

ISIE News

International Society For Industrial Ecology

Special points of interest:

- ISIE Sections update
- JIE News
- IE news from around the world
- Upcoming Conferences
- IE Training programs
- Open positions
- Members News

Inside this issue:

| | |
|-----------------------------------|------|
| ISIE updates | 1-2 |
| ISIE Sections Updates | 3 |
| JIE News | 4 |
| Global IE News | 5-6 |
| Upcoming Training and Conferences | 7-12 |
| Members News | 13 |
| Open Positions | 14 |

Dear ISIE Community,

The summer is here, and many of us will be meeting soon in the GRC conference in Les Diablerets, Switzerland. We hereby bring you another issue of the ISIE newsletter with many exciting news from around the world. Before you jump into the newsletter, please read the exciting ISIE news below:

The United Nations General Assembly recently announced the list of 800 non-governmental organisations accredited to attend the “Rio+20” conference on Sustainable Development, to be held in Rio de Janeiro on June 20-22. ISIE is one of these accredited organisations (thanks to an initiative by Susan Spierre and Melanie Quigley). Sergio Pacca and John Elif Hermansen along with Anne Hewes, attending as delegates from ISIE . Good Luck to Everyone!

We are also pleased to announce a reinvigorated industrial ecology web discussion forum, housed on our ISIE website at <http://is4ie.org/discuss> . A debate that began in the pages of the *Journal of Industrial Ecology* on the use of market information in LCA is migrating to the ISIE’s discussion forum.

We encourage you to subscribe to the forum so that you can be part of the conversation <http://www.is4ie.org/discuss?eid=1&act=Subscribe>. We invite you to join the discussion and also to begin new topics as you see fit. Currently, the public is able to view the forum but you must be a member in order to fully participate. We are looking forward to meaningful and varied discussions around industrial ecology.

Roland, Melanie, and Vered

UPDATE: Payment of ISIE Membership Fees

By this stage in the year, if you are reading the Society's Newsletter you have already paid your membership fees for the year. But if any of your colleagues who should be members have overlooked their fees, please remind them.

Wiley-Blackwell, who collect membership fees on the Society's behalf, have confirmed that they are happy to receive payments for personal membership by company or institution cheque/check or credit card. They also routinely send receipts, which in some countries can be used to offset the fees against income tax.

But they cannot issue invoices for individual membership to the organisation employing an individual member. If anyone would like to arrange for their employer to pay the fees directly, then this is possible only if the organisation becomes a corporate supporter of ISIE; in this case, it is possible for named employees to be in the same position as individual members. Please consult the ISIE office if your organisation might be interested in Corporate Membership.

Roland Clift

Executive Director

Student Chapter Update, by Susan Clark

The ISIE student chapter board recently distributed their first issue of the student newsletter, a newsletter designed *by students for students*. The goal is to provide an informal and fun way for student members to remain connected and stay up to date on current events related to Industrial Ecology. We are most excited about our the 'Around the World' section which features short research abstracts and/or information that students from all over the globe wish to share with the ISIE student network. We hope that the newsletter will generate increased interest toward student membership. Look for our next newsletter to be finished this summer.

On the morning of May 16th, 2012 the ISIE student chapter hosted a professional development event for graduate students attending the International Symposium for Sustainable Systems and Technology in Boston, MA. We had about 35 student attendees listen to the advice of four esteemed panelists, who are all young assistant professors, about the process of becoming a faculty member. Our panelists included Dr. Caitlyn Butler from the University of Massachusetts Amherst, Dr. Mikhail Chester from Arizona State University, Dr. Matthew Eckelman from Northeastern University, and Dr. Gabrielle Gaustad from Rochester Institute of Technology. Each panelist told their story of the transition from being a graduate student to becoming a full-time faculty member, including details on what to expect and how to prepare for the interview and job search process. Students participated in a rich discussion of a variety of topics, including life/career balance, grant writing, mentoring, teaching, and institutional/ departmental expectations. Overall students reported that they received invaluable information from the panelists.

In addition, the student chapter board is planning a social event for student members attending this summer's Industrial Ecology Gordon Research Seminar to be held in Les Diablerets, Switzerland on June 16-17.

