



ISIE News

International Society For Industrial Ecology

Special points of interest:

- ISIE Sections update
- JIE News
- News from around the Globe
- Industry Corner
- Members News
- Open Positions
- Conferences

ISIE 2011 conference is HERE

Dear ISIE Community ,

With the summer season just around the corner, the 2011 ISIE conference is only a month away. Old and new members and friends will meet in beautiful Berkeley, CA to share and celebrate their recent work and contribution to the development of the IE field.

Many of us know each other from previous conferences but the growing interest in IE will bring new people to join the ISIE community.

The conference preliminary program is available online and it looks like we are going to have a great mix of topics, tools, and methodologies presented. I look forward to report on the conference outcomes in the next newsletter issue.

I wish you all a great end of the academic year and I look forward to seeing you all in Berkeley.

Vered Doctori Blass, newsletter editor

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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

Inaugurating a Section on Organizing Sustainable Consumption and Production at ISIE 2011, by Frank Boons

Some time ago the ISIE council has approved the formation of a new section which seeks to bring together people interested in exploring the challenge of achieving sustainability for product chains. The Section's first steps will be coordinated by Kikki Baumann (Henrikke.Baumann@chalmers.se) and Frank Boons (boons@fsw.eur.nl).

The globalised economy has led to much outsourcing of production, and product life cycles consequently sprawl across the globe. This poses particular challenges for their sustainability management and governance, since no single actor has overview, much less control over an entire production and consumption system, yet changes need to be considered in the context of the entire system in order to reduce environmental sub-optimisation. Although LCAs

can provide comprehensive environmental descriptions for products, the capacity to act upon such information is not automatic - it requires actors that communicate, collaborate, coordinate, etc, their environmental demands, tasks, actions etc, in these systems. The improved understanding of the issues for environmental organisation of product chains is therefore at the heart of the members of this chapter.

Sustainability research concerning consumption and production is dispersed over several knowledge communities. This Section will aim to provide a platform for systematic and interdisciplinary treatment of the management issues of product chains. We expect discussions to draw upon contributions from supply chain management, life cycle management, environmental management and strategy, product design and service sys-

tems, environmental sociology and governance, among others. Furthermore, the development of methodologies that combine environmental study with study of organisation and management in various ways is of special interest for the Section.

We will take the opportunity of the Berkeley conference to organize a meeting for those who are interested in developing this section. As the conference program becomes available, we will choose a suitable time slot. If you are interested in joining this inaugural meeting, please send us both a message so we can update you about specific plans. We look forward to your input!

To learn more about ISIE topical sections please visit

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

Sustainable Urban Systems (SUS) Section Update, Anu Ramaswami

Sustainable Urban Systems Section Hosts Its First Workshop in June 2011: The Sustainable Urban Systems (SUS) section is planning a one-day workshop on June 6, 2011 at Berkeley, CA, just prior to the International ISIE conference (<http://isie2011.berkeley.edu/>).

WORKSHOP INVITEES: We invite diverse participants to the SUS workshop including policymakers, urban planners, engineers, architects, industrial ecologists, urban

ecologists, economists, environmental scientists, social scientists and others.

WORKSHOP OBJECTIVES: The objectives of the workshop are to:

- Get to know who is doing what, i.e., what are the major knowledge areas that comprise SUS and who is working in these various knowledge areas?
- Identify what are the key questions to be answered in these various knowledge areas, and what are the corresponding promising research methods, to inform and support SUS in practice.

- Create a community of members to help define the mission, vision, actions and goals of our new SUS section, enhancing our group's collective efforts to benefit cities and sustainability.

ISIE members interested in attending the SUS workshop should register here:

http://www.surveymonkey.com/s/Register_SUS_Workshop_ISIE_Berkeley

Industrial Symbiosis Eco-Industrial Development Section Update, Peter Lowitt

Board nominations have closed. We hope you will participate in the section board elections. Expect to receive email notice of our elections shortly. The new board will take office as part of the IS4IE Conference in Berkeley this June.

The Section will meet during the Berkeley Conference. Look for an announcement and/or flyers at the conference detailing where and when the section and those interested in joining it will meet.

