

#### WELCOME

Welcome to the March/April I2S News, where we highlight new additions to the resources on the I2S website (<a href="http://i2s.anu.edu.au">http://i2s.anu.edu.au</a>). In this edition, we are particularly pleased to showcase three new guides for interdisciplinary research – for funders, researchers and research partners.

In the News we also present the latest blog posts published on the Integration and Implementation Insights blog (<a href="http://l2Insights.org">http://l2Insights.org</a>). We are now publishing two blog posts per week, with one set of posts covering a range of issues related to modelling and the other set tackling a wide range of topics, including research impact, interdisciplinarity and its funding, transdisciplinary education, transdisciplinary theory, knowledge co-production, mental models and many more. We would welcome your comments in response to any of the posts and please contact us if you would like to contribute a blog post.

Gabriele Bammer and Peter Deane

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#### **About I2S News**

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#### **FEATURED TOOLS**

#### **Transboundary Competence**

Transboundary competence involves the ability to deal with diversity and to cross the boundaries that divide perspectives. Seven key boundaries and useful approaches to cross them are shown in the following table:

	Need to cross boundaries between	Useful approach
1	systems	systems analysis
2	disciplines	interdisciplinarity
3	science and society	transdisciplinary; participatory
4	nations	international, transnational
5	cultural	cross-cultural
6	spatio-temporal scales	outlook studies, back-casting; local to global
7	methods	creative thinking, designing

Previous work by Jaeger and colleagues is drawn on to also highlight less tangible skills required for transboundary competence, such as a) "humility and openness towards other disciplines, worldviews and other sources of knowledge, both formal and informal" and b) "willingness to acknowledge that the partial knowledge the researcher brings to the dialogue table will be transformed in the discussion process (giving latitude to other people)".

Tuinstra, W., de Kraker, J. and Coervers, R. (2013). Wanted! Transboundary competence, digital poster #820, 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: <a href="http://i2sconference.digitalposter.com.au/posters-list/820">http://i2sconference.digitalposter.com.au/posters-list/820</a>).

#### Transdisciplinary Research: Competencies and How to Teach Them

This review of core competencies that need to be taught to develop transdisciplinary research includes:

- understanding the potential and limits of their own discipline
- understanding other disciplines
- ability to communicate clearly and concisely
- reflexivity on roles, social skills and discipline
- process.

These are then related to the phases of transdisciplinary research and to useful teaching tools, which include disciplinary relations matrix, fishbowl, mental models for quality, project constellation and self-evaluation.

Smetschka, B. and Haas, W. (2013). Teaching competencies for transdisciplinary research, digital poster #640, 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: <a href="http://i2sconference.digitalposter.com.au/posters-list/640">http://i2sconference.digitalposter.com.au/posters-list/640</a>).



Additional tools can be found at: <a href="http://i2s.anu.edu.au/resources/tools">http://i2s.anu.edu.au/resources/tools</a>

#### FEATURED APPROACH

#### Interdisciplinary Research: Guides for Funders, Researchers and Research Partners

Three guides have been developed to share collective knowledge on how funders, researchers, and wider research partners can work together for better outcomes to address pressing societal challenges.

A guidance note for research funders lays out seven key challenges and suggests ways forward from the pre-call stage to evaluation of completed research projects (see reference No. 1 below).

A separate guidance note for interdisciplinary researchers highlights the essential attributes and support required for successful interdisciplinary and transdisciplinary research, at the individual, team and research environment levels (*see reference No. 2 below*).

A third guidance note for partners who are not themselves researchers sets out general requirements for collaboration and provides a checklist of questions and actions from the precollaboration stage to after that can help achieve more successful collaborations (*see reference No. 3 below*).

#### References:

- Morris, S., Macleod, C. J. A., Bammer, G., Meagher, L., Gordon, I., Hartley, S., Lyall, C., Prager, K., Stringer, L. C., and Tibbett, M. (2016). Funding interdisciplinary research: improving practices and processes. *Working Together for Better Outcomes Workshop*, 26-27 March 2015, Edinburgh, UK, DOI: 10.13140/RG.2.1.2332.9044
- 2. Currie, M., Macleod, C. J. A., de Bruin, A., Maynard. C., Bammer, G., Meagher, L., Scott, A., Reed, M. and Campbell, C. (2016). Working together for better outcomes: good practice for interdisciplinary researchers. *Working Together for Better Outcomes Workshop*, 26-27 March 2015, Edinburgh, UK, DOI: 10.13140/RG.2.1.1677.5443
- Prager, K., Macleod, C. J. A., Meagher, L., Bammer, G., Irvine, K. N., Scott, A., George, S., Baird, E., Black, H., Daniell, T., Haffey, M., Homans, H., Rathjen, J. and Mohammed, S, (2016). Working together for better outcomes: the role of research partnerships. Working Together for Better Outcomes Workshop, 26-27 March 2015, Edinburgh, UK, DOI: 10.13140/RG.2.1.3250.4085

