisations “that can think together and keep going together through differences” so that as well as expressing discontent the movements have “teeth that bite”.

Tufekci, Zeynep (2014). ‘Online social change: easy to organize, hard to win’. TEDGlobal, Rio de Janeiro, Brazil: http://www.ted.com/talks/zeynep_tufekci_how_the_internet_has_made_social_change_easy_to_organize_hard_to_win (16 minute video).

For these and more tools, such as

- Successful Communication: A Toolkit for Researchers and Civil Society Organisations
- Team science (COALESCE project)

See: <http://i2s.anu.edu.au/resources/tools>

FEATURED CASES

Co-producing Knowledge: The 'Embedded Cop' Experiment

Embedding police officers in policing research organisations has many benefits arising from mutual understanding and trust. Four police officers from the Queensland Police Service in Australia were sequentially seconded to CEPS (Australian Research Council Centre of Excellence in Policing and Security) between 2008-2013. The fourth, Jason Saunders, reflects on the process and outcomes, with a number of products which benefitted from the input of the 'embedded cop' listed.

Saunders, J. and Bronitt, S. (2013). The 'Embedded Cop' experiment, digital poster #825, from the *First Global Conference on Research Integration and Implementation* in Canberra, Australia, online and at co-conferences in Germany, the Netherlands and Uruguay, 8-11 September, 2013. (Online: <http://i2sconference.digitalposter.com.au/posters-list/825>).

Co-producing Knowledge: Overcoming the 'Dialogue of the Deaf' in Policing-Research Interactions

Developing close working relationships between policing and academic organisations requires increased understanding of what is important to each organisation and how to build an effective collaboration. Assistant Commissioner Paul Doyle from the Queensland Police Service in Australia reflects on the benefits and challenges of such partnerships and describes a change in recruiting policy as an example of a beneficial outcome from working with CEPS (Australian Research Council Centre of Excellence in Policing and Security).

Bronitt, S. (2013). Dialogue of the deaf: Re-imagining research for policy and practice, digital poster #866, from the *First Global Conference on Research Integration and Implementation* in Canberra, Australia, online and at co-conferences in Germany, the Netherlands and Uruguay, 8-11 September, 2013. (Online: <http://i2sconference.digitalposter.com.au/posters-list/866>).

For these and more cases, such as

- Influencing decision making
- Transdisciplinarity and sustainability: the case of Mistra Urban Futures

See: <http://i2s.anu.edu.au/resources/cases>

FEATURED VIDEOS

Models that Matter – System Dynamics Applications with Impact by George Richardson

This 30 minute video provides an overview of several high profile system dynamics model-based applications. They were selected to show what such models look like, how they emerged (often in multidisciplinary interventions), and how they were used successfully to influence strategy, policy, and decision making. Examples include project management, commodity cycles, urban dynamics, and infectious disease policy.

This video "Models that Matter: System Dynamics Applications with Impact" presented by George Richardson was a plenary talk at the First Global Conference on Research Integration and Implementation held in Canberra, Australia, online and at co-conferences in Germany, the

Netherlands and Uruguay, 8-11 September, 2013. Watch on YouTube at:
<https://youtu.be/y0okQuwWvG8>. Watch on YouTube at: <https://youtu.be/y0okQuwWvG8>.

System Dynamics: An Introduction by George Richardson

This video of an hour-long workshop introduces the core concepts and patterns of thought of the system dynamics approach to complex problems: thinking dynamically, thinking causally, thinking about accumulations, and the key to it all, thinking endogenously. The session builds skills in the mechanics of defining problems dynamically, mapping system structure, and teasing out qualitative insights linking structure and dynamics.

This video "An Introduction to System Dynamics" presented by George Richardson was a workshop at the First Global Conference on Research Integration and Implementation held in Canberra, Australia, online and at co-conferences in Germany, the Netherlands and Uruguay, 8-11 September, 2013. Watch on YouTube at: <https://youtu.be/MSo8kqBLDlw>.

RECENT LINKEDIN GROUP POSTS AND DISCUSSIONS

The LinkedIn Global Network for Research Integration and Implementation has recently featured:

- Lewis Atkinson's blog post on 'Moving from proving to improving: The transition from operational to strategic management': https://www.linkedin.com/pulse/moving-from-proving-improving-transition-operational-lewis-atkinson?qoback=.gmr_4888295.

