

## Notes from Lisbon

### Ehrenfeld and Suh Honored

John Ehrenfeld received the Society Prize for his long-time dedication to industrial ecology. In nominating him colleagues described his leadership in establishing the Journal of Industrial Ecology and the ISIE as well as his influence in helping universities promote industrial ecology. John's long history in assessing and writing about industrial ecology and sustainability culminated in 2008 with his book, *Sustainability by Design*. As he steps down as the first Executive Director of ISIE, it is most appropriate that he receive the Society's highest honor.

The 2009 recipient of the Laudise Prize, given to a young researcher in industrial ecology, is Sangwon Suh. Interested in industrial ecology since he was a student, Sangwon has established himself as a leader in crossing disciplinary boundaries associated with life cycle assessment. He has published numerous academic articles and is co-author of the book *The Computational Structure of Life Cycle Assessment*. He has been active in ISIE, serving as a Council member and will serve as chair of the 2012 Gordon Research Conference on industrial ecology.

*Congratulations* to John and Sangwon!

### A Note on the Texture of the Industrial Ecology Community

#### Marina Fischer-Kowalski

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The social life of a conference matters. After a quick survey on the dinner night at the beautiful (built on Brazilian gold in the 17th century) Convento de Mafra in the outskirts of Lisboa I came up with the following – admittedly very sketchy – results.

The setting: 25 tables with ten seats each, located in an inner court of the renaissance castle, hosting the 200+ conference participants. Passing from table to table, screening and interviewing those seated there, I generated the following statistics:

- Only 1 (one!) of those tables was homogenous in terms of the people's nationality. All the others were mixed, and, as a rule, very mixed, with 3-4 different nationalities in place. Besides, asking for nationality did not come up with easy answers: born in one country, educated in

another, and working in still another was more common than I had expected.

- None (0!) of the tables was homogenous in terms of gender. I would not exclude I may have been misjudging some people (I would never have dared to ask!), but certainly not to the degree that might challenge my statistics.
- None (0!) of the tables was homogenous with respect to academic status – I found a wild mix from students to emeriti.

I felt reassured of my impressions from the academic parts of the conference: members of the ISIE community are interested in one another, curious and talkative, sharing common interests stronger than traditional cleavages. Thanks to the excellent local organization, these qualities did show.



## IE Opportunities

### **LCM2009—A program to discuss “the global challenge of managing life cycles”**

**Philippa Notten** (pipppa@tgh.co.za)

The 4th International Life Cycle Management Conference (LCM2009) will take place in Cape Town from 6-9 September 2009. The conference is hosted by the University of Cape Town, and endorsed by the United Nations Environment Programme. ISIE is supporting this conference.

Life cycle management is a response to the observations that traditional environmental management practices are narrowly confined (“gate-to-gate”) and that global sustainability pressures continue to grow. LCM promotes targeted interventions to improve the sustainability of public and private enterprises by minimizing the environmental and socioeconomic impacts associated with their products, services and activities throughout the entire material life cycles and value chains to which they contribute.

LCM2009 will seek answers to the critical questions of what it means to manage (not merely shift) the environmental and social impacts of global economic activity, what this entails for industry and public services in emerging economies,

and how supply chains, networks and partnerships can be stimulated and managed to deliver truly sustainable practice.

LCM2009 features more than 160 contributions from leading environmental practitioners, consultants and academic researchers. The industry contribution is headed by examples of LCM thinking and practice from six global companies (Hewlett Packard, SAB Miller, Unilever, Sasol, Novozymes and Ausmelt). Plenary presentations by eminent sustainability thinkers complement the programme.

The interactive conference format includes specialist training workshops dealing with the challenges of energy, climate change and carbon trading; restorative urban water management; and providing decision-support for the planning and practice of LCM. Post conference training will be offered by some of the participants on topics such as life-cycle based waste management, LCM for business, and LCM for the public sector.

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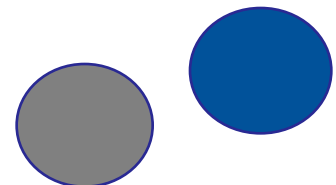
### **New IE Society**

The Korean Society for Industrial Ecology (KSIE) will be launched on the 15th July in Seoul. More info to come in future issues of ISIE News.

### **ISIE Awardee Suh Featured in News**

Sangwon Suh’s research on the relationship between bioethanol and water supply was featured in ScienceDaily in April.