The Sustainable Urban Systems (SUS) Section , by Chris Kennedy

The Sustainable Urban Systems (SUS) Section will be holding a workshop on Urban Futures in conjunction with UNESCO's Man and the Biosphere Programme (June 25th and 26th at UNESCO in Paris). Following the UN Rio+20 conference, and the Gordon conference on Industrial Ecology (June 17-22), the workshop will explore emerging issues at the intersection of research and policy on the global environmental impacts of cities. The workshop also includes participants from UNEP and OECD. Description of workshop sessions is given below. For further details contact Chris Kennedy (christopher.kennedy@utoronto.ca)

Session 1: Reflections Post Rio +20

Cities are mentioned in numerous places in papers leading into the Rio +20 conference. Greening of cities is seen by many as key to mitigating global climate change and tackling global resource challenges. Has a new sense of the role of cities in addressing global environmental impacts emerged from Rio +20? Several attendees from the Rio conference will be invited to share their reflections.

Session 2. Upstream Impacts of Cities

Much is known about the direct environmental impacts of cities and the quality of environments in cities, but the upstream environmental impacts of cities remain only weakly understood, and they are also methodologically difficult to analyze. The flows of energy, water, materials and food into cities have potential large impacts on climate change, biodiversity, nitrogen and phosphorus cycles, stocks of rare metals and other global environmental systems of concern. This session explores the wider upstream environmental impacts of urban metabolism.

Session 3. Governing Green Cities

Many of the challenges of sustainable urban development revolve around the governance of cities. Efforts to achieve sustainable land-use, transportation planning, progressive building codes and the greening of urban energy systems can be hindered by fragmentation of local governments and misunderstanding between different levels of government. Effective multi-sector and multi-level governance is key for greening cities; where is it being conducted successfully; and what are the ingredients that make it work well?

Session 4. Successful Green Cities

There are many examples of cities undertaking sustainable practices in specific sectors, such as energy supply, buildings, transportation, water and waste, but are there cities that are taking an integrated approach greening multiple sectors concurrently? Examples of sustainable neighbourhoods have been constructed, but can these be scaled up? To what extent are would-be green cities considering their full upstream environmental impacts?

Session 5. New Cities

As urbanization as a process accelerates can policy and planning in new cities leap-frog environmental, social and economic negatives of current cities to create green and sustainable living environments? What advances in planning, engineering and design can help to green future cities?

Organizing Sustainable Consumption and Production Chains Section , by Vered Blass

The section launched a new web site, please visit: <https://sites.google.com/site/isieoscpsection/home>

The section is hosting the first "un-conference" on June 14-15, 2012 in Rotterdam, NL

For more info and continuous updates, please visit: <https://sites.google.com/site/isieoscpsection/section-announcements/oscp-june-workshop>

For more information, please contact: Vered Blass (vblass@post.tau.ac.il)

JIE News, Reid Lifset

Raising the Bar for Symbiosis, LCA, and MFA Case Studies

As industrial ecology develops as a field, the standards for what constitutes a paper appropriate for the *JIE* change. When the field was young, there was a need to establish an empirical base so that the research community could have documented characterization of the phenomena of interest—characterizing, as it were, the dependent variable for our investigations. And there was also a need to be able to point to concrete research for practitioners who want to understand what industrial ecology is all about. This was especially true of industrial symbiosis where there was a strong need to build the empirical record to establish that symbiosis—beyond Kalundborg—was really occurring. In other domains—LCA and MFA—the need was more to develop methodology and practice. Thus, for industrial symbiosis papers, this often meant documenting the scope and character of eco-industrial parks and industrial ecosystems. The analog for LCA papers is what the LCA community calls LCA case studies: the straightforward application of LCA to a specific product, service, etc (not to be confused with case studies that document the organizational, managerial or policy context of the use of LCA).

Moving Beyond Industrial Symbiosis Case Studies

It is now well documented that industrial symbiosis exists and that various forms of symbiosis are being established building on that knowledge. As the articles in the recent special issue (*JIE* 16:1) show, more systematic empirical work is emerging allowing the testing of hypotheses and the building of theory. There will always be a place for case studies, but the emphasis is shifting to those that are effectively structured to test current claims in the literature in a rigorous fashion.

