

## WELCOME

Welcome to the July/August issue of I2S News, which highlights some of our on-line collection of resources for Integration and Implementation Science (I2S) to support research which:

- Synthesises knowledge from different disciplines and stakeholders,
- Understands and manages diverse unknowns, and
- Provides integrated research support for policy and practice change.

The materials we have gathered are compiled at <http://i2s.anu.edu.au/resources/> and we'd love to hear from you about new additions.

Gabriele Bammer and Peter Deane

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## FEATURED CONCEPTS AND METHODS

### Framework for Analysing Knowledge Co-production

Enengel, Barbara; Muhar, Andreas; Penker, Marianne; Freyer, Bernhard; Drlik, Stephanie; and, Ritter, Florian. (2012). Co-production of Knowledge in Transdisciplinary Doctoral Theses on Landscape Development – An Analysis of Actor Roles and Knowledge Types in Different Research Phases. *Landscape and Urban Planning*, **105**, 1-2: 106-117.

Engel *et al* (2012) developed an analytical framework consisting of the following elements: "(1) typology of actor roles, (2) research phases, (3) objectives and forms of actor integration, and (4) types of knowledge". The framework was used to analyse 'what types of actors contributed what kind of knowledge in which research phase' in four transdisciplinary studies". These elements are further described in the original paper and in a detailed excerpt at: <http://i2s.anu.edu.au/resources/tools/knowledge-synthesis>.

## **SUPPORT Tools for Evidence-Informed Health Policymaking**

SUPPORT Tools for Evidence-Informed Health Policymaking. Online document, McMaster University, Ontario, Canada (general entry portal: <http://www.mcmasterhealthforum.org/index.php/about-us/our-resources>) (viewed: July 2012).

Details: A series of papers "describes a set of tools that have been developed by the SUPporting POLicy relevant Reviews and Trials (SUPPORT) project... Knowing how to find and use research evidence can help policymakers and those who support them to do their jobs better and more efficiently. Each article in this series presents a proposed tool that can be used by those involved in finding and using research evidence to support evidence informed health policymaking. The series addresses four broad areas: 1. Supporting evidence informed policymaking; 2. Identifying needs for research evidence in relation to three steps in policymaking processes, namely problem clarification, options framing, and implementation planning; 3. Finding and assessing both systematic reviews and other types of evidence to inform these steps; and, 4. Going from research evidence to decisions". The information is presented as a set of links to articles (published in 2009 in the on-line journal *Health Research Policy and Systems*) on the topics including:

1. Using research evidence to frame options to address a problem,
2. Assessing the applicability of the findings of a systematic review,
3. Organising and using policy dialogues to support evidence-informed policymaking.

Online document at: [http://www.mcmasterhealthforum.org/docs/mhf-tool\\_2\\_support-tools\\_2010-04-21.pdf](http://www.mcmasterhealthforum.org/docs/mhf-tool_2_support-tools_2010-04-21.pdf) (PDF 2.1 MB). McMaster University, Ontario, Canada (viewed: July 2012).

### **For more methods, such as**

- A brief introduction to Critical Systems Heuristics

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

## **FEATURED CASE REPOSITORY**

### **A Collection of System Dynamics Consulting Projects**

This webpage provides cases from projects using system dynamics in the following areas: economics and finance, education, energy and environment, group model building, health, production management, project management, public policy and management, and strategy. The repository has cases going back to 1990 and new cases continue to be added.

Website: <http://cases.systemdynamics.org/> (viewed: July 2012).

## For more case repositories, such as

- Transdisciplinary Research: Reports from a Course in Sustainable Development Case Studies

See: <http://i2s.anu.edu.au/resources/case-repositories>

## FEATURED JOURNAL

### Small Group Research

Small Group Research focuses on the psychology of small groups; communication within small groups; and the organizational behavior of small groups. It is an explicitly interdisciplinary journal and is not restricted to any particular theoretical or methodological position. The journal showcases theoretical and empirical research and covers a wide range of different group types, including those of interest to I2S such as: work groups; mixed-profession groups; groups in educational settings; and teams.

- Website: <http://sgr.sagepub.com/> (viewed: July 2012).
- Impact factor (2011): 1.345.