See the piece at <<http://www.sciencedaily.com/releases/2009/04/090413102225.htm>>



## Conference Reports

### **International Symposium on Sustainable Systems and Technology**

**Rachael Nealer** (rnealer@andrew.cmu.edu)

The 2009 Institute of Electrical and Electronic Engineers (IEEE) International Symposium on Sustainable Systems and Technology (ISSST) was held 18-20 May in Phoenix, Arizona. This conference, formerly the International Symposium on Electronics and the Environment, was renamed after 16 years to promote the growing incorporation of sustainability and electronics. Conference organizers included Brad Allenby, Arizona State University; Scott Matthews, Carnegie Mellon University; Eric Masanet, Arizona State University, and Arpad Horvath, University of California, Berkeley.

Approximately 150 people attended and the audience was dominated by academia, although there was representation from the electronics industry. There were just over 100 papers presented and more than 30 posters. The main themes were Products, Systems, and Services; Tools and Methods; and Special Topics and Critical Perspectives. Papers ranged from highly technical studies, such as life cycle assessments of gold in electronic equipment, to broader topics that discussed the

idea of sustainability and its application. Presentations encompassed design through energy to end-of-life issues and emerging technologies. The posters were composed of more technical content, with material flows and environmental impacts of processes or products. Awards were given to the top three student papers and posters submitted.

The keynote presentation was given by Michael Crow, president of Arizona State University. He spoke of the value of education in relaying sustainability messages to the public. He discussed the barriers between academia and industry in many contexts, like that of researchers and product developers and also of the importance of interdisciplinary research.

The conference, overall, was successful in beginning to explore the interaction between the future of electronics and sustainability. Next year the ISSST conference will be held in Washington, DC at the end of May. For more information visit the website at <<http://www.ieee-issst.org/>>



*LCM2009 continued*

In a conscious bid to optimize the “eco-efficiency” of LCM2009, the conference aims to advance the global LCM agenda, while at the same time remaining a mid-size specialist event with carbon offsetting that supports a local sustainable development project.

Registration is open and the conference program is available at <<http://www.lcm2009.org>>

Attendance at LCM2009 will provide an opportunity for leading sustainability practitioners in the public and private sectors, consultants and aca-

demics, to actively engage with the LCM agenda, and to contribute to sustainable development.

Authors from LCM2009 are invited to submit papers for a special issue in The Journal of Industrial Ecology on “The Global Challenge of Managing Life Cycles” (this call is also open to members of the ISIE). The deadline for submissions is November 15 2009.

<http://www.is4ie.org>

## JIE News

### Impact Factor Rises in 2008!

The JIE received its impact factor for 2008 from ISI/Thomson-Reuters in June. The news is good: the impact factor is 2.041, an increase from last year's 1.962. The journal impact factor is the average number of times articles from a given journal published in the past two years have been cited in the year in question.

This rating continues to put the JIE at the top of its peer group, i.e., of journals that focus on sustainable production and consumption and/or industry and environment. For additional detail on the impact factor and on citation indexing, see the editorials in the JIE v10 n1-2 and v12 n4.

To see a list of the impact factors for various journals, go to <http://apps.isiknowledge.com> and click on Additional Resources and then on Journal Citation Reports. This does require a subscription by your home institution.

### Special Issues

The JIE is soliciting submissions for two special issues. "Environmental Applications of Information and Communications Technology (ICT)" will examine applications of ICT that produce environmental gains, especially those involving resource efficiency, loop-closing, design for the environment and other concepts central to industrial ecology. Appropriate paper topics include:

- Building and process control systems
- Building information modeling (BIM)
- Enterprise information systems that integrate environmental data with core business work flow and supply chain systems
- New developments in telecommuting and teleconferencing
- Changing employee and customer behavior to support environmental goals and processes
- Environmental auditing, reporting, and verification enabled through ICT
- Use of ICT to track substances, materials and products through their life cycle
- Grid/cloud computing, mesh networks, CPU scavenging and sensor-based systems
- Web 2.0

Scott Matthews of Carnegie Mellon University and Eric Masanet of Lawrence Berkeley National Laboratory will jointly serve as editors of the special issue. Support for this special issue is provided by the Leading Edge Forum of the Computer Sciences Corporation (CSC), Falls Church, Virginia, USA. A more detailed call for papers can be found at <http://www.yale.edu/jie/cfp-ict.html>. The deadline for submissions is September 15, 2009.

A second special issue will be published in conjunction with papers selected from the 4th International Life Cycle Management Conference (LCM2009). See page 2 for more information on this meeting. ISIE members are welcome to submit papers dealing with LCM for possible publication in this issue even if they are unable to attend LCM2009. The deadline for submissions for this special issue is September 15, 2009.

