

## WELCOME

The Integration and Implementation Sciences (I2S) newsletter addresses a major challenge for those interested in the art and science of knowledge integration and implementation, namely that available resources are scattered, making them hard to access. This newsletter provides information about methods, case studies, journals, networks and conferences which are being compiled on the website <http://i2s.anu.edu.au/resources>.

In this newsletter we have started a new section on "Featured Conferences", which provides more information than the simple listings.

Gabriele Bammer and Peter Deane

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## FEATURED METHODS

### Team Science (COALESCE project)

Details: "Solutions to complex problems in the sciences require teams of specialists from diverse backgrounds working across the boundaries of disciplinary silos. The COALESCE (CTSA (Clinical and Translational Science Awards) Online Assistance for LEveraging the Science of Collaborative Effort) project aims to create, evaluate, and disseminate new, durable, readily accessible on-line learning resources to enhance skills needed to perform transdisciplinary, team-based translational research." The Team Science website provides four education modules. The module on team science covers:

- assembling and managing teams
- team conflicts and resolutions
- incentives and disincentives to collaborative research
- communication techniques
- evaluation methods.

Three other modules examine team science research in Behavioural Science, Basic Medical Science and Clinical Medical Science, respectively.

Website: <http://teamscience.net/> (viewed March 2012).

### Health Systems Evidence: An Online Repository of Research Evidence and Implementation

Details: From an I2S perspective the value of this website is that it provides an "...easy-to-search and continuously updated online repository of synthesized research evidence related to ... implementation strategies that can support change". The focus is on change in health systems. (It also provides a repository of synthesized research evidence related to governance, financial and delivery arrangements in health systems.) Access to the database requires registration (which is free).

Website at: <http://www.healthsystemsevidence.org/> (viewed March 2012).

Registration for access to this resource is at: <http://www.healthsystemsevidence.org/registration.aspx> (viewed March 2012).

### For more methods, such as

- Tools for Policy Impact: A Handbook for Researchers

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

## FEATURED CASE STUDY

### Participatory Research: Transforming Impoverished Pastoral Communities in Ethiopia

Coppock, D. L., Desta, S., Tezera, S. and Gebru, G. (2011). Capacity Building Helps Pastoral Women Transform Impoverished Communities in Ethiopia. *Science*, 334 (6061): 1394-1398. Website at: <http://www.sciencemag.org/content/334/6061/1394.full?ijkey=37dLvIKBPDjyM&keytype=ref&siteid=sci> (viewed March 2012).

This case demonstrates the use of participatory research to bring together pastoralists, donors and researchers to build the capacity of the pastoralists to better withstand drought and similar shocks. The case is part of the Pastoral Risk Management (PARIMA) project of the Global Livestock Collaborative Research Support Program (GL-CRSP). The impact was evaluated. Further material is available at: [www.sciencemag.org/cgi/content/full/334/6061/1394/DC1](http://www.sciencemag.org/cgi/content/full/334/6061/1394/DC1) (viewed March 2012) and in a supplementary report (Coppock, D.L., S. Tezera, S. Desta, and G. Gebru. (2012). Achieving Sustainable Development Impact among Pastoral and Agro-Pastoral People: Lessons Learned in Southern Ethiopia, 2000-2009. Ethiopian Society for Animal Production, Addis Ababa. Website at: [http://digitalcommons.usu.edu/envs\\_facpub/507](http://digitalcommons.usu.edu/envs_facpub/507) (viewed March 2012)). There is also a PARIMA project video available at: <http://vimeo.com/channels/crspdigest#12800413> (viewed March 2012).

#### For more case repositories, such as

- System Dynamics Case Repository

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

## FEATURED JOURNAL

### Science and Public Policy

"Science and Public Policy is [an] international journal on public policies for science, technology and innovation, and on their implications for other public policies." Special issues provide further in-depth discussion on topical issues, such as the policy rationale for cross-sector research collaboration; public participation in science and technology; and, boundary organisations in science, to name a few. "It covers basic, applied, high, low, and any other types of S&T [science and technology studies], and rich or poorer countries."

- Website: <http://spp.oxfordjournals.org/> (viewed: March 2012).
- Impact factor (2010): Nil.

#### For more journals, such as

- Systemic Practice and Action Research
- GAIA

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

## FEATURED NETWORK

### Science and Development Network (SciDev.Net)

Details: Science and Development Network aims to "...provide reliable and authoritative information about science and technology for the developing world [in order to give] policymakers, researchers, the media and civil society information and a platform to explore how science and technology can reduce poverty, improve health and raise standards of living around the world." Further, the vision of the network..." is to achieve better-informed decisions by individuals and organisations in the developing world on science- and technology-related issues, and thus the better integration of scientific knowledge and technological innovation into policies, programmes and projects intended to achieve sustainable development at all levels of society". Membership of SciDev.Net is open to all and this allows for the receipt of email alerts on the latest items posted to the website and the ability to comment on individual articles and use a listing service for announcements, events, jobs and grants.

