

WELCOME

Welcome to the May-June 2012 Newsletter. Our purpose is to showcase resources useful for Integration and Implementation Sciences, which has significant overlaps with inter- and trans-disciplinarity, systems thinking and complexity science, postnormal science, integrated assessment, team science, sustainability science and action research. Our aim is to be relevant to all kinds of subject areas, such as environment, population health, security, education, and international development.

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

CONTENTS

Featured Methods

- Collaboration Success Wizard
- ADOPT: A Tool for Exploring How Farmers Take Up Innovations

Featured Case Repository

- Transdisciplinarity: Applying Health Social Science in the Developing World

Featured Journal

- Science Communication: Linking Theory and Practice

Featured Network

- Australian Research Alliance for Children and Youth (ARACY) Knowledge Brokering Network (KBN)

Featured Conferences

- American Society for Cybernetics (ASC) and Bateson Idea Group (BIG) Joint Conference
- Complexity Science and Social Science at the Interface to the Real World Conference
- Other up-coming conferences

About I2S News

- How to contribute, subscribe and un-subscribe

FEATURED METHODS

Collaboration Success Wizard

Details: "The Collaboration Success Wizard is an on-line diagnostic survey for geographically distributed collaborations. The survey probes factors that may strengthen or weaken the collaboration. The Wizard provides both personal and project-level reports to help build successful and productive collaborative projects."

The survey tool is only available on application, but can be used for past, present and future collaborations. The survey is run by the 'Science of Collaboratories' project and draws on Olson, G.M., Zimmerman, A., & Bos, N. (2008). *Scientific Collaboration on the Internet*. MIT Press: Cambridge, USA. The 'Science of Collaboratories' project uses the data submitted as part of ongoing research into collaborations. The on-line application form can be found at:

<http://hana.ics.uci.edu/wizard/form/contact.php> (viewed May 2012).

Website: <http://hana.ics.uci.edu/wizard/index.php> (viewed May 2012).

ADOPT: a tool for exploring how farmers take up innovations

Details: ADOPT (Adoption and Diffusion Outcome Prediction Tool) is a Microsoft Excel-based tool that has been designed for non-contentious mainstream agricultural innovations in developed countries. The framework behind it may also be useful for others interested in implementation, as it "uses expertise from multiple disciplines to make the knowledge surrounding the adoption of innovations more available, understandable and applicable to researchers, extension agents and research managers." [It] "evaluates and predicts the likely level of adoption and diffusion of specific agricultural innovations with a particular target population in mind."

Website at: <http://www.csiro.au/Organisation-Structure/Flagships/Sustainable-Agriculture-Flagship/ADOPT> (viewed May 2012).

For more methods, such as

- A taxonomy of unknowns

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

FEATURED CASE REPOSITORY

Transdisciplinarity: Applying Health Social Science in the Developing World

Higginbotham, N., Briceno-Leon, R., and Johnson, N. (2001). *Applying Health Social Science: Best Practice in the Developing World*. Zed Books: London, UK.

Applying Health Social Science "...synthesizes diverse fields of knowledge in order to understand and solve complex health problems. This volume presents 10 case studies which reveal some of the best practice in health social science in developing countries. Each study addresses the critical question of how social and behavioral science approaches can make a difference in improving significant health

problems. Examples drawn from Africa, Latin America, Asia, and the Pacific look at problems such as AIDS, people's reliance on traditional healers, STDs, smoking, heart disease, and psychological stress.

For more case repositories, such as

- Transdisciplinary Case Studies from the ETH-NSSI

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

FEATURED JOURNAL

Science Communication: Linking Theory and Practice

"Science Communication addresses theoretical and pragmatic questions central to some of today's most vigorous political and social debates. [It] is an international, interdisciplinary social science journal that examines the nature of expertise, the diffusion of knowledge, and the communication of science and technology among professionals and to the public". The science covered includes the physical, natural, social, engineering and medical sciences. [The journal aims to cross] "national, cultural, and economic boundaries on issues such as health care policy, educational reform, international development, and environmental risk".

- Website: <http://www.sagepub.com/journals/Journal200892?siteId=sage-us&prodTypes=Journals&q=science+communication&fs=1> (viewed: May 2012).
- Impact factor (2010): 1.579.