## For more journals, such as

- Journal of Research Practice
- Science, Technology and Human Values

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

## FEATURED NETWORK

### Theory of Change

Details: The Theory of Change website provides information about a participatory method for influencing social change, as well as a forum, blog and access to an online application that can be used to build a Theory of Change. By joining the community (which is free) a variety of resources can be accessed. The Theory of Change website is connected to the parent website of ActKnowledge, "a social enterprise that connects social change practice with rigorous study of how and why initiatives work". Theory of Change explains how and why an initiative is expected to work as well as what is needed for change to occur. It is depicted as desired outcomes which are "arranged graphically in a causal framework. The framework provides a working model against which to test hypotheses and assumptions about what actions will best bring about the outcomes in the model".

- Website: <http://www.theoryofchange.org/> (viewed: July 2012).
- ActKnowledge: <http://www.actknowledge.org/> (viewed: July 2012).

## For more professional associations & networks, such as

- Humanities, Arts, Science and Technology Advanced Collaboratory (HASTAC)

See: [http://i2s.anu.edu.au/resources/associations\\_networks](http://i2s.anu.edu.au/resources/associations_networks)

## FEATURED CONFERENCES

### **1<sup>st</sup> Biennial Australian Implementation Conference: Making Change Happen**

This conference is focused on implementation science and directed at researchers, policy-makers, service providers, project managers and practitioners working in the health, education and human services sectors. It seeks to promote the “sharing of knowledge, insights and practical experiences on what can collectively be done to ensure that ‘the change we want is the change we get’ when policies, programs and practices are implemented in real world settings”.

The conference will be held in Melbourne, Australia from October 25-26, 2012.

- Website: [www.ausimplementationconference.net.au](http://www.ausimplementationconference.net.au) (viewed: July 2012).

### **34<sup>th</sup> Annual Association for Integrative Studies (AIS) Conference: Public Policy and the Promise of Interdisciplinary Dialogue**

The 34<sup>th</sup> AIS conference is focused on the future of interdisciplinary studies within an educational context. In order to capitalise on the increased attention of public and university policy makers and practitioners to this topic, the conference aims to expand dialogue around advancing interdisciplinary research and designing and teaching interdisciplinary courses/programs.

The conference will be held at Oakland University in Rochester, Michigan from October 11-14, 2012.

- Website: <http://www.oakland.edu/2012AIS> (viewed: July 2012).

### **Other Upcoming Conferences**

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

#### **General Interdisciplinarity/Transdisciplinarity/Team Science/ Action Research**

- 26-30 August 2012, 32<sup>nd</sup> International Geographical Congress: Down to Earth (session: Crossing Boundaries in Human-Environment-System Research -Exploring Transdisciplinary Approaches), Cologne, Germany (<https://igc2012.org/frontend/index.php>)
- 3-4 September 2012, Action Learning, Action Research Association (ALARA) Australasian Conference: Achieving Sustainable Outcomes through Dialogue and Engagement - The Best from Action Learning and Action Research, Sydney, Australia (<http://www.alara.net.au/public/home>)
- 21-23 September 2012, Philosophy of/as Interdisciplinarity (PIN) Network International Conference - Challenging Philosophy: Interdisciplinary Problems and Disciplinary Philosophy, Tübingen, Germany ([http://pin-net.gatech.edu/international\\_conference\\_2012.php](http://pin-net.gatech.edu/international_conference_2012.php))
- 5-7 October 2012, 5<sup>th</sup> International Conference On Social Sciences (ICSS): Advancing Interdisciplinary and Multidisciplinary Studies on Social Sciences, İzmir, Turkey (<http://www.icssconference.net/>)
- 11-14 October 2012, 34<sup>th</sup> Annual Association for Integrative Studies (AIS) Conference: Public Policy and the Promise of Interdisciplinary Dialogue, Rochester, USA (<http://www.oakland.edu/2012AIS>)

- 23-25 November 2012, Collaborative Action Research Network(CARN) & International Practice Development Collaborative (IPDC) International Conference: Towards Creative Action: Transformations and Collaborations in Practice, Ashford, England (<http://www.canterbury.ac.uk/health/EnglandCentreforPracticeDevelopment/CARNConference2012/home.aspx>)