For submissions to both special issues, please use the JIE's web-based manuscript management and peer-review system at <http://mc.manuscriptcentral.com/jie>

*more JIE News*

### **New Subject-Area Editors**

**Reid Lifset** (Reid.Lifset@yale.edu)

The JIE is pleased to report that it has recruited Prof. Stephanie Hellweg to serve as editor for life cycle management. Dr. Hellweg is associate professor for environmental systems design at the Institute of Environmental Engineering in the Department of Civil, Environmental, and Geomatic Engineering at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland.

Gerard Dijkema, associate professor in the Energy and Industry group of the Infrastructure Systems and Services Department of the Faculty of Technology, Policy and Management at the Technical University of Delft in the Netherlands, will serve as the editor for complexity-related submissions.

Miguel Brandão, a scientist in the Life Cycle Assessment Team in the Rural, Water and Ecosystem Resources Unit of the Institute for Environment and Sustainability at the DG Joint Research Centre of the European Commission in Ispra, Italy will work with David Pennington as an assistant editor for LCA.

Dr. Walter Wehrmeyer, a reader in the Center for Environmental Strategy in the School of Engineering at the University of Surrey, in the UK joins Dr. Michael Brown as a case study editor for the JIE.

Dr. Seiji Hashimoto, Senior Researcher in the Research Center for Material Cycles and Waste Management of the National Institute for Environmental Studies, in Tsukuba, Japan will join Ester van der Voet and Claudia Binder as editors for MFA.

## Conference/Exhibition Listings

2009 Academy of Management Annual Meeting  
7-11 August 2009, Chicago, US

First International Congress on Sustainability Science  
and Engineering  
9-12 August 2009, Cincinnati, US

4th International Conference on Life Cycle Management  
(LCM2009)  
6-9 September 2009, Cape Town, South Africa

R'09 Twin World Congress  
14-16 September 2009, Nagoya, Japan and Davos,  
Switzerland

Conference EcoMediterranea  
24-25 September 2009, Palma de Mallorca, Spain

Joint North American Life Cycle Conference  
29 September - 2 October, Boston, USA

Pacific Rim Summit on Industrial  
Biotechnology & Bioenergy  
8-11 November 2009, Honolulu, USA

World Recycling Forum  
9-11 November 2009, Shanghai, China

3rd International Conference on Eco-Efficiency Model-  
ling and Evaluation for Sustainability  
18-20 November 2009, Egmond aan Zee, the Nether-  
lands

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***Post your meeting on the ISIE website***

## Student Chapter

### Student Activities at the 2009 ISIE Conference

**Wenjie Liao** (wenjieliao@gmail.com)

**Junming Zhu** (jzhu1@umd.edu)

**Vered Doctori-Blass** (vdoctori@bren.ucsb.edu)

**Amy Landis** (alandis@pitt.edu)

For student attendees the added value of ISIE Lisbon Conference included great opportunities for brainstorming discussion, networking, and face-to-face meetings.

Thirty two students participated in the ISIE 2009 poster competition. The competition was organized by Junming Zhu, PhD student at The University of Maryland. Three volunteer judges Thomas Graedel, Julia Steinberger and Anders Stromman chose the top three winners during the two day poster sessions. The winners are Aweewan Mangmeechai from Carnegie Mellon University (3rd place), Matthew Eckelman from Yale University and Arnim Scheidel from University of Klagenfurt (joint 1st place). Each received a certificate, a cash prize and one-year free membership with electronic JIE access generously provide by the Society.

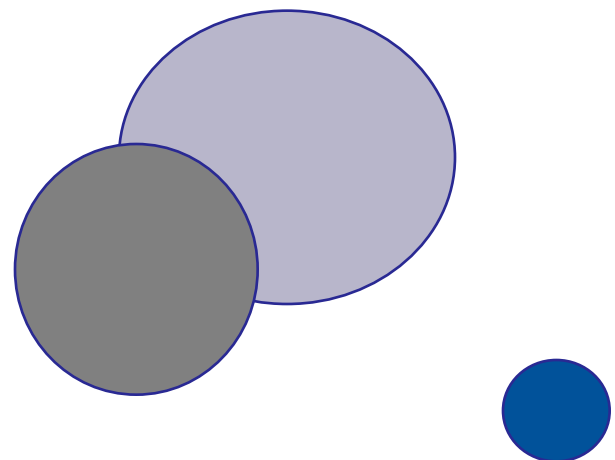
The second meeting of the Student Chapter's Advisory Board took place on June 22, and was chaired by Vered Doctori-Blass. The Advisory Board members, Student Chapter officers, and chapter alumni members Paulina Jaramillo and Shelly Miller discussed the development strategy, nomination process, representatives in the Society's Committees, and the plan for GRC-IE 2010. The board members include Vered Doctori-Blass, Amy Landis, Fausto Freire, Troy Hawkins, Ming Xu, Scott Matthews, Tom Seager, Soumya Chatterjee, and Anahita Ahmadi. The board is looking for additional members to join and support the future growth of the chapter.