- Website: <http://www.scidev.net/en/> (viewed March 2012).
- Join SciDev.Net: <http://www.scidev.net/en/user/signup/> (viewed March 2012).

### For more professional associations & networks, such as

- Network for Transdisciplinary Research (td-net)
- Interdisciplinary Network for Group Research (INGRoup)

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

## VIRTUAL SEMINAR

### The International Network of Interdisciplinarity and Transdisciplinarity (INIT) Virtual Seminar: Inter- and Transdisciplinary Horizons

The seminar explores the nature of academic knowledge in the context of the challenges driven by ongoing cultural and environmental changes. It reflects on "contemporary forms of academic knowledge production. With a focus on disciplinary, interdisciplinary and transdisciplinary scholarship, the seminar will shed light on the purposes that these approaches might best serve, the processes and practices by which understanding is advanced and validated, the leveraging contributions and challenges that these approaches presents, and resulting implications for research evaluation and education." This virtual seminar is open to all. It began on February 21, 2012 and closes on February 21, 2013.

- Website: <http://www.interdisciplines.org/conferences/FIRST-INIT-Virtual-Seminar-Inter-and-Transdisciplinary-Horizons-INIT-Purposes-and-Approaches> (viewed March 2012).
- To partake of the discussions, registration is required: <http://www.interdisciplines.org/login.php> (viewed March 2012).

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## FEATURED CONFERENCES

### **The 3<sup>rd</sup> Annual International Science of Team Science Conference**

This conference “is a forum to enhance our understanding of how best to engage in Team Science to meet society’s needs” It “serves: as a point of convergence for investigators studying Science teams and Team Science leaders/practitioners; to engage funding agencies to provide guidance on developing and managing Team Science initiatives; and to afford data providers and analytics developers insight into collaboration tracking and analysis needs. In this way, the SciTS Conference acts as a bridge between the Science and the praxis of Team Science, serving as an important conduit for translating empirical findings about Team Science into evidence-based effective practices for scientific teams and funders of Team Science.”

The 2012 conference will be held in Chicago USA from April 16-19. Sessions cover collaborative processes, leadership of teams, evaluation of team-based research, knowledge sharing and bridging worldviews.

- Website: <http://scienceofteamscience.northwestern.edu/annual-scits-conference> (viewed March 2012).

### **The 30<sup>th</sup> International Conference of the System Dynamics Society: Model-based Management**

The conference theme “highlights the role that formal models can play in the effective management of dynamic systems and how skills in modeling and simulation can contribute to organizational design, organizational learning, and policy-making. The use of models as part of formal theory-building is a central part of Jay W. Forrester’s vision of how system dynamics can contribute to management thinking, social science research and rigorous policy analysis. The different threads in the conference will provide for the diverse range of application domains in which system dynamics ideas are applied, as well as providing space for methodological developments and comparisons. The theme of the conference reflects the breadth of interest in system dynamics-based modeling and encourages participation from researchers, educators and practitioners.”

The Society’s annual international conference is held alternately in North America and Europe, with occasional appearances in Asia and the Pacific Rim. The 2012 conference will be held in St. Gallen, Switzerland from July 22-26.

- Website: <http://conference.systemdynamics.org/> (viewed March 2012).

### **Other Upcoming Conferences**

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

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

- 16-19 April 2012, 3<sup>rd</sup> Annual International SciTS (Science of Team Science) Conference, Chicago, USA (<http://scienceofteamscience.northwestern.edu/annual-scits-conference>)

- 7-8 May 2012, 11<sup>th</sup> Annual IAS-STS (Institute for Advanced Studies on Science, Technology and Society) Conference: Critical Issues in Science and Technology Studies, Graz, Austria (<http://www.ifz.tugraz.at/ias/IAS-STS/Upcoming-Activities/11th-Annual-IAS-STS-Conference>)
- 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](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) - 17<sup>th</sup> 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](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.iukb.ch/index.php?id=464>)
- 25-28 June 2012, 7<sup>th</sup> International Conference on Interdisciplinary Social Sciences, Barcelona, Spain (<http://thesocialsciences.com/conference-2012/>)
- 12-14 July 2012, 7<sup>th</sup> Annual Interdisciplinary Network for Group Research (INGRoup) Conference, Chicago, USA (<http://www.ingroup.net/conference.html>)
- 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>)
- 5-7 October 2012, 5<sup>th</sup> International Conference On Social Sciences (ICSS): Advancing Interdisciplinary and Multidisciplinary Studies on Social Sciences, Izmir, 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>)
- [NEW] 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))
- [NEW] 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