Additional approaches can be found at: <a href="http://i2s.anu.edu.au/resources/approaches">http://i2s.anu.edu.au/resources/approaches</a>

#### **FEATURED VIDEO**

#### **Action Research and the Transformation of Knowledge Creation**

Some say the scholar-practitioner form of knowledge creation started with Kurt Lewin in the 1950's. Others contend that it is the most natural form of knowledge creation practiced by people throughout time. This 30 minute video introduces the basic tenets of action research. After contrast is made with conventional social science, participants are left with:

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- The multi-dimensionality of action research.
- A way of doing social science that is not just descriptive, but also emancipatory.
- Illustrations of three scopes of action research at personal, interpersonal, and social levels.

This video "Action Research and the Transformation of Knowledge Creation" presented by Hilary Bradbury-Huang 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: <a href="https://youtu.be/itMFI8B\_oP4">https://youtu.be/itMFI8B\_oP4</a>.

#### LATEST 12INSIGHTS BLOG POSTS

The <u>I2Insights blog</u> has recently featured posts on:

1. Research impact: six kinds of change

(http://i2insights.org/2016/03/29/six-kinds-of-change/)

2. Moving from models that synthesize to models that innovate

(http://i2insights.org/2016/03/24/models-that-innovate/)

3. The knowledge practice paradox

(http://i2insights.org/2016/03/22/knowledge-practice-paradox/)

4. Facilitating participatory modeling

(http://i2insights.org/2016/03/17/facilitating-participatory-modeling/)

5. Working together for better outcomes: lessons for funders, researchers, and researcher partners

(http://i2insights.org/2016/03/15/working-together-for-better-outcomes/)

6. Modeling as social practice

(http://i2insights.org/2016/03/10/modeling-as-social-practice/)

7. Ten dimensions of integration: guidelines for modellers

(http://i2insights.org/2016/03/08/ten-dimensions-of-integration/)

8. Why participatory models need to include cultural models

(http://i2insights.org/2016/03/04/cultural-models/)

9. Do we need to discipline interdisciplinarity?

(http://i2insights.org/2016/03/02/disciplining-interdisciplinarity/)

10. Fire together, wire together: the role of funding bodies in supporting interdisciplinary research

(http://i2insights.org/2016/02/24/funding-interdisciplinary-research/)

11. What is the role of theory in transdisciplinary research?

(http://i2insights.org/2016/02/17/role-of-theory-in-transdisciplinary-research/)

12. Let's play: co-creating award courses for designing, teaching, researching, and facilitating transdisciplinarity – Transacademic Interface Managers as an example (http://i2insights.org/2016/02/03/three-options-for-research-impact/)

#### RECENT LINKEDIN GROUP POSTS AND DISCUSSIONS

The <u>LinkedIn Global Network for Research Integration and Implementation</u> has recently featured the following posts:

1. Where is your research heading? Do you have a plan? (blog post by Tamika Heiden) (https://www.linkedin.com/groups/4888295/4888295-6105888293432344578)

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2. Research for innovation requires an idea to market fit (blog post by Tamika Heiden) (https://www.linkedin.com/groups/4888295/4888295-6103388882923970564)

#### **FEATURED JOURNALS**

#### **Bioscience**

*Bioscience* publishes "overviews about research findings and techniques, advances in biology education, professionally-written feature articles about the latest frontiers in biology, discussions of professional issues, book reviews, news about AIBS [American Institute of Biological Sciences], a policy column (Washington Watch), and an education column (Eye on Education). Roundtables, forums, and viewpoint articles offer the perspectives of opinion leaders and invite further commentary".

From time to time it publishes overviews and articles relevant to I2S, including - in 2014-15 - on collaboration and team science, risk, decision making, public engagement, and research translation.

It is the journal of the American Institute of Biological Sciences.