On June 23rd, almost 40 students attended the annual Student Chapter meeting. Amy Landis presented the history of the Chapter, Vered Doc-

tori-Blass summarized the past activities organized by the Student Chapter, and Wenjie Liao introduced the current student activities, explained the structure of the Student Chapter, and discussed the future plans for the chapter. The meeting ended with Q&A regarding membership, scholarship, officer's position, etc. The Student Chapter is currently looking for new members to join the leadership team. More information about the open positions and the nomination process will be sent via e-mail in the next few weeks, so stay tuned!

We greatly appreciate Roland Clift, John Ehrenfeld, Melanie Quigley, Paulo Ferrão, Reid Lifset and many other ISIE colleagues for their support to our student community. We look forward to meeting again at Colby-Sawyer College next summer.

We warmly welcome every student to join the Student Chapter. For more information, please visit <<http://www.isiestudents.com>>



*more* Student Chapter

**The First Symposium on Industrial Ecology for Young Professionals**

**Ming Xu**

**Vered Doctori-Blass** (vdoctori@bren.ucsb.edu)

With generous financial support from the US National Science Foundation, the first Symposium on Industrial Ecology for Young Professionals (SIEYP) was held on 17 May 2009 in Tempe, Arizona. The symposium was organized by the ISIE Student Chapter with the support of the ISIE council. There were 53 participants at the symposium and 40 of them were awarded financial support by the conference committee. Most of the attendees were from the US including four postdoctoral researchers and 44 graduate students. The conference committee was also able to support four international students to attend the symposium, two from Germany, one from Sweden, and one from China.

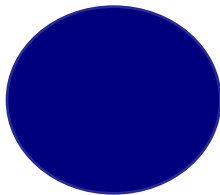
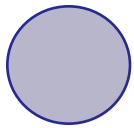
Additionally, seven faculty members (also ISIE members) participated in the symposium including the keynote speaker, Brad Allenby; faculty discus-

sants, Jackie Isaacs, Tom Seager, Roland Geyer, and Amy Landis; and the technical committee, Brad Allenby, Clint Andrews, Roland Geyer, and Eric Williams. The symposium was co-chaired by Ming Xu (PhD student at Arizona State University and now a Postdoctoral Fellow at Georgia Institute of Technology) and Vered Doctori-Blass (PhD candidate at University of California, Santa Barbara). Other organizing committee members included Ramzy Kahhat and Callie Babbitt from Arizona State University. The program included 12 oral presentations and 13 posters. The program and some of the presentations will be available on the student chapter web site. More information about this symposium can be found at <<http://www.isiestudents.com/sieyp2009.php>>.

***At best, societies and economies are devoted to the measurable components of human welfare. But by definition anything measurable is quantity, not quality.***

**—Donella Meadows**

*Submit your IE-related news. Write a conference summary. Review a website. Offer a brief research note. Express an idea for improving our Society. Post a notice about a job or meeting. Report news about an ISIE member.*



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## **International Society for Industrial Ecology**

The International Society of Industrial Ecology (ISIE) promotes industrial ecology as a way of finding innovative solutions to complicated environmental problems and facilitates communication among scientists, engineers, policy makers, managers and others who are interested in how environmental concerns and economic activities can be better integrated.

### **Officers**

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President-Elect—Greg Keoleian  
Treasurer—Chris Kennedy  
Secretary—Kristan Cockerill

### **Council**

Gemma Cervantes                      Thomas Theis  
Marian Chertow                        Sangwon Suh  
Seiji Hashimoto                        Amy Landis

**Student Liaison**—Wenjie Liao

### **Nominating Committee**

Diana Bauer                              Glen Peters  
Marina Fischer Kowalski              Shinichiro Nakamura  
Arpad Horvath

**Executive Director**—John Ehrenfeld

**Editor**, *Journal of Industrial Ecology*—Reid Lifset

<http://www.is4ie.org>

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### **ISIE News Schedule**

<u>Publication Date</u>	<u>Submission Deadline</u>
Sep 2009 v9n3	14 Aug 2009
Dec 2009 v9n4	13 Nov 2009

Send submissions to the appropriate editor.

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