- 26-29 March 2012, Symposium On Theory of Modeling and Simulation (TMS'12) (formerly known as the DEVS Integrative M&S Symposium), Orlando, Florida, USA (<http://tms-devs.org/doku.php>)
- 27-28 March 2012, 6<sup>th</sup> Simulation Workshop (SW12), Worcestershire, UK (<http://www.theorsociety.com/Pages/Conferences/SW12/SW12.aspx>)
- [NEW] 10-13 April 2012, 21<sup>st</sup> European Meeting on Cybernetics and Systems Research, Vienna, Austria (<http://www.emcsr.net/>)
- 12-15 June 2012, 5<sup>th</sup> Chaotic Modeling, Simulation and Applications (CHAOS) 2012 International Conference, Athens, Greece (<http://www.cmsim.org/>)

- [NEW] 2-6 July 2012, 11<sup>th</sup> 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/>)
- [NEW] 5-7 July 2012, 8<sup>th</sup> Hellenic Society for Systemic Studies National and International Conference: Systems Approach to Strategic Management, Thessaloniki, Greece ([http://www.2012.hsss.eu/1\\_2/HomePage](http://www.2012.hsss.eu/1_2/HomePage))
- 9-12 July 2012, 22<sup>nd</sup> Annual International Council on Systems Engineering (INCOSE) International Symposium, Rome, Italy (<http://www.incose.org/symp2012/index.php>)
- [NEW] 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 8<sup>th</sup> 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, 7<sup>th</sup> 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, 30<sup>th</sup> International Conference of the System Dynamics Society: Model-based Management, St. Gallen, Switzerland (<http://conference.systemdynamics.org/>)
- [NEW] 30-31 August 2012, UK Systems Society 16<sup>th</sup> Annual Conference - Global Crises: Systems Perspectives, Oxford, UK (<http://www.ukss.org.uk/>)
- 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> Conference on Applications of Social Network Analysis (ASNA), 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/>)
- 10-14 September 2012, 8<sup>th</sup> Conference of the European Social Simulation Association, Salzburg, Austria (<http://www.essa2012.org/>)

- 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] 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] 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/>)

## 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/home.aspx?lan=230&tab=745&pag=747>)
- 9-13 July 2012, 14<sup>th</sup> International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Catania, Italy ([http://ipmu.lip6.fr/Flyer\\_IPMU\\_2012\\_Catania.pdf](http://ipmu.lip6.fr/Flyer_IPMU_2012_Catania.pdf) (link to external PDF))
- 18-20 July 2012, 3<sup>rd</sup> World Congress on Risk 2012: Risk and Development in a Changing World, Sydney, Australia (<http://www.sra.org/worldcongress2012.php>)
- [NEW] 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))

## Other

- 26-29 March 2012, Planet under Pressure Conference: New Knowledge towards Solutions, London, UK (<http://www.planetunderpressure2012.net/>)
- 18-21 April 2012, 15<sup>th</sup> Community-Campus Partnerships for Health (CCPH): Community-Campus Partnerships as a Strategy for Social Justice: Where We've Been & Where We Need to Go, Houston, USA (<http://www.ccph.info/>)
- 4-6 June 2012, 4<sup>th</sup> UN Conference on Sustainable Development: Rio+20, Rio de Janeiro, Brazil (<http://www.earthsummit2012.org/>)
- 17-21 June 2012, 18<sup>th</sup> 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, 18<sup>th</sup> 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, 12<sup>th</sup> 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/>)
- [NEW] 18-20 July 2012, 15<sup>th</sup> International Association for Critical Realism Conference: Global Change Challenges & Critical Realism Debates, Grahamstown, South Africa, ([www.iacr2012conference.co.za](http://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, 5<sup>th</sup> Annual Ecosystem Services Partnership Conference: Linking Science, Policy, And Participation For Sustainable Human Well-Being, Portland, USA ([http://www.espconference.org/ESP\\_Conference](http://www.espconference.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>)
- [NEW] 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>)
- 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>)
- [NEW] 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>)
- 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/>)
- [NEW] 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/>)
- [NEW] 5-7 December 2012, 26<sup>th</sup> Annual Australian and New Zealand Academy of Management Conference, Perth, Australia (<http://www.anzamconference.org/default.asp>)
- 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://www.societyforhumanecology.org/>)
- [NEW] 9-14 June **2013**, 7<sup>th</sup> World Environmental Education Congress: The Rural-Urban Relationship, Marrakech, Morocco (<http://www.weec2013.org/>)

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## 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.

The 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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