## Systems and Modelling/Simulation

- [NEW] 27-31 August 2012, 2<sup>nd</sup> International Workshop on Agent-based Modeling for Policy Engineering (AMPLE 2012), Montpellier, France (<http://ample2012.tudelft.nl/>)
- 30-31 August 2012, UK Systems Society 16<sup>th</sup> Annual Conference - Global Crises: Systems Perspectives, Oxford, UK (<http://www.ukss.org.uk/sites/ukss.org.uk/files/docs/UKSS%202012%20Call%20for%20Papers%20v1.pdf>)
- [NEW] 3 September 2012, 5<sup>th</sup> Complex Systems Modelling and Simulation Workshop, Orléans, France (<http://www.cosmos-research.org/workshops/cosmos-workshop-2012/>)
- [NEW] 3-5 September 2012, 3<sup>rd</sup> International Conference on Computer Modelling and Simulation, Brno, Czech Republic (<http://cssim.org/>)
- 3-7 September 2012, European Conference on Complex Systems, Brussels, Belgium (<http://eccs2012.eu/>)
- 4-6 September 2012, Operational Research (OR) 54 Annual Conference, Edinburgh, UK (<http://www.theorsociety.com/Pages/Conferences/OR54/OR54.aspx>)
- 4-7 September 2012, 9<sup>th</sup> Applications of Social Network Analysis (ASNA) Conference, Zurich, Switzerland (<http://www.asna.ch/>)
- 4-7 September 2012, 4<sup>th</sup> World Congress on Social Simulation (WCSS), Taipei, Taiwan (<http://www.aiecon.org/conference/wcss2012/>)
- [NEW] 5-7 September 2012, Nostradamus - Conference on Prediction, Modeling and Analysis of Complex System Dynamics, Ostrava, Czech Republic (<http://nostradamus-conference.org/Home.html>)
- 10-14 September 2012, 8<sup>th</sup> Conference of the European Social Simulation Association, Salzburg, Austria (<http://www.essa2012.org/>)
- 18-20 September 2012, 3<sup>rd</sup> International Conference and 8<sup>th</sup> Science meets Business GameDays Congress plus 7<sup>th</sup> International Conference on E-Learning and Games, Darmstadt, Germany (<http://www.gamedays2012.de/index.php?id=164&L=1>)
- 24-25 September 2012, Complexity Science and Social Science at the Interface to the Real World Conference, Newport Pagnell, UK (<http://www.csrw.ac.uk/events-hosted/complex-interface-conference-2012>)
- [NEW] 26-28 September 2012, 5<sup>th</sup> Workshop on Guided Self-Organization (GSO-2012), Sydney, Australia (<http://prokopenko.net/gso5.html>)
- 14-17 October 2012, Institute of Electrical and Electronics Engineers (IEEE) International Conference on Systems, Man, and Cybernetics: Coupling Humans and Complex Systems in a Cyber World - Today's Principles for Tomorrow's Society, Seoul, Korea (<http://www.smc2012.org/>)
- [NEW] 22-24 October 2012, 26<sup>th</sup> European Simulation and Modelling Conference (ESM 2012), Essen, Germany (<http://www.eurosis.org/cms/?q=node/1872>)
- 12-14 November 2012, 22<sup>nd</sup> Systems Thinking in Action Conference: The Power is in the Connections, Indianapolis, USA (<http://www.systemsthinkinginaction.com/>)