For more journals, such as

- Ecological Economics
- Research Policy

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

FEATURED NETWORK

Australian Research Alliance for Children and Youth (ARACY) Knowledge Brokering Network (KBN)

Details: The ARACY "Knowledge Brokering Network connects people interested in the topic of, or participating in, knowledge brokering... Knowledge brokering refers to the process through which knowledge is acquired by, shared between, and used by researchers, policy makers and practitioners... The KBN has started a LinkedIn Group to enable professional discussion and collaboration on issues relating to knowledge brokering and implementation." Resources from knowledge brokering activities undertaken by ARACY are also available.

- Website: http://www.aracy.org.au/index.cfm?pageName=knowledge_brokering_network (viewed May 2012).
- To join the network:
http://www.aracy.org.au/index.cfm?pageName=knowledge_brokering_app

For more professional associations & networks, such as

- Evidence-Based Policy in Development Network (ebpdn)

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

FEATURED CONFERENCES

American Society for Cybernetics (ASC) and Bateson Idea Group (BIG) Joint Conference

“The American Society for Cybernetics (ASC) and Bateson Idea Group (BIG) [have] come together to hold a conference on the relations among ideas as seen from multiple perspectives. We come from many disciplines but have common roots including cybernetics, circularity, reflexivity, language, culture and systems. For many of us these roots are enmeshed with biology, information, pattern, design, art, aesthetics, ethics and more. In a world rife with factionalism and disenchantment, we will engage in conversations to integrate disciplines of knowing while taking into account our histories and considering our futures. We will regard both the parts and the whole that arises from the relations between the parts — and thus becomes the context for all the parts. We are concerned with the world that arises from how we live our ideas. ASC and BIG have common interests in dynamic systems of thought, wisdom and learning”. Thematically, the conference will focus on exploring notions of paradigm; recursion and praxis.

The conference will be held from the 9-13 July 2012 at Asilomar, California, USA.

- Website: <http://asc-cybernetics.org/2012/> (viewed May 2012).

Complexity Science and Social Science at the Interface to the Real World Conference

“Coping with the global-scale challenges of financial instability, food security, climate change, sustainability, demographic change and migration, pervasive web technology, transnational governance and security, among others, will involve dealing with large-scale complex systems made up of many parts interacting and adapting in sometimes subtle ways. People are critically important components of all of these systems, which makes studying such systems a topic for social science as well as for natural science and engineering. However, the issues transcend disciplinary boundaries and making progress will require a significant interdisciplinary effort. Much of the research that is required to address these issues is taking place at a new interface, where collaboration between economists, demographers, sociologists, etc., is supported and catalysed by tools and concepts from the physical sciences, mathematics, computer science and engineering. In the same way that research at the life and physical sciences interface has revolutionised biology and medicine since the turn of the century, research at the social sciences interface has the potential to transform our ability to answer questions about social, socio-economic, socio-ecological and socio-technological systems. [This] conference is intended to build and strengthen links within the academic community, with the aim of developing the field of Complexity Science and its capacity to address 'real world' challenge. [The conference will cover] work that straddles the interface between complexity science and social science”.

The conference will be held from the 24-25 September 2012 in the Royal Society International Centre, Chicheley Hall, near Newport Pagnell in the UK.

- Website: <http://www.csrw.ac.uk/events-hosted/complex-interface-conference-2012> (viewed May 2012)