Other LinkedIn discussion group items have been converted into resources and are provided elsewhere in this News.

FEATURED JOURNAL

Risk Analysis

Risk Analysis "provides a focal point for new developments in the field of risk analysis". It publishes "critical empirical research and commentaries dealing with risk issues". Of particular interest to I2S are publications relevant to risk communication, risk management and decision-making, and risk perception, acceptability, and ethics.

Risk Analysis is the journal of the Society for Risk Analysis.

- Website: <http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291539-6924>
- Impact factor: 1.97 (2013)

Futures Special Issue on Transdisciplinarity 2004-2014

This special edition of Futures takes stock of what has been achieved in transdisciplinary education and research during the last 10 years.

- Website: <http://www.sciencedirect.com/science/journal/00163287/65>

For these and more journals, such as

- Action Learning: Research and Practice
- Science and Public Policy

See: <http://i2s.anu.edu.au/resources/journals>

FEATURED PROFESSIONAL ASSOCIATIONS**International Federation for Systems Research**

The *International Federation for Systems Research* (IFSR) is a "non-profit, scientific and educational organization comprising 42 member organizations (status May 2013) from all continents. The overall purpose of the Federation is to advance cybernetic and systems research and systems applications in order to serve the international systems community". Only organisations can be members of IFSR. IFSR has a journal, newsletter and a book series on systems science and engineering, and the website has links to resources related to the study of systems. IFSR was founded in 1981.

- Website: <http://www.ifsr.org/>

International Academy for Systems and Cybernetic Sciences

The *International Academy for Systems and Cybernetic Sciences* (IASCYS) is open to all "organizations covering or applying systems theories and cybernetics around the world." The Academy has two major missions: academic research and the promotion of education in systems science and cybernetics at all education levels. IASCYS sponsors selected international research meetings and also organises workshops at such meetings. Every two years, with the Bertalanffy Centre for the Study of Systems Science, IASCYS organises a PhD student day at the European Meeting on Cybernetics and Systems Research. Individual academicians are selected competitively and must be members of, and nominated by, one of the associations affiliated with the International Federation for Systems Research. IASCYS was established in 2010 by the *International Federation for Systems Research*.

- Website: <http://www.iascys.org/>

For this and more professional associations & networks, such as

- International Association of Public Participation
- Society for Risk Analysis

See: http://i2s.anu.edu.au/resources/associations_networks

FEATURED CONFERENCES

International Transdisciplinarity Conference: Sustainability and Health - Emerging Topics and New Challenges for Inter- and Transdisciplinary Research

"The two goals of the conference are:

- To explore synergies among the 'thought collectives' of health, sustainability, and transdisciplinarity, while releasing the full potential of this interaction for public health, sustainable development, and societal problem solving in general.
- To bring together the international td-community to critically reflect and advance transdisciplinary research".

The conference will be held in Basel, Switzerland, 8-10 September 2015.

For further details, please see:

- Conference website: <http://www.transdisciplinarity.ch/e/Network/international/2015/index.php>
- Call for papers (deadline 15 May 2015): <http://www.transdisciplinarity.ch/e/Network/international/2015/Conference2015call.php>

European Sociological Association (ESA) Risk and Uncertainty Research (Network 22) Mid-term Conference on Risk, Uncertainty and Transition

"The conference aims to "stimulate sociological and interdisciplinary research and debate into how risk and uncertainty are perceived, constructed, managed and/or neglected by social actors – individuals and organisations – as well as the impact of these responses in society.

The conference will explore " aspects of risk and uncertainty across a broad range of sociological and interdisciplinary perspectives" including the themes of sense-making of risk; professional approaches to risk; risk and emotions; trust; risk management and uncertainty; inequality and risk; risk, resilience and everyday life; and social theories of risk.

The conference will be held in Stuttgart, Germany, 8-10 April 2015.

For further details, please see:

- Conference website: <http://www.riskanduncertainty.net/conferences/2015-esa-rn22-mid-term-conference-risk-uncertainty-and-transition/>

Other Upcoming Conferences

Conferences which have not been listed in previous newsletters are marked [NEW].