Screening LCA Case Studies

With the widespread use of LCA software, producing an LCA has gone from an exotic task to one that is com-

mon, almost routine. So, as expertise spreads and the research literature evolves, what is novel evolves. It will come as no surprise to most in our community that the *JIE* receives a lot of submissions of LCA case studies, i.e., the straightforward application of LCA to a specific product, service, etc. Given the evolution of the field and the finite page budget in the *JIE*, it is important that LCA case studies make a contribution to the literature. Either they must

- (1) bring new data into the literature (including provision of substantial raw, documented data)
- (2) employ a novel methodology, or
- (3) shed light on a specific topic or problem of interest/significance.

Regarding the first criterion, the threshold is high: data in an important sector/field that has hitherto not been analyzed with the LCA lens or data derived in a new and novel manner that significantly alters our view of the impacts of the system under study.

Extending Beyond Accounting in MFA

As with industrial symbiosis and LCA, MFA research has come a long way. Methodology has been put in place and a range of studies at various scales provide exemplars and an initial body of empirical understanding. So, here too, submissions need to provide a contribution and in many cases that means papers need to go beyond only providing an accounting of material flows; they must move theory, understanding of substantive issues, or methodology forward.

Of course, any good paper in a scientific journal will be based on an explicit statement of its contribution to the literature and therefore a clear understanding of how the work presented in the paper relates to the state of the literature. The evolution of the standards for symbiosis, LCA and MFA papers reflects the growing sophistication of industrial ecology research—of which we all should be proud.

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. Just go to <http://onlinelibrary.wiley.com/user-registration> and follow the instructions for registration. If you need assistance, contact the editorial office at indecol@yale.edu.

IE News from Around the Globe

News from MEXICO, by Gemma Cervantes

The Mexican Network of Industrial Ecology (REMEI), created in august 2010, organizes an **Industrial Ecology Course** (90h) mainly addressed to industries. The Course will be held in Queretaro (Qro, México) from September to November 2012. Some of the contents are: IE concept and examples, IE strategies and tools, Social dimensions of IE. If any of the industrial ecologists is interested in being a teacher in the course, we could explore some possibilities for financing the expenses.

A new **Industrial Ecology book in Spanish** will be soon published in México. "Ecología Industrial en México" is a product of the project "Factors favoring industrial ecology development in the industrial area Altamira-Tampico" financed by CONACYT (Mexican Council of Science and Technology) and coordinated by Universidad Autónoma Metropolitana (UAM). The book will describe general aspects of industrial ecology and will also gathered some of this project results.

Industrial Ecology has been included in the **Mexican document sent for RIO+20**. The Mexican Foreign Affairs office organized meetings with NGOs and members of the civil society in October 2011 to enrich the Mexican proposals. IE was proposed by REMEI in this meeting as a strategy for green economy. It was received with enthusiasm by the participants and included in the final document that Mexico sent to RIO+20 in January 2012.

The Joint German-Australian Research Group

The group is an amalgamation of the Life Cycle Engineering and Management Research Group of the University of New South Wales, Sydney, and the Product- and Life-Cycle- Management Research Group of the Technische Universität Braunschweig, Germany.

The academic education of students is a cornerstone of the Joint German-Australian Research Group and is united under the umbrella of "The Joint Group Academy". The first event of this program will be held this summer when participants will attend the International Summer University Sense (www.tu-braunschweig.de/international/sense) of the TU Braunschweig (June 25th-August 10th and July 30th-August 3rd)

In the context of the Joint German-Australian Research Group a new book series has been set up in cooperation with Springer. The series named **"Sustainable Production, Life Cycle Engineering and Management"** focuses on the issues and latest developments towards sustainability in production based on life cycle thinking. The titles published in the scope of the series are concerned with minimizing material and energy usage, adapting material and energy flows to better fit natural process capacities, and changing consumption behaviour as important aspects of future production and global responsibility.

The first two titles available in June 2012 are **"Energy Efficiency in Manufacturing Systems"** by Sebastian Thiede, which presents an innovative and comprehensive methodology towards energy efficiency in manufacturing and includes a generic energy flow-oriented manufacturing simulation environment as a core element, and **"Managing Green Business Model Transformations"** by Axel Sommer, who offers a holistic approach to sustainability by developing a comprehensive framework to support companies in the transformation towards green business models. These green business models can facilitate the commercialisation of new green products and improve economics of value creation by developing a green architecture of firms and their business networks.