Other Upcoming Conferences

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

General Interdisciplinarity/Transdisciplinarity/Team Science/ Action Research

- 3-8 June 2012, Academy of Transdisciplinary Learning & Advanced Studies (ATLAS) bi-annual meeting, Taichung, Taiwan (http://www.theatlas.org/index.php?option=com_content&view=article&id=22&Itemid=37)
- 10-14 June 2012, Society for Design and Process Science (SDPS), World Conference on Integrated Design and Process Technology (IDPT) - 17th International Conference on Transformative Science, Engineering, and Business Innovation: The Technology of Complex Systems, Berlin, Germany (http://sdpsnet.org/sdps/images/sdps_2012_call_for_papers_2011-10-5_v1_iso_a4.pdf) (link to external PDF)
- 22 June 2012, Swiss Conference on Interdisciplinarity and Transdisciplinarity, Sion, Switzerland (<http://www.transdisciplinarity.ch/e/Conference/Suisse/index.php>)
- [NEW] 22-23 June 2012, 2nd International Conference on Transdisciplinary Imaging at the Intersections between Art, Science and Culture, Melbourne, Australia (<http://blogs.unsw.edu.au/tiic/>)
- 25-28 June 2012, 7th International Conference on Interdisciplinary Social Sciences, Barcelona, Spain (<http://thesocialsciences.com/conference-2012/>)
- 12-14 July 2012, 7th Annual Interdisciplinary Network for Group Research (INGRoup) Conference, Chicago, USA (<http://www.ingroup.net/conference.html>)
- 26-30 August 2012, 32nd 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>)
- 5-7 October 2012, 5th International Conference On Social Sciences (ICSS): Advancing Interdisciplinary and Multidisciplinary Studies on Social Sciences, İzmir, Turkey (<http://www.icssconference.net/>)
- 11-14 October 2012, 34th Annual Association for Integrative Studies (AIS) Conference: Public Policy and the Promise of Interdisciplinary Dialogue, Rochester, USA (<http://www.oakland.edu/2012AIS>)
- [NEW] 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)
- 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

- 12-15 June 2012, 5th Chaotic Modeling, Simulation and Applications (CHAOS) 2012 International Conference, Athens, Greece (<http://www.cmsim.org/>)
- 2-6 July 2012, 11th International Conference of Sociocybernetics - Complexity and Social Action: Interaction and Multiple Systems, Faro, Portugal (<http://sociocybernetics.wordpress.com/2011/11/30/11th-international-conference-of-sociocybernetics/>)
- 5-7 July 2012, 8th Hellenic Society for Systemic Studies National and International Conference: Systems Approach to Strategic Management, Thessaloniki, Greece (http://www.2012.hsss.eu/1_2/HomePage)
- 9-12 July 2012, 22nd Annual International Council on Systems Engineering (INCOSE) International Symposium, Rome, Italy (<http://www.incose.org/symp2012/index.php>)
- 9-13 July 2012, American Society for Cybernetics (ASC) and Bateson Idea Group (BIG) Joint Conference, Asilomar, USA (<http://asc-cybernetics.org/2012/>)
- 9-13 July 2012, Modelling sessions at the 8th International Conference on Social Science Methodology:
 - Section: Modelling and simulation:
 - Session: Handling Complex Societal Systems: a Methodological Challenge
 - Session: New Normative Metrics in the Empirical Behavioral Sciences
 - Session: Social Simulation and Modelling for Public Policy
 - Session: Social Simulation Methods
 - Session: Social Network Analysis - General
 - Session: Social Network Data Collection in Population Surveys
 - Section: Social network analysis
 - Session: Models and Methods in Social Network Analysis
 - Session: Social Media Network Analysis,
- Sydney, Australia (<http://conference.acspri.org.au/index.php/rc33/2012/index/>)
- 15-20 July 2012, International Society for the Systems Sciences Conference: Service Systems, Natural Systems, San Jose, USA (<http://iss.org/world/sanjose-2012>)
- 16-19 July 2012, 7th Institute of Electrical and Electronics Engineers (IEEE) System of Systems Engineering (SoSE) Conference: Cooperative and Competitive Distributed Decision Making for Complex Dynamic Systems, Genoa, Italy (<http://www.sose2012.eu/>)
- 22-26 July 2012, 30th International Conference of the System Dynamics Society: Model-based Management, St. Gallen, Switzerland (<http://conference.systemdynamics.org/>)
- 30-31 August 2012, UK Systems Society 16th 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>)
- 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, 9th Applications of Social Network Analysis (ASNA) Conference, Zurich, Switzerland (<http://www.asna.ch/>)
- 4-7 September 2012, 4th World Congress on Social Simulation (WCSS), Taipei, Taiwan (<http://www.aiecon.org/conference/wcss2012/>)