Interdisciplinarity, Transdisciplinarity and Action Research Methods

- 15-17 June 2015, Workshop on Investigating Interdisciplinary Practice: Methodological Challenges, Helsinki, Finland (http://www.helsinki.fi/tint/materials/CfP_ID-Workshop_TINT_UHelsinki_June2015_Poster-1.pdf)
- [NEW] 8-10 September 2015, International Transdisciplinarity Conference: Sustainability and Health - Emerging Topics and New Challenges for Inter- and Transdisciplinary Research, Basel, Switzerland (<http://www.transdisciplinarity.ch/e/Network/international/2015/index.php>)

- [NEW] 22-25 October 2015, 37th Association for Interdisciplinary Studies (AIS) Conference: Impact for the Common Good, North Andover, Massachusetts, United States of America (<http://www.merrimack.edu/academics/education/2015-ais-conference/index.php>)
- 4-7 November 2015, Action Learning, Acton Research Association (ALARA) World Congress 2015 - ALARA 9th Action Learning Action Research and 13th Participatory Action Research World Congress: Collaborative and Sustainable Learning for a fairer world: Rhetoric or Reality? Pretoria, South Africa (<http://alarassociation.org/pages/events/alara-world-congress-2015>)
- [NEW] 6-8 November 2015, Collaborative Action Research Network (CARN) Conference 2015: Challenges for change and empowerment, Braga, Portugal (<http://www.carn2015.com/>)

Systems, Modelling and Simulation

- 31 March – April 3 2015, 8th International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP15), Washington DC, United States of America (<http://sbp-conference.org/about/>)
- 12-15 April 2015, Symposium on Theory of Modeling and Simulation (within the 2015 Spring Simulation Multi-conference), Alexandria, Virginia, United States of America (<http://tms-devs.org/>)
- 27-29 April 2015, Systems Engineering and Test and Evaluation Conference (SETE 2015), Canberra, Australia (<http://www.sete2015.com.au/>)
- 10-13 May 2015, International Choice Modelling Conference, Austin, United States of America (<http://www.icmconference.org.uk/index.php/icmc/icmc2015>)
- 17-20 May 2015, 10th Annual Systems of Systems Engineering Conference: SoSE Controls, Modelling and Simulation, San Antonio, Texas, United States of America (<http://sosengineering.org/2015/>)
- 26-29 May 2015, 29th European Conference on Modelling and Simulation (ECMS 2015), Varna, Bulgaria (<http://www.scs-europe.net/conf/ecms2015/aims.html>)
- 4-5 June 2015, Innovations in Collaborative Modeling: Addressing Complex Social and Environmental Problems Through Systems Modeling Techniques, East Lansing, Michigan, United States of America (<http://modeling.outreach.msu.edu/>)
- 12-15 June 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom (<http://www.euro2015.org/>)
- 14-17 June 2015, Joint International Meeting Canadian Operational Research Society and Institute for Operations Research and the Management Sciences, Montreal, Canada (<http://meetings2.informs.org/montreal2015/>)
- 26-29 June 2014, 8th Chaotic Modeling and Simulation International Conference (CHAOS), Paris, France (<http://www.cmsim.org/>)
- [NEW] 28 June - 3 July 2015, 13th International Conference of Sociocybernetics: Sociocybernetics Facing Turbulent Times: Media, Politics and Societies, Zaragoza, Spain (<https://sociocybernetics.wordpress.com/conferences/13th-international-conference-of-sociocybernetics/>)
- 29 June - 3 July 2015, 23rd Conference on User Modeling, Adaptation and Personalization: Contextualizing the World, Dublin, Ireland (<http://umap2015.com/>)
- 19-23 July 2015, 33rd International Conference of the System Dynamics Society, Cambridge, Massachusetts, United States of America (<http://conference.systemdynamics.org/>)
- 3-7 August 2015, 59th Meeting of the International Society for the Systems Sciences: Governing the Anthropocene - the greatest challenge for systems thinking in practice? Berlin, Germany (<http://iss.org/world/node/608>)