• Website: <a href="http://bioscience.oxfordjournals.org/">http://bioscience.oxfordjournals.org/</a>

#### **British Journal of Sports Medicine**

The *British Journal of Sports Medicine* publishes "original research, systematic reviews, consensus statements and timely debate in sport and exercise medicine (SEM) as well as clinical education and implementation success stories." It has a strong focus on reviews and, relevant to I2S, occasionally publishes articles that have general relevance to research implementation or that provide good case studies of research implementation.

• Website: <a href="http://bjsm.bmj.com/">http://bjsm.bmj.com/</a>

#### **Environmental Modelling and Software**

*Environmental Modelling and Software* aims "to improve our capacity to represent, understand, predict or manage the behaviour of environmental systems at all practical scales, and to communicate those improvements to a wide scientific and professional audience." Of particular relevance to I2S, topics covered include:

- "Generic and pervasive frameworks, techniques and issues including system identification theory and practice, model conception, model integration, model and/or software evaluation, sensitivity and uncertainty assessment, visualization, scale and regionalization issues
- Integrated assessment and management of systems (river basins, regions etc.) for enhancing sustainability outcomes including linked socioeconomic and biophysical models that may be developed with stakeholders for understanding systems, communication and learning, and improving system outcomes.
- Artificial Intelligence (AI) techniques and systems, such as knowledge-based systems / expert systems, case-based reasoning systems, data mining, multi-agent systems, Bayesian

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- networks, artificial neural networks, fuzzy logic, or knowledge elicitation and knowledge acquisition methods.
- Decision support systems and environmental information systems implementation and use
  of environmental data and models to support all phases and aspects of decision making, in
  particular supporting group and participatory decision making processes. Intelligent
  Environmental Decision Support Systems can include qualitative, quantitative,
  mathematical, statistical, AI models and meta-models."

The journal endorses the International Environmental Modelling and Software Society (iEMSs) and its bi-annual scientific conference.

• Website: <a href="http://www.journals.elsevier.com/environmental-modelling-and-software/">http://www.journals.elsevier.com/environmental-modelling-and-software/</a>

Additional journals can be found at: <a href="http://i2s.anu.edu.au/resources/journals">http://i2s.anu.edu.au/resources/journals</a>

#### **FEATURED ASSOCIATIONS**

#### Association of European Operational Research Societies (EURO)

The Association of European Operational Research Societies (EURO) is "a regional grouping within IFORS" (International Federation of Operational Research Societies). Its aim is "to promote Operational Research throughout Europe" and to this end the association supports meetings and conferences, books and journals, and people through awards and general networking (such as through an e-newsletter). "The members of EURO are normally full members of IFORS and comprise the national OR [Operational Research] societies of countries, most of whom are located within or nearby (in a broad sense) Europe".

It was founded in 1975.

• Website: https://www.euro-online.org/web/pages/1/home

#### National Organization of Research Development Professionals (NORDP)

The *National Organization of Research Development Professionals* (NORDP) is a "peer network of Research Development professionals that enhances competitive multi-, inter- and transdisciplinary research". Research Development professionals "support the efforts of faculty to secure extramural research funding and initiate and nurture critical partnerships throughout the institutional research enterprise, among institutions, and with external stakeholders". Although beginning in the USA, NORDP has expanded globally in its goal "to develop and share best practices for attracting and managing research funding, and facilitate building and implementing collaborative services and resources that span across disciplines, and cross administrative boundaries within organizations and beyond, in order to foster multi- and interdisciplinary research excellence".

NORDP runs a listsery, a newsletter and a LinkedIn group for its members.

It was founded in 2010.

• Website: <a href="http://www.nordp.org/">http://www.nordp.org/</a>

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#### Additional professional associations and networks can be found at:

http://i2s.anu.edu.au/resources/associations\_networks

#### **FEATURED CONFERENCES**

34<sup>th</sup> International Conference of the System Dynamics Society: Black Swans and Black Lies: System Dynamics in the Context of Randomness and Political Power-play

"The annual System Dynamics conference brings together people from around the world to share research and application results and to build the community of those active in the field... System Dynamics has proven useful to analyze dynamically complex economic, social, and environmental issues. It is an effective methodology for designing robust systems and policies. We hope to challenge this usefulness in two areas: first, when systems are prone to be affected by random events that we were not able to include in our models; second, when System Dynamics models are not used in a fair or transparent way... With a focus on how System Dynamics modeling can be used to understand resilience against shocks and to support implementation of policies, we address major epistemological and teleological questions".

The conference will be held in Delft, Netherlands, on 17-21 July 2016.