We invite authors and editors to contact us to discuss proposals for publications and books in the series.

For more information on the Joint Group visit (www.sustainable-manufacturing.com)

Launch of Doctoral School Social Ecology in Vienna

The Institute of Social Ecology is reorganizing its doctoral program. The new Doctoral School Social Ecology (DSSE) has been launched on March 21st. The DSSE is a 3-year doctoral program and offers cutting edge research and excellent supervision in an interdisciplinary environment. Dissertation projects are complemented by a variety of courses and seminars which deepen the understanding of society-nature relations and facilitate interdisciplinary communication among students and faculty. Regular courses by renowned international scholars add to the teaching portfolio.

DSSE strongly encourages self-organization among doctoral students. SEC provides infrastructure and resources for a self-organized doctoral colloquium to facilitate communication and scholarly exchange among doctoral students. DSSE-members also have access to resources for inviting guests and to participate in international scientific conferences. Doctoral students in Social Ecology acquire experience in socio-ecological theories, concepts and methods, preparing them for international professional careers inside and outside academia. The DSSE is open to all students currently enrolled in the Doctoral Programme in Social Ecology and welcomes new applicants.

Industry Corner, by Mike Brown, BW Environmental LLC

In the corporate world, there have been a number of novel IE-related initiatives. Late last year, PUMA, the athletic and leisure shoe company, published an environmental profit and loss (E P&L) statement. The company, working with Trucost and PricewaterhouseCoopers, has made a significant effort to quantify in monetary terms changes in human welfare that result from PUMA's environmental impacts. The E P&L is part of a broader effort undertaken by PUMA to monetize its impacts and will be accompanied by social and economic impact profit and loss statements that are currently under development.

Companies are slowly starting to report Scope 3 GHG emissions using the "Corporate Value Chain (Scope 3) Accounting and Reporting Standard" created by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD). Scope 3 emissions are those across the company value chain involved in product and business activities. An environmental NGO, the Environmental Investment Organization (EIO), that tracks environmental reporting around carbon for 800 companies globally, found that about 25% reported some type of Scope 3 emissions. Of those, most reported 4 or less of the 15 types specified in the WRI/WBCSD standard.

AT&T announced that they are working with Businesses for Social Responsibility to create an eco-rating system for all phones that it sells. The rating system will cover environmentally preferable materials, energy efficiency, responsible end-of-life treatment and environmentally-responsible manufacturing and covers issues such as the percentage of recycled metals used in the device and restricted substances such as lead, cadmium, mercury, nickel and antimony trioxide/antimony compounds. The overall rating represents the composite score of the covered environmental attributes.

The Outdoor Industry Association Sustainability Working Group (OIA SWG) was recognized by the White House as a Champion of Change for Corporate Environmental Sustainability. The OIA SWG is a collaboration of 250 outdoor industry brands, retailers and suppliers that have developed the OIA Eco Index, a shared product sustainability indexing tool that provides a standardized framework incorporating life cycle assessment elements and language to assess product-level sustainability. The OIA Eco Index along with the Nike Material Sustainability Index is incorporated into the work of the Sustainable Apparel Coalition (SAC), a broader coalition of brands representing 30 percent of the global apparel and footwear supply chain, on indices for apparel and footwear index.

IE Programs and Training



ILCA
International
Life Cycle
Academy

The International Life Cycle Academy (ILCA), based in Barcelona, Spain, is proud to announce its first course offerings for the 2012-13 academic year. The following eight courses are offered on-site at the Escola Superior de Comerç Internacional (Universitat

Pompeu Fabra) and off-site on request, for both academics and professionals:

- An Executive Primer on LCA
- An introduction to the practice of LCA
- Life Cycle System Modelling
- Life Cycle Data and Data Quality Management
- Social Life Cycle Assessment: The Why and the How.
- Social Life Cycle Assessment: Practical Work with Methodological Sheets
- Comparing and Using Gabi, SimaPro and TEAM LCA Software
- Comparing and Using OpenLCA, Quantis Suite and Umberto LCA Software

More information is available on ILCA's provisional Website at: www.ilca.es or emailing directly to Jenna Watson at jenna@ilca.es

We would like to hear from YOU!