- 7-8 September 2015, UK Systems Society 19th Annual Conference – Delivering ‘Goals’? Bristol, United Kingdom (<http://www.ukss.org.uk/sites/ukss.org.uk/files/docs/UKSS%20Conference%202015%20First%20Call.pdf>)
- [NEW] 9-11 September 2015, Nostradamus - Conference on Prediction, Modeling and Analysis of Complex System Dynamics, Paris, France (<http://nostradamus-conference.org/Home.html>)
- 14-18 September 2015, The 11th Conference of the European Social Simulation Association, Groningen, The Netherlands (<http://www.essa.eu.org/>)
- 22-24 September 2015, YoungOR (Operational Research) 19 Biennial Conference, Birmingham, United Kingdom (<http://www.theorsociety.com/Pages/Conferences/YOR19/YOR19.aspx>)
- [NEW] 28 September - 2 October 2015, European Conference on Complex Systems (CCS'15), Tempe, Arizona (<http://www.ccs2015.org/>)
- 20-15 October 2015, Systems Thinking in Action Conference, Washington DC, United States of America (<http://conference.stiatemenos.com/stia2015/>)
- [NEW] 23-25 November 2015, 6th International Conference on Complex Systems Design & Management (CSD&M), Paris, France (<http://www.csdm2015.csdm.fr/-Scientific-Mission-.html>)
- 29 November - 4 December 2015, Modelling and Simulation Society of Australia and New Zealand Congress, Brisbane, Australia (<http://www.mssanz.org.au/modsim2015/index.html>)
- [NEW] 6-9 December 2015, Winter Simulation Conference: Social and Behavioural Simulation, Huntington Beach, United States of America (<http://wintersim.org/2015/>)
- [NEW] 5-8 January 2016, 49th Hawaii International Conference on System Sciences (HICSS 48), Kauai, Hawai'i, United States of America (<http://www.hicss.org/>)

Team Science and Project Management

- 11-13 May 2015, Project Management Institute (PMI) Global Congress 2015, London, United Kingdom (<http://www.pmi.org/Learning/professional-development/Congress-PMI-Global-Congresses/EMEA-2015.aspx>)
- 2-5 June 2015, Science of Team Science 2015 Conference, Bethesda, Maryland, United States of America (<http://www.scienceofteamspace.org/>)
- 23-25 July 2015, 10th Annual INGRoup Conference, Pittsburgh, United States of America (<http://www.ingroup.net/conference.html>)

Uncertainty, Risk and Decision Making

- 8-10 April 2015, European Sociological Association's (ESA) Risk and Uncertainty Research Network 22 - mid-term conference: Risk, Uncertainty and Transition, Stuttgart, Germany (<http://www.sraeurope.org/filehandler.ashx?file=13565>)
- [NEW] 13-17 June 2015, World Meeting of the International Society for Bayesian Analysis, Sardinia, Italy (<http://bayesian.org/content/isba-2016-world-meeting>)
- 15-17 June 2015, 24th Annual Conference of the Society for Risk Analysis Europe, Maastricht, The Netherlands (<http://www.sraeurope.org/#bl3530>)
- 19-23 July 2015, World Congress on Risk: Risk Analysis for Sustainable Innovation, Singapore (<http://www.sra.org/worldcongress2015>)
- 16-18 September 2015, 9th International Conference on Scalable Uncertainty Management (SUM 2015), Quebec, Canada (http://www.fernuni-hagen.de/wbs/sum2015_draft/)

- 15-17 October 2015, 4th International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making (IUKM), Nha Trang, Vietnam (<http://www.jaist.ac.jp/IUKM/IUKM2015/>)
- [NEW] 5-7 November 2015, 1st International Conference on Anticipation, Trento, Italy (http://www.projectanticipation.org/index.php?option=com_content&view=article&id=47&Itemid=546)
- 6-9 December 2015, Society for Risk Analysis Annual Meeting, Washington DC, United States of America (<http://www.sra.org/events/sra-2015-annual-meeting>)

