

ISIE Spring 2015

ISIE News

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International Society for Industrial Ecology



Dear ISIE Members:

Let me start by stating how honored and humbled I am to serve as President of the ISIE. I am very much aware of how much dedication and commitment the position requires, having learnt from the Presidents who have come before me. I'm now near the beginning of my seventh year on ISIE Council, previously serving as Treasurer for four years and President-elect for two. I should know the ropes by now, although I'm constantly reminded that there is so much to learn – especially in such a rapidly evolving field as Industrial Ecology.

I'll return to something I've learnt about IE shortly, but I can't go further without thanking our Immediate Past President, Marian Chertow, for her great service to the Society over the past two years. Marian is such a generous and thoughtful person, and she has led the Society through some impressive developments – not least of which was the Society's first biennial conference outside of Europe or North America (with some help from Hung-Suk, and others, of course). The role of President actually, however, requires a six year commitment – and Marian has two more to go! So I should really also recognize Greg Keoleian who now steps down from Council- along with Fausto, Anthony, Daniel, and Paulo - all of whom have made important contributions to the Society. (See photo below of ISIE Council hard at work).

One of the projects that the Council has completed over the past two years is a booklet *Rising to Global Challenges: 25 Years of Industrial Ecology*. http://www.is4ie.org/Resources/Documents/ISIE%20booklet_final%20copy.pdf Yes, last year marked 25 years since Frosch and Gallopoulos' influential article in *Scientific American*. Our new 32-page booklet celebrates some of the many achievements of IE. In gathering material for the booklet, with Anthony, Julia, Melanie Judy and others, I was blown away by the breadth and impacts of current activities in IE. What I learned was that research in Industrial Ecology is currently booming - with exciting developments all around the world, whether in Australia, Mexico, Austria, Germany, China, Korea, Norway, the Netherlands or elsewhere. I do feel, however, that we need to double our efforts in the development of new university programs in IE. I'll return to this important topic in a later editorial.

One of the most enjoyable things about being President of ISIE is that I get to work closely with our Executive Director, Mak Dehejia. I've already been down to visit Mak in Washington D.C. a couple of times in the past year – most recently during the 5th North American Carbon Program Meeting. Mak is very much a practicing industrial ecologist – after a distinguished career with the IFC, the private sector arm of the World Bank Group. He's really keen to work with young industrial ecologists (or old for that matter) who have ideas for further practical development of IE. So if you're looking for an industrial partner, or just some advice on practical applications of IE drop Mak an email.

The new ISIE Council for 2015 has already had its first webinar meeting. I'm thrilled to have Edgar Hertwich join us as President-elect, along with new Council members Barbara Reck, Shi Lei, Xuemei Bai and Eric Williams. There is some slightly sad news (from ISIE's perspective) that our fabulous long serving Program Manager Melanie Quigley, has been promoted to the Dean's Office at Yale. Melanie has been the heartbeat of ISIE for many years. She will be helping Judy Crocker transition into the role of Program Manager until after the Surrey conference. Welcome Judy! The Society's eighth biennial conference is coming up very soon – July 7-10 at the University of Surrey. http://www.surrey.ac.uk/ces/news/key_events/isie_conference/. The title this year is *Taking Stock of Industrial Ecology* (the English love a double entendre). As well as reflecting back on the journey of IE so far – I'm sure the conference will prove to be key event for charting future directions. I know that Roland Clift and his colleagues received a huge number of abstracts and are running an extra mile by producing a book to accompany the conference. It'll certainly be an event not to miss. I look forward to seeing you all there.



The ISIE Council hard at work near Lucca, Italy in July 2014. There seems to be a split vote on this particular motion, but if I recall correctly it was made by the lady in the green apron: "Who would like a cappuccino?"

ISIE Sections Update

New Student Chapter Board Members

In November 2014, ISIE students elected four new representatives for the Student Chapter Board. Alfred Wreh (University of Queensland, Australia, originally from Liberia), Luis Felipe Vasquez Correa (Norwegian University of Science and Technology, Norway, originally from Columbia), Ignes Contreiras (Université de Lausanne, Switzerland, originally from Brazil) and Moana Simas (Norwegian University of Science and Technology, Norway, originally from Brazil) joined the two continuing Board members from 2013, Carolin Bellstedt and Tomer Fishman. The new members are already hard at work representing the growing student community of ISIE, organizing student events in the upcoming ISIE conference (more details in this newsletter), and planning the strategic long-term work of the Student Chapter as an integral part of ISIE. Contact them at <http://www.is4ie.org/students> and isiestudentchapter@gmail.com

Journal of Industrial Ecology News

New "Extra" JIE website

The *JIE* has launched at new website at <http://jje.vale.edu>. The website is intended to complement the main website maintained by Wiley, the *JIE*'s publisher (www.wileyonlinelibrary.com/journal/jie). The new site provides information that does not fit comfortably in the format of the Wiley site. The new site contains:

- Calls for Papers
- Database of Books Received—the "*JIE* Bookshelf"
- Resources for Authors - guidance on formatting, literature reviews, editing services, etc.
- Bibliographies of all *JIE* articles
- Styles/Templates and guidance for *JIE* reference style in Endnote, RefWorks and Zotero
- Links to translations of abstracts of all *JIE* papers into Chinese
- Gallery of *JIE* covers
- Letters to the Editor
- Information on Best Paper Prizes

Two parts of the new website are worth highlighting:

The ***JIE* Bookshelf** is a database of all the books received from publishers for

potential review in the *JIE*—a veritable, if ad hoc, compendium of more than 2 decades of industrial ecology related books. Books by ISIE members are highlighted and displayed at the top of the list.

A complete **listing of all articles published in the *JIE*** since its beginning is provided in EndNote, RefWorks and Zotero for easy referencing.

Winners of Graedel Prize Announced

The *JIE* has introduced a new prize, the Graedel Prize, honoring the best papers by a junior and senior author published in the journal. The prize is named for Yale Prof. Tom Graedel in recognition of his vital contributions and pioneering work in the development of the field of industrial ecology.

The annual prizes are being awarded to one paper written by a junior single author or first author and one paper written by a senior single author or first author. The inaugural winners of the Graedel Prize are:

- Junior Author Best Paper: “**Comparative Environmental Life Cycle Assessment of Conventional and Electric Vehicles**,” written by **Troy R. Hawkins, Bhawna Singh, Guillaume Majeau-Bettez, and Anders Hammer Strømman**.
- Senior Author Best Paper: “**An Exploration of the Relationship between Socioeconomic and Well-Being Variables and Household Greenhouse Gas Emissions**,” written by **Jeffrey Wilson, Peter Tyedmers, and Jamie E.L. Spinney**.

The winners of the Graedel Prizes will receive \$750 and a free membership in the ISIE. Funding for the prize has been provided by the Raw Materials Group Stockholm, A-1 Recycling, GE, AT&T, and the Nickel Institute.

More information about the prizes can be found at: <http://dx.doi.org/10.1111/jiec.12288>.

Do you receive the *JIE* table of contents alerts? If not, be sure to sign up to receive these emails or RSS feeds so that you always have the latest in industrial ecology research: <http://onlinelibrary.wiley.com/myprofile/alertManager>.

Reminder: Online-Only Publication

As of 2015, the *JIE* is online-only. For ISIE members who want to continue reading a print version of *JIE* issues, “print-on-demand” (POD) copies can be ordered for \$20/copy. For more information, contact the ISIE office (is4ie@yale.edu).

IE News from around the world

Student Activities in the SEM Conference in Melbourne

In November, the joint 11th ISIE Socio-Economic Metabolism Section Conference and the 4th ISIE Asia-Pacific Conference was held in Melbourne, Australia. Supported by the conference chair, a student organizing committee organized the early career professionals activities of the conference. The committee was composed solely of students and post-docs from around the world including two Student Chapter Board members. The events for the students and young professionals included a panel discussion with editors from the Journal of Industrial Ecology and the Journal of Political Ecology and a seminar-workshop with Dr. Inger Mewburn (a.k.a. the Thesis Whisperer). An ISIE student chapter meeting and a competition for the best student poster and presentation were also organized. Keith Lee from University of California, Berkeley won the poster prize and the presentation prize was awarded to Eliette Restrepo from the Swiss Federal Laboratories for Material Science and Technology (EMPA) and the Norwegian University of Science and Technology (NTNU).

LCA Courses at the Technical University of Denmark

- **Course A**: LCA modelling of waste management systems
- **Course B**: LCA modelling of bioenergy technologies and systems

Course description

The courses provide an introduction to LCA methodology as well as how to address the two types of systems. Focus is on providing the technical approach of modelling the various processes and technologies including the data structure and input to the

model. The student will learn to set up scenarios (systems for comparison), acquiring data on processes as well as external processes (electricity, auxiliary materials, etc.).

Performing the environmental assessment as well as the data interpretation are demonstrated several times during the course and also implemented by the participants using software installed on their own PCs.

For more information visit www.easetech.dk, or the brochure at <http://goo.gl/YdZxAt>

Anders Damgaard
Senior Researcher
Technical University of Denmark

Members' News



Dr. Chris Davis of TU Delft in the Netherlands was appointed Assistant Professor of Energy Informatics at the University of Groningen. Dr. Davis is using innovative methodologies in data retrieval and processing to expand our understanding of industrial ecology systems and utilize industrial ecology methodologies in new types of models and simulations.