For further details, please see:

• <a href="http://conference.systemdynamics.org/">http://conference.systemdynamics.org/</a>

# 3<sup>rd</sup> Biennial Australasian Implementation Conference: Driving Effective Implementation for Improving Outcomes across Human Services and International Development

"The AIC 2016 aims to advance implementation science – the integration of research findings and evidence into policy and practice – to ensure more effective implementation will result in better health, education and wellbeing for individuals, families, and communities... The two-day conference provides an important forum and opportunity to exchange inspiring ideas and showcase practical experiences on how to effectively pave the way from best evidence to best practice. It also provides a unique opportunity to engage with like-minded researchers, policymakers, practitioners, community and organisational leaders".

There will be a focus on six themes:

- 1. Implementation concepts and theories
- 2. Implementation strategies
- 3. Scaling up service and system-wide innovation
- 4. Measurements and tools
- 5. Implementation and the policy process
- 6. Implementation in international development

Abstracts close 8 May 2016.

The conference will be held in Melbourne, Australia, on 5-6 October 2016.

For further details, please see:

• <a href="http://www.ausimplementationconference.net.au/">http://www.ausimplementationconference.net.au/</a>



#### **Other Upcoming Conferences**

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

#### Interdisciplinarity, Transdisciplinarity and Action Research Methods

- 7 April 2016, Interdisciplinary Learning and Teaching: Frameworks and Practice, Sheffield, United Kingdom (www.sheffield.ac.uk/als/current/interdisciplinarity)
- 29 May 2 June 2016, The Academy of Transdisciplinary Learning and Advanced Studies (ATLAS): Transdisciplinary-Transnational-Transcultural(T3) Conference on Design, Process & Systems, Suzhou, China (<a href="http://www.theatlas.org/index.php?option=com\_content&view=article&id=166&Itemid=155">http://www.theatlas.org/index.php?option=com\_content&view=article&id=166&Itemid=155</a>)
- 16-18 June 2016, Action Research Network of the Americas 2016 Conference, Knoxville, Tennessee, United States of America (<a href="http://www.arnaconnect.org/conferences/2016-arnaconference">http://www.arnaconnect.org/conferences/2016-arnaconference</a>)
- 27-30 October 2016, 38<sup>th</sup> Association for Interdisciplinary Studies (AIS) Conference, Ottawa, Canada (http://wwwp.oakland.edu/ais/conferences/annualconference/)
- [NEW] 7-9 November 2016, Learning for Change and Innovation World Congress (incorporating the Action Learning, Action Research Association (ALARA) Australasian Conference; and the, Global Centre for Work-Applied Learning (GCWAL) Annual Conference), Adelaide, Australia (<a href="http://www.gcwal.com.au/2016congress/">http://www.gcwal.com.au/2016congress/</a>)

#### Systems, Modelling and Simulation

- 3-6 April 2016, Symposium on Theory of Modeling and Simulation (within the 2016 Spring Simulation Multi-conference), Pasadena, California, United States of America (http://tmsdevs.org/)
- 11-13 April 2016, 8<sup>th</sup> Simulation Workshop (SW16), Stratford, United Kingdom (http://www.theorsociety.com/Pages/Conferences/SW16/SW16.aspx)
- 19-20 May 2016, 21<sup>st</sup> Coalition Theory Network Workshop, Venice, Italy (http://www.coalitiontheory.net/section-annual-workshop)
- 22-26 May 2016, 9<sup>th</sup> Chaotic Modeling and Simulation International Conference (CHAOS), London, United Kingdom (http://www.cmsim.org/chaos2016.html)
- 31 May 3 June 2016, 30<sup>th</sup> European Conference on Modelling and Simulation (ECMS 2016), Regensburg, Germany (http://www.scs-europe.net/conf/ecms2016/)
- [NEW] 1-5 June 2016, Conference of the American Society for Cybernetics: Action and Reflection - The Individual and the Collective, Olympia, Washington, USA (<a href="http://asc-cybernetics.org/2016/">http://asc-cybernetics.org/2016/</a>)
- 3-6 June 2016, 28<sup>th</sup> European Conference on Operational Research, Poznań, Poland (http://www.euro2016.poznan.pl/)
- 12-16 June 2016, 11<sup>th</sup> International Conference on Systems of Systems Engineering (SoSE): SoSE and Cyber Physical Systems, from Academia to Application and Back, Kongsberg, Norway (http://2016.sosengineering.org/)
- 14-15 June 2016, 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/)
- 28 June 1 July 2016, 9<sup>th</sup> International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP16), Washington DC, United States of America (http://sbp-conference.org/sbp2016/about/)