- 18-23 November 2012, 4<sup>th</sup> International Conference on Advances in System Simulation, Lisbon, Portugal (<http://www.aria.org/conferences2012/SIMUL12.html>)
- [NEW] 2-5 December 2012, The 13<sup>th</sup> Asia Pacific Industrial Engineering and Management Systems Conference (APIEMS 2012) and the 15th Asia Pacific Regional Meeting of the International Foundation for Production Research, Phuket, Thailand (<http://www.apiems.net/conf2012/apiems2012.pdf>)
- 9-12 December 2012, Winter Simulation Conference (WSC), Berlin, Germany (<http://wintersim.org/>)
- 12-14 December 2012, Complex Systems Design and Management (CSDM) Conference, Paris, France (<http://www.csdm2012.csdm.fr/>)
- 7-10 January **2013**, 46th Hawaii International Conference on System Sciences (HICSS), Grand Wailea, Hawaii ([http://www.hicss.hawaii.edu/hicss\\_46/apahome46.htm](http://www.hicss.hawaii.edu/hicss_46/apahome46.htm))
- [NEW] 27 January–1 February **2013**, 8<sup>th</sup> International Conference on Systems (ICONS 2013), Seville, Spain (<http://www.aria.org/conferences2013/ICONS13.html>)
- [NEW] April 7-10 **2013**, Symposium on Theory of Modeling and Simulation (TMS' 13), San Diego, USA (<http://www.sce.carleton.ca/faculty/wainer/DEVS13/doku.php>)
- 1-6 December **2013**, MODSIM2013: International Congress on Modelling and Simulation: Adapting to Change - The Multiple Roles of Modelling, Adelaide, Australia (<http://www.mssanz.org.au/modsim2013/index.html>)

## Uncertainty and Risk

- [NEW] 14-15 August 2012, 2nd International Conference on Uncertainty Reasoning and Knowledge Engineering (URKE 2012), Jakarta, Indonesia (<http://www.iamsie.org/urke/>)
- [NEW] 17-19 September 2012, 6th International Conference on Scalable Uncertainty Management (SUM 2012), Marburg, Germany (<http://www.mathematik.uni-marburg.de/~sum2012/>)
- [NEW] 3-5 October 2012, The Communication of Certainty and Uncertainty: Linguistic, Psychological, Philosophical Aspects, Macerata, Italy (<http://www.unimc.it/cuc>)
- [NEW] 16-18 November 2012, 3rd Asia-Pacific Foresight Conference (APFC 2012), Perth, Australia (<http://asiapacificforesightconference.com/>)
- [NEW] 2-5 December 2012, 3rd International Conference on Uncertainty Theory, Phuket, Thailand (<http://apiems2012.org/img/ICUT2012.pdf>; in conjunction with APIEMS2012-<http://www.apiems.net/conf2012/apiems2012.pdf>)
- [NEW] 6-7 December 2012, International Conference on Uncertainty Modeling and Decision Making, Penang, Malaysia (<http://www.waset.org/conferences/2012/penang/icumdm/>)
- [NEW] 6-8 December 2012, MutaMorphosis: Tribute to Uncertainty, Prague, Czech Republic (<http://mutamorphosis.org/2012/>)
- 9-12 December 2012, Society for Risk Analysis (SRA) Annual Meeting, San Francisco, USA ([http://www.sra.org/events\\_2012\\_meeting.php](http://www.sra.org/events_2012_meeting.php))
- [NEW] 10-12 May **2013**, International Symposium on Integrated Uncertainties in Knowledge Modelling and Decision Making, Beijing, China (<http://icml.buaa.edu.cn/IUKM2013/>)

## Bridging the Research-Policy/Practice Gap

- [NEW] 20-22 August 2012, 3<sup>rd</sup> International Conference On Research for Development (ICRD 2012): Research for Global Transformation, Bern, Switzerland (<http://www.icrd.ch/>)



- [NEW] 25-26 October 2012, 1<sup>st</sup> Biennial Australian Implementation Conference: Making Change Happen, Melbourne, Australia (<http://www.ausimplementationconference.net.au/>)
- [NEW] 7-10 January and 4-7 February **2013**, 'Science Meets Practice' Winter School of the Competence Center Environment and Sustainability of the ETH Domain (CCES), Propstei Wislikofen, Switzerland ([http://www.cces.ethz.ch/winterschool/coming\\_winter\\_school](http://www.cces.ethz.ch/winterschool/coming_winter_school))