Dr. Pin-Chin Wang recieved a posiiton as a Postdoctoral Researcher at the National Taipei University (NTPU) in Taiwan. Dr. Wang's PhD dissertation focused on The Applications of Extended Life Cycle Assessment and the IPAT Decomposition Analyses.

Following John N. Telesford DBA award (June 2014) for the thesis 'Strategic sustainability and industrial ecology in an island context: a study in the tourism accommodation sector, Grenada', he was appointed as Associate Dean and Lecturer, School of Continuing Education, T. A. Marryshow Community College, Grenada. In this capacity he is leading the development of a new program (in conjunction with two Canadian Colleges) in Environmental Sustainability Practices (ESP). He is also designing, developing and implementing a research arm of the College that will focus on sustainable development.

Upcoming Conferences

Students and Scholarships in the ISIE Biennial Conference in Surrey, UK

As in previous ISIE conferences, The 2015 ISIE Biennial Conference in Surrey, UK will include many student-related events and activities including a student poster competition, Student Chapter meetings, and social events (everyone's welcome!).

The highlight of the student activities is the extra conference day on July 11: *The Symposium on Industrial Ecology for Young Professionals (SIEYP)*. The event will be free of charge for students and young professionals, with the theme of "Envisioning Future Agendas in Industrial Ecology", which reflects the conference theme "Taking Stock of Industrial Ecology": How will the student community engage in the design and planning of the future paths of Industrial Ecology after having taken stock of the field?

The agenda includes keynote talks and opportunities for networking and discussions with senior ISIE members, flash presentations, workshops about the roles of students in ISIE/how to get published/how to land a good job/etc., and interactive 'break-out' focus groups (similar to last time's ad-hoc-a-thon).

The Student Chapter Board would like to invite all students and early career researchers (up to 3 years since graduation) to include Saturday in their travel plans to Surrey and join the symposium. Travel and lodging assistance for participation in the ISIE Conference and SYEIP may be available from ISIE and the Student Chapter. For more information and updates please check the Surrey Students website:

EcoBalance2016

We are pleased to announce that EcoBalance 2016, the 12th Biennial International Conference on EcoBalance, will be held from Monday the 3rd to Thursday the 6th of October 2016 in Kyoto, Japan. You will see a lot of new research results on life-cycle thinking and old Japanese culture there. More information on the conference will be available on the official website at <http://www.ecobalance2016.org>. Save the date for EcoBalance 2016 in Kyoto!

By Keisuke Nansai of National Institute for Environmental Studies (NIES)
of Japan (the conference chair)

IELab Conference, June 11th-12th, 2015, Manly, Sydney (Australia)

The 1st Conference of the [Industrial Ecology Virtual Laboratory \(IELab\)](#) will be held on June 11th-12th, 2015 at Harbord Diggers, Manly, Sydney. Information and Registration at <http://ielab.info>.

The IE community is cordially invited to participate in this milestone event of the IELab project. The IELab provides the most comprehensive, environmentally extended IO database available for use in Australia. The goal of the conference is to share information about the exciting IELab research platform, demonstrate projects using IELab, discuss new collaboration and projects ideas, provide hands-on training and guidance in using the IELab analytical toolbox, and network with researchers, practitioners, analysts and experts of Industrial Ecology. The registration includes conference materials and the conference dinner in the historic former St. Patrick's Seminary (now site of the International College of Management, Sydney).

Call for Abstracts: EcoDesign2015 International Symposium

9th International Symposium on Environmentally Conscious Design and Inverse Manufacturing - Sustainability through innovation in product life cycle design

- * Venue: Tokyo, Japan
- * Date: December 2 - 4, 2015.
- * URL: <http://ecodenet.com/ed2015/eng/indexeng.html>

It is our pleasure to invite you to submit your abstracts to EcoDesign2015. Since the first EcoDesign symposium in 1999, this symposium has lead the research and practices of environmentally conscious design of products, services, manufacturing system, supply chain, consumption, economics, and society. Professionals from industry, research laboratories, consulting, government, and academia are encouraged to attend and contribute.

Important Dates

- April 15, 2015 Abstract deadline
- April 30 Notification of acceptance
- (The deadline of full paper submission is different depending on the paper type you would submit. Please see the following page for more detail. <http://ecodenet.com/ed2015/eng/Importantdates/>)
- September 15 Deadline of submission of final papers

Topics

- Please find a variety of topics at:
<http://ecodenet.com/ed2015/eng/topic/>


You can submit the abstracts after March 1 through the submission system on the symposium website.

The abstract should not exceed 500 words in length, explaining the subject, originality, and relevance to EcoDesign2015.

We hope to meet you all in Tokyo!

Dr. Keijiro Masui, EcoDesign2015 Executive Committee Chair
Dr. Mitsutaka Matsumoto, EcoDesign2015 Program Chair

Contact: Ms. Yukari Takahashi, Secretariat, EcoDesign2015
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