The 8th Annual Industrial Symbiosis Research Symposium will meet June 5-6 prior to the IS4IE Conference. This year the Symposium will attempt to

tackle the difficult issue of definitions and defining the core questions of industrial symbiosis. Some of which might be:

- Definition: what is included in industrial symbiosis?
- What do we hold in common? What constitutes an exchange? How can we categorize exchanges?
- Which are “internal” or “external?” How quantify benefits?
- Should we develop a typology of parks?
- What would it look like? What are principal “business” models?

Teams with a minimum of five members will take on different aspects of the issue with the goal of bringing it all together and presenting to the group at

the symposium. Teams already expressing interest include:

- Prof. Park group - Ulsan
- Prof. Shi group – Tsinghua
- Prof. Chertow – Yale
- Prof. Baas – Linkoping
- Prof. Fujita – NIES

If you wish to form a group, please contact Professor Chertow, marian.chertow@yale.edu Everyone who wants to attend should join a research team with an established program (5 person min)

Questions will be sent to accepted teams. Each team will prepare a response to the questions and present to group. The goal is consensus and publication.

Student Chapter Update, Catherine Izard

The Student Chapter of ISIE is very excited to announce that we will be hosting a the second Symposium on Industrial Ecology for Young Professionals (SIEYP) on June 11, 2011 (right after ISIE Berkeley) in Berkeley, CA. Thanks to a generous grant from the United States National Science Foundation, this one-day student workshop will be free of charge for all students and young professionals attending. This symposium is specifically designed for young professionals, including graduate students and post-doctoral researchers. The primary goal of this symposium is to provide an opportunity for young professionals who perform research in the area of industrial ecology (IE) to present their ongoing research, receive constructive feedback, and network with senior professionals in their

fields. The theme of the symposium is *Handling Uncertainty in Industrial Ecology*. Topics include, but are not limited to, uncertainty in the context of material flows analysis, life--cycle methodology, input--output analysis, life--cycle management, complex systems and agent modeling, scenario development and analysis, policy planning, managing end-of-life products, and footprinting. More information, the Call for Papers and a financial aid application are available at our website: www.is4ie.org/students. We hope to see many of you there!

In addition to organizing SIEYP, we are busy planning several student activities at ISIE. These include social activities for students, a student

poster competition, and professional development seminars. We will also be holding the annual meeting of the student chapter. If you are interested in helping with these activities, or in getting involved with the student chapter in general, please contact Catherine Izard (cizard@andrew.cmu.edu).

The student chapter is also in the process of assembling a monthly circular of opportunities for students, including: fellowships and funding opportunities, job offers, conferences and workshops, and other items of interest to students in Industrial Ecology. Look for the first issue in your inbox in early April. To contribute or advertise opportunities to the Student Chapter, please email your item to Ankit Aggarwal (ankitk.aggarwal@gmail.com).

*New Developments:
A New Tool, a
New Associate
Editor, and a New
Special Issue*

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.

JIE News, Reid Lifset

New Tool: CrossCheck

The *JIE* has begun using a new tool called CrossCheck that helps identify plagiarism and other instances of use of text from previously published work in manuscripts submitted for publication. The service is provided by Wiley-Blackwell, the *JIE*'s publisher, to all its journals. It compares the text of manuscripts to papers published by a large number of the leading publishers and to reports and other content on the web.

The *JIE* is routinely screening all submissions using this tool. As a reminder, remember that any and all text taken from another publication should be referenced. This includes text borrowed from one's own previous publications. If blocks of text are taken from another publication they should not only be referenced, but an explanation should be provided to the reader in an endnote or similar approach indicating the extent of the reuse and the rationale for doing so. It is important that the extent of the duplicate text is clear, i.e., it is not sufficient to cite the source document in (only) one place in a manuscript; if a block of borrowed text occurs else-

where, the reference must be provided there as well.