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- 10-14 July 2016, Session on Sociocybernetics, Simulation and Anticipation: Paradigms and Challenges, in the 3<sup>rd</sup> ISA Forum of Sociology (RC51 Sociocybernetics), Vienna, Austria (<a href="https://isaconf.comfex.com/isaconf/forum2016/webprogrampreliminary/Session6970.html">https://isaconf.comfex.com/isaconf/forum2016/webprogrampreliminary/Session6970.html</a>)
- 13-17 July 2016, 24<sup>th</sup> Conference on User Modeling, Adaptation and Personalization, Halifax, Canada (http://www.um.org/umap2016/)
- 17-21 July 2016, 34<sup>th</sup> International Conference of the System Dynamics Society: Black Swans and Black Lies: System Dynamics in the Context of Randomness and Political Powerplay, Delft, The Netherlands (http://conference.systemdynamics.org/)
- 18-21 July 2016, International Council on Systems Engineering (INCOSE) International Symposium, Edinburgh, United Kingdom (<a href="http://www.incose.org/symp2016/home/when-where">http://www.incose.org/symp2016/home/when-where</a>)
- 24-29 July 2016, 60<sup>th</sup> Meeting of the International Society for the Systems Sciences: Unity in Diversity - Humanity in Technology, Boulder, Colorado, United States of America (http://isss.org/world/node/625)
- 6-8 September 2016, Operational Research (OR) 58 Annual Conference, Portsmouth, United Kingdom (http://www.theorsociety.com/Pages/Conferences/OR58/OR58.aspx)
- 7-9 September 2016, XIX International Conference on Systems Science, Wroclaw, Poland (<a href="http://www.icss.pwr.wroc.pl/">http://www.icss.pwr.wroc.pl/</a>)
- 19-23 September 2016, European Conference on Complex Systems (CCS'16), Amsterdam, The Netherlands (http://www.ccs2016.org/)
- 19-23 September 2016, Social Simulation Conference 2016, Rome, Italy (http://ssc2016.cnr.it/)
- [NEW] 11-14 December 2016, Winter Simulation Conference: Simulating Complex Service Systems, Washington D.C., United States of America (http://meetings2.informs.org/wordpress/wintersim2016/)
- 13-14 December 2016, 7<sup>th</sup> French Conference on Complex Systems Design & Management (CSD&M), Paris, France (http://www.2016.csdm.fr/)

#### Team Science and Project Management

- 9-11 May 2016, Project Management Institute (PMI) Global Congress 2016, Barcelona, Spain (http://congresses.pmi.org/emea2016)
- 16-19 May 2016, Science of Team Science 2016 Conference, Phoenix, Arizona, United States of America (http://www.scienceofteamscience.org/)
- 14-16 July 2016, 11<sup>th</sup> Annual INGRoup Conference, Helsinki, Finland (http://www.ingroup.net/conference.html)
- [NEW] 25-27 September 2016, Project Management Institute (PMI) Global Congress 2016 -North America, San Diego, California, United States of America (<a href="http://congresses.pmi.org/NorthAmerica2016/">http://congresses.pmi.org/NorthAmerica2016/</a>)

#### Uncertainty, Risk and Decision Making

- 20-22 June 2016, Conference 2016 Society for Risk Analysis Europe (SRA-E):
   Understanding Risk: From Theory to Application in Policy and Practice, Bath, United Kingdom (<a href="http://www.bath.ac.uk/ipr/events/news-0171.html">http://www.bath.ac.uk/ipr/events/news-0171.html</a>)
- 20-24 June 2016, 16<sup>th</sup> International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Eindhoven, The Netherlands (http://is.ieis.tue.nl/ipmu/)
- 10-14 July 2016, Session on Epistemic Uncertainty and Complexity Theories, in the 3<sup>rd</sup> ISA Forum of Sociology (RC51 Sociocybernetics), Vienna, Austria
   (https://isaconf.com/ex.com/isaconf/forum2016/webprogrampreliminary/Session6650.html)