The ISIE newsletter is published four times a year. The aim of the newsletter is to keep our members informed about the latest and greatest ISIE news from around the globe.

We can only do it with your help!

Please send us any information you think is worth including in the newsletter and we will find a place for that (conference summary, important publications, job posting, new appointments, etc.).

Please email your contributions to vered@industrialecology.org.il

Summer School of Life Cycle Assessment (LCA) and Carbon Footprint (CF). Bellaterra Universitat Autònoma de Barcelona (UAB), July 15 to 30, 2012

The school consists of an intensive series of lectures (3 sessions of theory and 14 sessions of practice). Each attendant will receive a diploma upon completion of the course load granted by the Universitat Autònoma of Barcelona. The school is aimed to science, engineering, architects, designer students graduate or not and other professionals related to products, process and services management and creation. All course are taught in English, and the course material will be distribute after successful completion of the registration, before the course begin.

For any question/problem, please contact :

Carles M. Gasol , carles@ineditinnova.com or **Xavier Gabarrell**, xavier.gabarrell@uab.cat



LIPHE4 7th Summer School

LIPHE4 7th Summer School, September 17–21, 2012, Barcelona, Spain

The LIPHE4 Summer School is a reference point for young researchers and students who are eager to learn about innovative approaches in the field of Sustainability Studies. The Summer School offers a critical picture, both theoretical and practical, of recently developed analytical approaches towards sustainable development. It shows how to integrate quantitative methodologies that analyze and characterize complex systems and their evolution with qualitative methodologies that help structure the decision process in a social context. With these purposes in mind, both lectures and hands-on case studies form an integral part of the program.

More info can be found at : <http://www.liphe4.org/home?id=74>

For more information on the course, please contact Sandra Bukkens: bukkens@liphe4.org

Call for Papers

- Special Issue : "Sustainable Development and Financial Markets" in *Business & Society*.

http://www.sagepub.com/upm-data/45741_BAS_CfP_Sustainable_Development_and_Financial_Markets.pdf

For more information please visit: contact Dr. Timo Busch: tobusch@ethz.ch

Upcoming Conferences

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| <ul style="list-style-type: none"> • 18th Annual International Sustainable Development Research Conference, 24-26 June 2012, Hull, UK www.hull.ac.uk/isdrc18 • ECOS 2012, Renewable Energy Conversion Systems and Sustainable Technologies. , June 26-29, 2012 , Perugia, Italy http://www.ecos2012.unipg.it • International Symposium on "Life Cycle Analysis and Construction" , Nantes, France 10-12 July 2012 http://lca-construction2012.ifsttar.fr • Asia Pacific Business Innovation and Technology Management Conference, Genting Highlands, Kuala Lumpur, Malaysia, July 1-3, 2012 • MFA-ConAccount Section Conference 2012, <i>Socio-economic metabolism</i>, Darmstadt, Germany, 26.-28. September 2012, www.mfa2012.tu-darmstadt.de • LCA XII Life-Cycle Thinking... Life-Cycle Living, Sept. 25-27, 2012, Tacoma, WA http://lcacenter.org/LCAXII.aspx • The 62nd Canadian Chemical Engineering Conference, to be held in Vancouver, British Columbia from October 14-17, 2012. http://www.csche2012.ca/1_about/welcome.html • ReuseConex 2012 – North America's Reuse Conference & Expo, October 18-20, 2012 in Portland, OR, USA, http://reuseconex.org/register • the 9th Annual Industrial Symbiosis Research Symposium, Tianjin, China, October 19, 2012 • The Third ISIE Asia-Pacific Meeting 2012, Beijing, China, October 20–21, 2012 www.cern.org.cn/ | <ul style="list-style-type: none"> • the ISIE EID-ConAccount Meeting 2012, Beijing, China, October 20–21, 2012 www.cern.org.cn/ • The 18th Greening of Industry Network (GIN) Conference, Sweden, 22 - 24 October, 2012 www.greeningofindustry.org • Baltic Inert Material Management Symposium (BIMMS), November 21 and 22, 2012, Stockholm, Sweden www.bimms.org • SUSTAINABLE INNOVATION 2012, Bonn, Germany, October 29-30. http://cfsd.org.uk/events/sustainable-innovation-2012/ • “Applying Industrial Ecology Principles to Promote Sustainable Structural Materials – Exploring New Frontiers”, which will be held during the First International Conference on Performance-based and Life-cycle Structural Engineering (PLSE 2012), 5-7 December 2012, Hong Kong http://www.polyu.edu.hk/fce/PLSE2012/ • 5th International Conference on Life Cycle Management March 24-27, 2013 , Mendoza, Argentina , http://www.cilca2013.org/ • Waste to Energy, plus recycling June 5-7, 2013, Bremen Exhibition Centre, Germany http://www.wte-expo.com/ |
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International Symposium on Sustainability 62nd Annual Canadian Society for Chemical Engineers Conference