- 10-14 September 2012, 8th Conference of the European Social Simulation Association, Salzburg, Austria (<http://www.essa2012.org/>)
- 18-20 September 2012, 3rd International Conference and 8th Science meets Business GameDays Congress plus 7th 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>)
- 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/>)
- 12-14 November 2012, 22nd Systems Thinking in Action Conference: The Power is in the Connections, Indianapolis, USA (<http://www.systemsthinkinginaction.com/>)
- 18-23 November 2012, 4th International Conference on Advances in System Simulation, Lisbon, Portugal (<http://www.aria.org/conferences2012/SIMUL12.html>)
- 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/>)
- [NEW] 7-10 January 2013, 46th Hawaii International Conference on System Sciences (HICSS), Grand Wailea, Hawaii (http://www.hicss.hawaii.edu/hicss_46/apahome46.htm)
- [NEW] 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

- 18-20 June 2012, Society for Risk Analysis (SRA)-Europe Conference 2012: Risk and Society - Decisions & Responsibilities, Zurich, Switzerland (<http://www.sraeurope.org/filehandler.ashx?file=9200>)
- 9-13 July 2012, 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Catania, Italy (http://ipmu.lip6.fr/Flyer_IPMU_2012_Catania.pdf) (link to external PDF)
- 18-20 July 2012, 3rd World Congress on Risk 2012: Risk and Development in a Changing World, Sydney, Australia (<http://www.sra.org/worldcongress2012.php>)
- 9-12 December 2012, Society for Risk Analysis (SRA) Annual Meeting, San Francisco, USA (http://www.sra.org/events_2012_meeting.php)

Other

- 4-6 June 2012, 4th UN Conference on Sustainable Development: Rio+20, Rio de Janeiro, Brazil (<http://www.earthsummit2012.org/>)
- 17-21 June 2012, 18th International Symposium on Society and Resource Management (ISSRM) - Linking the North and the South: Responding to Environmental Change, Alberta, Canada (<http://www.issrm2012.iasnr.org/>)

- 24-26 June 2012, 18th Annual International Sustainable Development Research Conference: People, Progress and Environmental Protection, Hull, UK (<http://www2.hull.ac.uk/science/isdrc18.aspx>)
- 6-8 July 2012, 12th International Conference on Knowledge, Culture and Change in Organizations, Chicago, USA (<http://ontheorganization.com/conference-2012/>)
- 9-11 July 2012, Australian Universities Community Engagement Alliance (AUCEA) Conference, Brisbane, Australia (<http://www.aucea.org.au/news/aucea-conference-9-11-july-2012/>)
- 18-20 July 2012, 15th International Association for Critical Realism Conference: Global Change Challenges & Critical Realism Debates, Grahamstown, South Africa, (www.iacr2012conference.co.za)
- 27-29 July 2012, WorldFuture 2012: Dream. Design. Develop. Deliver, Ontario, Canada (<http://www.wfs.org/content/register-worldfuture-2011>)
- 31 July-August 3 2012, 5th Annual Ecosystem Services Partnership Conference: Linking Science, Policy, And Participation For Sustainable Human Well-Being, Portland, USA (http://www.esconference.org/ESP_Conference)
- 1-5 August 2012, Society for Values in Higher Education (SVHE) Annual Meeting: Imagination and Compassion in Higher Education, Madison, USA (<http://www.svhe.org/content/2012-call-papers>)
- 23-25 August 2012, 2nd 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, 3rd International Conference on Sustainability Transitions: Navigating Theories and Challenging Realities, Copenhagen, Denmark (<http://www.ist2012.dk/index.php/IST/IST2012>)
- 27-30 September 2012, 26th Annual Conference of the Society for Literature, Science, and the Arts (SLSA), Milwaukee, USA (<http://litsciarts.org/index.html>)
- 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 26th 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>)
- [NEW] 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, 75th 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, 10th 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, 4th International Conference on Science in Society, Berkeley, California, USA (<http://science-society.com/conference-2012/>)
- 5-7 December 2012, 26th Annual Australian and New Zealand Academy of Management Conference: Managing for Volatility and Stability, Perth, Australia (<http://www.anzamconference.org/default.asp>)
- [NEW] 13-14 January 2013, 9th 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**, 7th World Environmental Education Congress: The Rural-Urban Relationship, Marrakech, Morocco (<http://www.weec2013.org/>)

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.

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