## Other

- 23-25 August 2012, 2<sup>nd</sup> Australian Discourse, Power, Resistance (DPR) Conference and Association for Qualitative Research Australia (AQR) Conference: 'Embodying Good Research - What Counts and Who Decides?' Darwin, Australia (<http://www.aqr.org.au/conference-2012.html>)
- 29-31 August 2012, 3<sup>rd</sup> International Conference on Sustainability Transitions: Navigating Theories and Challenging Realities, Copenhagen, Denmark (<http://www.ist2012.dk/index.php/IST/IST2012>)
- 27-30 September 2012, 26<sup>th</sup> Annual Conference of the Society for Literature, Science, and the Arts (SLSA), Milwaukee, USA (<http://litsciarts.org/index.html>)
- [NEW] 4 October 2012, Workshop on Creative Design for Interdisciplinary Projects in Cultural Heritage, Innsbruck, Austria (<http://homes.di.unimi.it/cslab/cdch/>; within the IEEE Symposium on Visual Languages and Human-Centric Computing - <http://vlhcc2012.di.unisa.it/submitting/workshops/>)
- 17-20 October 2012, Annual Meeting of the Society for Social Studies of Science (4S): Design and displacement – Social Studies of Science and Technology, Frederiksberg, Denmark (<http://www.4sonline.org/meeting>)
- 22-28 October 2012, Research, Technology and Development (RTD) Evaluation Topical Interest Group (TIG) Workshop (general theme: Complex Research Networks) at the 26<sup>th</sup> Annual Conference of the American Evaluation Association: Evaluation in Complex Ecologies Relationships, Responsibilities, Relevance, Minneapolis, USA (RTD TIG home: <http://comm.eval.org/ResearchTechnologyandDevelopmentEval/Home/>) (Conference home: <http://www.eval.org/eval2012/default.asp>)
- 24-26 October 2012, Environment Institute of Australia and New Zealand (EIANZ) Annual Conference, Sydney, Australia (<http://www.eianz.org/eventsplus/category/environment-institute-annual-conference>)
- 26-31 October 2012, 75<sup>th</sup> Annual Meeting of the American Society for Information Science and Technology: Information, Interaction, Innovation - Celebrating the Past, Constructing the Present, and Creating the Future, Baltimore, USA (<http://www.asis.org/asist2012/>)
- 1-4 November 2012, 10<sup>th</sup> International Conference on Transformative Learning - A Future for Earth: Re-Imagining Learning for a Transforming World, San Francisco, USA (<http://meridianuniversity.edu/index.php/about-the-conference>)
- 17-19 November 2012, 4<sup>th</sup> International Conference on Science in Society, Berkeley, California, USA (<http://science-society.com/conference-2012/>)
- 5-7 December 2012, 26<sup>th</sup> Annual Australian and New Zealand Academy of Management Conference: Managing for Volatility and Stability, Perth, Australia (<http://www.anzamconference.org/default.asp>)
- 13-14 January **2013**, 9<sup>th</sup> International Conference on Technology, Knowledge, and Society: Organize, Challenge, Re-Imagine - New Media and Social Movement, Vancouver, Canada

(<http://techandsoc.com/2012/02/02/ninth-international-conference-on-technology-knowledge-and-society/>)

- 5-8 February **2013**, XIX International Conference of the Society for Human Ecology jointly with IV International Conference on Sustainability Science in Asia - Decisions that Work: Linking Sustainability, Environmental Responsibility and Human Well-being, Canberra, Australia (<http://societyforhumanecology.org/she-xix-2013-canberra-australia/>)
- 9-14 June **2013**, 7<sup>th</sup> World Environmental Education Congress: The Rural-Urban Relationship, Marrakech, Morocco (<http://www.weec2013.org/>)
- **[NEW]** 1-3 July **2013**, 19<sup>th</sup> Annual International Sustainable Development Research Conference (ISDRC19): Just Transitions, Stellenbosch, South Africa (<http://isdrs.org/conferences/19th-conference-2013/>)

## ABOUT I2S NEWS

The aim of this newsletter is to provide regular (bi-monthly) updates about resources 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.

Each issue features concepts, methods and case studies relevant to I2S – either a useful compilation or a single example of note. We also provide information about journals, professional associations & networks, courses and conferences where researchers can learn from others, report their methodological findings and interact with like-minded peers.

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

To subscribe or unsubscribe to the newsletter go to “I2S Updates” at <http://i2s.anu.edu.au> or contact Peter Deane at [peter.deane@anu.edu.au](mailto:peter.deane@anu.edu.au).

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