Co-organized by the Institution of Chemical Engineers (IChemE) and supported by the International Society for Industrial Ecology (ISIE)

**October 14-17, 2012
Vancouver, British Columbia, Canada**

www.csche2012.ca

First Circular and Call for Papers

Submit Abstract Online http://www.csche2012.ca/2_program/submit_abstract.html
By May 31, 2012

This symposium will not only showcase chemical engineering contributions to sustainability, but that it will also create bridges between chemical engineers and other professions. As such, we are seeking presentations that appeal to a multi-disciplinary audience. Relevant topics might include, but certainly not limited to:

- 1. Sustainability in professional practice**
 - 1.1 Education and professional development
 - 1.2 Policy and regulation to support sustainable development
 - 1.3 Case studies
 - 1.4 Certification systems
- 2. System approaches to sustainability**
 - 2.1 Selection and design of processes and products
 - 2.2 Industrial symbiosis and by-product synergy
 - 2.3 Resource efficiency
 - 2.4 "Closed-loop" use of materials
 - 2.5 Dematerialization
- 3. Infrastructure and the built environment**
 - 3.1 Green developments: institutional, industrial, commercial, mixed use and residential
 - 3.2 Sustainable buildings
 - 3.3 Transport and land use

Innovative and interactive formats will be considered an asset.

Evaluation Criteria

- Supports sustainability theme;
- Provides technical learning for chemical engineers;
- Provides multi-disciplinary perspective to chemical engineers;
- Helps to explain the importance of chemical engineering expertise to non-chemical engineers;
- Abstract is clearly written;
- Innovative or interactive delivery format is proposed.

Symposium Co-Chairs:

Roland Clift, University of Surrey, Surrey, UK;
Naoko Ellis, University of British Columbia, Vancouver, Canada;
Tracy Casavant, Light House Sustainable Building Centre, Vancouver, Canada

Local Committee Members: Tyler Lewis, Joylene Yu, Amir Dehkhoda

International Symposium on Life Cycle Assessment and Construction**Nantes, France, July 10-12, 2012**

IFSTTAR (French Institute of Sciences and Technology for Transport, Development and Networks resulting from the merger of LCPC and INRETS) and **CSTB** (French Scientific and Technical Centre for Buildings) in partnership with the **RILEM** (International Union of Laboratories and Experts in Construction Materials, Systems and Structures), the **ISIE** (International Society for Industrial Ecology), and the **SETAC** (Society of Environmental Toxicology and Chemistry) invite you to participate to the International Symposium on LCA and Construction 2012.

75 articles have been submitted from 21 countries: through a rigorous peer review system, 40 of them have been selected for oral presentations and article publication; and 29 have been for posters and abstract publication. 3 keynote lectures will open the symposium to remind the history of research in LCA in general and in the construction sector: Jeroen Guinée (CML Leiden), Arpad Horvath (UC Berkeley) and Niklaus Kohler (University of Karlsruhe) make us the great honour to come as invited speakers.

8 sessions will be handled during the first two days on the following topics:

- LCI data: validation, aggregation and uncertainties
- Methods for buildings
- Decision and management
- Case studies for infrastructures
- Case studies for buildings
- Methods for construction materials
- Dynamic LCA for service life and indicators
- End of life, wastes and allocation

The third day is dedicated to organise exchanges between researchers and LCA practitioners around societal expectations, standardization, public policies and research challenges. It will address the following issue: "How to articulate the LCA & construction research with its implementation in practice?" Invited experts will come from several countries to share their practise and their opinions through presentations and round tables.