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- 10-14 July 2016, Thematic Group on Sociology of Risk and Uncertainty (TG04) at the 3<sup>rd</sup> International Sociological Association (ISA) Forum of Sociology, Vienna, Austria (http://www.isa-sociology.org/forum-2016/tg/tg.php?n=TG04)
- 21-23 September 2016, 10<sup>th</sup> International Conference on Scalable Uncertainty Management (SUM 2016), Nice, France (<a href="http://sum2016.unice.fr/">http://sum2016.unice.fr/</a>)
- [NEW] 27-29 October 2016, European Sociological Association's (ESA) Risk and Uncertainty Research Network 22 - Mid-term Conference: Risk and Uncertainty in a Comparative Context, Aydin, Turkey (<a href="http://www.europeansociology.org/research-networks/rn22-sociology-of-risk-and-uncertainty.html">http://www.europeansociology.org/research-networks/rn22-sociology-of-risk-and-uncertainty.html</a>)
- 30 November 2 December 2016, 5<sup>th</sup> International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making (IUKM), Da Nang, Vietnam (http://www.jaist.ac.jp/IUKM/IUKM2016/)
- 11-15 December 2016, Society for Risk Analysis (SRA) Annual Meeting, San Diego, California, United States of America (http://www.sra.org/events/sra-2016-annual-meeting)

#### Bridging the Gap from Research to Policy and Practice

- [NEW] 23-25 May 2016, 8<sup>th</sup> Annual National Organization of Research Development Professionals (NORDP) Research Development Conference, Orlando, USA (<a href="http://www.nordp.org/annual-conference">http://www.nordp.org/annual-conference</a>)
- 28-29 June 2016, Canadian Knowledge Mobilization Forum, Toronto, Canada (<a href="http://www.knowledgemobilization.net/event/2016-canadian-knowledge-mobilization-forum-forum-canadien-sur-la-mobilisation-des-connaissances">http://www.knowledgemobilization.net/event/2016-canadian-knowledge-mobilization-forum-forum-canadien-sur-la-mobilisation-des-connaissances</a>)
- 5-6 October 2016, 3<sup>rd</sup> Biennial Australian Implementation Conference, Melbourne, Australia (http://www.ausimplementationconference.net.au/)
- 20-21 June <u>2017</u>, Global Implementation Conference: Expanding Implementation Perspectives Engaging Systems, Toronto, Canada (<a href="http://gic.globalimplementation.org/">http://gic.globalimplementation.org/</a>)

#### Other (including Sustainability Science)

- 11-15 May 2016, 8<sup>th</sup> International Conference for the Humanities, Arts, Science, and Technology Alliance and Collaboratory (HASTAC): Impact, Variation, Innovation, Action, Tempe, Arizona, United States of America (http://www.hastac2016.org/)
- 16-18 May 2016, 23<sup>rd</sup> Annual International Symposium on Sustainable Systems and Technologies, Phoenix, Arizona (http://issst2016.net/)
- 26-29 June 2016, Society for Ecological Economics (ISEE) 2016 Conference: Transforming the Economy - Sustaining Food, Water, Energy and Justice (http://www.isecoeco.org/isee-2016-conference/)
- 18-19 July 2016, 13<sup>th</sup> International Conference of Engaged Scholars and Practitioners, Melbourne, Australia (http://www.engagementaustralia.org.au/conference)
- 26-29 July 2016, International Association for Conflict Management 2016 Conference, New York City, New York, United States of America (http://www.iacm-conflict.org/)
- 2-4 August 2016, 11<sup>th</sup> International Conference on Interdisciplinary Social Sciences: An Age and its Ends: Social Science in the Era of the Anthropocene, London, United Kingdom (http://thesocialsciences.com/2016-conference/)
- 17-19 August 2016, 7<sup>th</sup> Annual VIVO 2016 Conference, Denver, Colorado, United States of America (http://vivoconference.org/)
- 12-15 October 2016, XXI International Conference of the Society for Human Ecology: Shaping a Liveable Future: Research – Education – Policy, Santa Ana, California, United States of America (http://societyforhumanecology.org/call-for-participation/)

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• [NEW] 6-9 December 2016, 30<sup>th</sup> Australian and New Zealand Academy of Management (ANZAM) Conference: Under New Management - Innovating for Sustainable and Just Futures, Brisbane, Australia (<a href="http://anzam2016.com/">http://anzam2016.com/</a>)

#### **ABOUT 12S 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": <a href="http://www.linkedin.com/groups/Global-Network-Research-Integration-Implementation-4888295">http://www.linkedin.com/groups/Global-Network-Research-Integration-Implementation-4888295</a> and new entries on the Integration and Implementation Insights blog: <a href="http://l2Insights.org">http://l2Insights.org</a>.

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#### Useful links:

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