Bridging the Gap from Research to Policy and Practice

- 26-28 May 2015, Global Implementation Conference: Implementation for Impact, Dublin, Ireland (<http://globalimplementation.org/>)
- 25-26 September 2015, 3rd Biennial Society for Implementation Research Collaboration (SIRC): Advancing Efficient Methodologies through Community Partnerships and Team Science, Seattle, Washington, United States of America (<http://www.implementationnetwork.com/conferences/sirc-3rd-biennial-conference>)

Other (including Sustainability Science)

- 27-30 May 2015, 7th International Conference for the Humanities, Arts, Science, and Technology Alliance and Collaboratory (HASTAC): Art and Science of Digital Humanities, East Lansing, United States of America (<http://www.hastac2015.org/>)
- [NEW] 11-12 June 2015, 17th International Futures Conference (World Conference of Futures Research) - Futures Studies Tackling Wicked Problems: Where Futures Research, Education and Action Meet, Turku, Finland (<https://futuresconference2015.wordpress.com/>)
- 11-14 June 2015, 10th International Conference on Interdisciplinary Social Sciences: Interdisciplinary Approaches to Contemporary Social Change, Split, Croatia (<http://thesocialsciences.com/the-conference/>)
- 29 June - July 2 2015, 8th World Environmental Education Congress: Planet and People - How Can They Develop Together? Hobart, Australia (<http://aaee2014.com.au/>)
- 30 June - 3 July 2015, 11th International Conference of the European Society for Ecological Economics: Transformations, Leeds, United Kingdom (<http://www.esee2015.org/>)
- 20-22 July 2015, 12th International Conference of Engaged Scholars and Practitioners - Changing Times: Changing Agenda's, Sydney, Australia (<http://www.engagementaustralia.org.au/conference>)
- 24-26 July 2015, World Future 2015: Make the Future! San Francisco, California, United States of America (<http://www.wfs.org/worldfuture-2015>)
- 12-14 August 2015, 6th Annual VIVO 2015 Conference, Cambridge, Massachusetts, United States of America (<http://vivoconference.org/>)
- 1-2 October 2015, 7th International Conference on Science in Society: Educating Science, Chicago, Illinois, United States of America (<http://science-society.com/the-conference>)
- [NEW] 1-4 October 2015, Asia-Pacific Science, Technology and Society Network 2015 Biennial Conference Disasters, Controversies and Public Engagement, Kaohsiung, Taiwan (<http://apstsn.org/2015-biennial-conference/>)
- [NEW] 14-16 December 2015, Science and Governance theme at the 6th Annual Conference on Earth System Governance: Democracy and Resilience in the Anthropocene, Canberra, Australia (<http://www.earthsystemgovernance.org/canberra2015/>)

ABOUT I2S NEWS

The aim of this newsletter is to provide regular (bi-monthly) updates about new resources added to the Integration and Implementation Sciences website (<http://i2s.anu.edu.au/resources>). These resources are useful for researchers interested in Integration and Implementation Sciences (I2S), which underpins the investigation and tackling of complex real world problems, by:

- Synthesizing knowledge from different disciplines and stakeholders,
- Understanding and managing diverse unknowns, and
- Providing integrated research support for policy and practice change.

In general, each issue features tools (concepts and methods), case studies and/or approaches relevant to I2S - either a useful compilation or one or more examples of note. We also provide information about journals, professional associations & networks, professional development courses and conferences where researchers can learn from others, report their findings and interact with like-minded peers. The newsletter also reports on discussions in the LinkedIn group "Global Network for Research Integration and Implementation": <http://www.linkedin.com/groups/Global-Network-Research-Integration-Implementation-4888295>.

I2S News is archived at: <http://i2s.anu.edu.au/what-i2s/i2s-publications/i2s-news>.

Useful links:

- I2S website: <http://i2s.anu.edu.au>
- I2S on YouTube: <https://www.youtube.com/user/i2sTalks>
- LinkedIn group "Global Network for Research Integration and Implementation": <http://www.linkedin.com/groups/Global-Network-Research-Integration-Implementation-4888295>

To subscribe or unsubscribe to the newsletter go to "I2S News" at <http://i2s.anu.edu.au> or contact Peter Deane at peter.deane@anu.edu.au. To contribute material please contact Peter Deane at peter.deane@anu.edu.au.