Registration: <http://lca-construction2012.ifsttar.fr/registration.php>

Location: La Cité, the Nantes events center: <http://www.lacite-nantes.com/uk/index.html>

Contact information:

Website: <http://lca-construction2012.ifsttar.fr>

E-mail: lcaconstruction2012@ifsttar.fr

Call for Papers: Mini Symposium on “Applying Industrial Ecology Principles to Promote Sustainable Structural Materials – Exploring New Frontiers”, which will be held during the First International Conference on Performance-based and Life-cycle Structural Engineering (PLSE 2012), 5-7 December 2012, Hong Kong

The objectives of this mini symposium are several:

- 1) to provide a much needed update on the life cycle environmental impacts of key structural materials – especially concrete, steel and wood;
- 2) clarify how the methodologies of LCA can be fine-tuned to study these and other related materials in the future;
- 3) explore how other related principles of IE, especially MFA and substance flow analysis (SFA), can be used to create a more complete picture of the overall environmental sustainability of structural materials;
- 4) explore the usefulness of applying state-of-the-art life cycle sustainability assessment (LCSA) to the industries of structural materials; and
- 5) study how results from applications of IE to construction materials can help in policy formulation and implementation.

Besides topics that are relevant to the abovementioned objectives, we are also interested in different ways of applying industrial ecological perspectives to promoting sustainable building materials.

We are still accepting abstracts and the full papers are not due until 1 August. Please email your abstract (max 300 words) to the symposium Chairman, Dr. Harn Wei Kua, at bdgkuahw@nus.edu.sg,

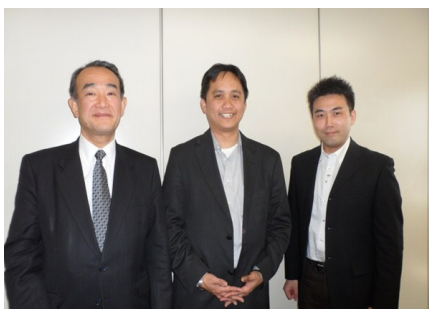
For more info, please visit: <http://www.polyu.edu.hk/fce/PLSE2012/>



Organised by
Faculty of Construction and Environment
The Hong Kong Polytechnic University
www.polyu.edu.hk/fce/PLSE2012

ISIE Members News

- Corinne Scown left her postdoctoral scholar position at UC Berkeley in mid February to become a Principal Scientific Engineering Associate in the Environmental Energy Technologies Division at Lawrence Berkeley National Laboratory. Good Luck Corinne!
- Dr. Abhishek Agarwal joined the Aberdeen Business School at the Robert Gordon University in the UK as Lecturer Energy Strategy after successfully defending his PhD thesis on industrial symbiosis. He wishes to continue contributing to the field of industrial ecology through continued research, publications, special issues and books. Abhi can be contacted by email via abhi_mgmt@hotmail.co.uk
- After a successful month-trip for forging collaborative research activities in closed loop and sustainable systems with our industrial ecology colleagues in Japan (see picture below with Prof. Hirao and Dr. Kikuchi at the University of Tokyo), Dr. Anthony Halog, a Professor in Industrial Ecology and Environmental LCA, has been selected to participate in a summer research program in the U.S. Department of Energy's (DOE) at the National Renewable Energy Laboratory (NREL) in Golden, Colorado. In recognition of his research expertise, Dr. Halog has been chosen to participate in state-of-the-art research at one of DOE's premier research laboratories. NREL's compelling mission involves finding clean and renewable energy solutions (e.g. drop-in biofuels) to our nations' and the worlds' energy needs. Participation in the program is designed to provide valuable research experience with resident scientists. He will be working closely with Dr. Garvin Heath and Dr. Yimin Zhang of NREL on their collaborative research project on *"Integrated Sustainability Analysis for Evaluating Impacts of Producing "Drop-In" Biofuels on Ecosystem Goods and Services"*.



Grants and Awards

- The research group of Helmut Rechberger at Vienna University of Technology has received a research grant of the Christian Doppler Society. The project runs for 5 years with a possible extension for another 2 years and has a yearly budget of some 500.000 Euros. The project will be directed and managed by Johann Fellner.

Special Publications

- A team of IE researchers lead by Professor Manfred Lenzen from the University of Sydney recently published an article in NATURE titled: INTERNATIONAL TRADE DRIVES BIODIVERSITY THREATS IN DEVELOPING NATIONS For more info, please visit: <http://globalcarbonfootprint.com/biodivmap/pr.html>

Open Positions

Yale School of Forestry & Environmental Studies Lectureship Position in Life Cycle Assessment

The Yale School of Forestry & Environmental Studies invites applications for Lecturer in Life Cycle Assessment (LCA). The part-time appointment will be for one year with the possibility of renewal. The primary function of this appointment is to teach graduate level courses in Life Cycle Assessment and Sustainability Metrics.

We seek candidates holding a PhD with an academic background in LCA or at least 7 years of professional experience. Ideal candidates have strong experience working with the business sector, are familiar with process and EIO-LCA methodologies as well as multiple impact assessment protocols including ReCiPe and TRACI, and common LCA software packages including SimaPro. The ideal candidate pursues advances in both LCA methodology as well as applications. Additional consideration will be given to candidates that have a demonstrated leadership position in the LCA community.

Candidates should have strong expertise in such fields as: environmental assessment, sustainability metrics, sustainable design and allied fields.

Deadline: June 30, 2012

To Apply: Applicants should submit a curriculum vitae, a statement of research and teaching interests, and the names and contact information of four references via email with the subject line "Environment Faculty Searches – LCA" to Melanie.quigley@yale.edu

Applications received by June 30 will receive full consideration.

Post-doctoral Research Opportunity

At least two new post-doctoral positions are expected to open up, starting August 2012, in my research group to expand capabilities in analysis and modeling of urban sustainability challenges. Specific topics for research may include, but will not be limited to urban resilience; urban adaptation to global change; urban material and energy use; and urban climate, public health and environmental justice.

Qualified applicants must have completed by August 2012 a PhD in geography, urban studies, civil and environmental engineering, ecological economics, industrial ecology or a related field, and possess strong analytical skills and relevant modeling experiences (e.g. dynamic modeling, statistics, GIS) as demonstrated by prior coursework, dissertation, and publication record. Solid understanding of one or more of the following is highly desirable: complex system dynamics; climate change economics and policy; regional science; and urban systems analysis.

Please send electronic copies of a cover letter, CV, writing sample and three reference letters to Matthias Ruth (mruth1@umd.edu). Review of applications will occur on a rolling basis and continue until the positions are filled.

More Positions

Are Available at:

<http://www.is4ie.org/jobs>

We would like to hear from YOU!

The ISIE newsletter is published four times a year. The aim of the newsletter is to keep our members informed about the latest and greatest ISIE news from around the globe.

We can only do it with your help!

Please send us any information you think is worth including in the newsletter and we will find a place for that (conference summary, important publications, job posting, new appointments, etc.).

Please email your contributions to vered@industrialecology.org.il

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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.

WWW.IS4IE.ORG

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Next ISIE Newsletter Schedule

Publication Date

Submission Date

October 15, 2012

September 20, 2012

ISIE Membership Information

Check us out on [LinkedIn](#) and [Facebook](#)!

Visit our website (<http://www.is4ie.org>) to connect with other members of the ISIE community, update your profile, access the JIE electronically, join the conversation in the discussion forums and much more.

To access the Members Only pages, visit www.is4ie.org/membersonly

Consider joining one of the ISIE Subject Sections as part of your membership. The ISIE now hosts six topical sections:

- Material Flow Analysis - ConAccount
- Life Cycle Sustainability Assessment
- Eco-Industrial Development
- Environmentally Extended Input Output
- Sustainable Urban Systems
- Organizing Sustainable Consumption and Production

Information about each section can be found at <http://www.is4ie.org/topicalsections> Subject sections are open only to members of the Society. Join as many of these sections as you would like.

To join a section, sign in to the Members Only pages and click the link to "View Profile". You will see a section within your profile to choose which sections you would like to join. You will then be included on correspondence within that section.