More information about CrossCheck can be found at <http://www.crossref.org/crosscheck> and in the editorial for volume 15, number 3 of the *JIE*. If you would like to perform a "test run" to see what sort of duplication exists in your document, you can do so via <http://research.ithenticate.com>

The use of CrossCheck by journal editorial offices is paid for by the publisher, but unfortunately the service for individual researchers is separate and there is a US \$50 fee.

New Editor

The *JIE* is pleased to welcome Pascal Lesage as a new associate editor. Pascal is a Research Fellow in the Chemical Engineering Department at the École Polytechnique de Montréal and a Research Fellow at the Interuniversity Research Centre for the Life Cycle of Products, Processes and Services (CIRAIG). He joins Pippa Notten, Miguel Brandão and Michael Hauschild in managing the increasing submissions on LCA.

New Special issue on Sustainable Urban Systems

Industrial ecology is paying increasing attention to cities, focusing in particular on urban metabolism and urban systems. This special issue seeks to capitalize on and advance work on these topics. In addition, the issue will seek to make connections with the urban ecology literature which addresses many of the same topics and will build on papers from the November 2010 ISIE Asia-Pacific Meeting in Tokyo, and the 2011 ISIE conference in Berkeley. Guest editors for the special issue are Chris Kennedy (U of Toronto), Shobhakar Dhakal (IGES) Anu Ramaswamy (University of Colorado, Denver) and Larry Baker (University of Minnesota). The call for papers is available at <http://www.yale.edu/jie/CFPs/CfP-SUS.html> and the deadline for submissions is **August 31, 2011**.

Also, don't forget the submission deadlines for the **special issue on EPR (June 1)** and **Greening Growing Giants (August 1)**!

New book series on Industrial Ecology: call for manuscripts

Following the publication of *The social embeddedness of industrial ecology* (edited by Frank Boons and Jennifer Howard-Grenville), Edward Elgar publishers has decided to develop a book series entitled *Studies on the Social dimension of Industrial Ecology*.

The series aims to publish contributions to the field of industrial ecology which shed light on the way in which material and energy flows are shaped by, and shape, production and consumption practices in industrialized societies. The series is open to contributions focusing on various system boundaries, including regional industrial clusters, supply and product chains, and cities. The series aims to promote innovative research in which disciplinary boundaries are transcended, and thus theoretical, empirical, and normative work from social scientists, engineers, and natural scientists is welcomed. Also, the series will aim to provide insight into empirical and theoretical developments of industrial ecology in various regions of the world.

Proposals and submitted manuscripts for monographs and edited volumes will be reviewed by an editorial team led by Frank Boons, who can be contacted for further information (boons@fsw.eur.nl).

New EU FP 7 project at the Institute of Social Ecology Vienna

EU FP 7 project: VOLANTE

VOLANTE aims to develop a new European land management paradigm, providing an integrated conceptual and operational platform which allows policy makers to develop pro-active and context-sensitive solutions to the challenges for the future, rather than to react on largely autonomous external land systems developments.

Objective of VOLANTE is to provide European policy and land management with critical pathways defining the band width of possible land management policies for future European land use. Policy options will therefore be identified in time and space and their consequences in terms of states of the land system (provisioning of ecosystem goods and services) will be evalu-

ated, leading to a ROADMAP FOR FUTURE LAND RESOURCES MANAGEMENT IN EUROPE. SEC is in member of the core coordination team of VOLANTE, with Karlheinz Erb acting as a work-package leader and Helmut Haberl as work module leader.

Members Achievements, Institute of Social Ecology, Vienna

Karlheinz Erb was nominated to act as member of the scientific steering committee (SSC) of the Global Land Project (GLP). The Global Land Project is a joint research project of the International Geosphere-Biosphere Programme (IGBP) and the International Human Dimensions Programme (IHDP), and represents the international research framework for land systems research. <http://www.globallandproject.org/index.shtml>

Simone Gingrich was granted an "Award of Excellence 2010" by the Austrian Federal Ministry for Science and Research for her dissertation "A social ecology of European

Karlheinz Erb won an ERC Starting Independent Researcher Grant. The highly competitive Starting grants are awarded by the European Research Council (ERC) to research talents with proven potential and are aimed to support up-and-coming research leaders who are about to establish or consolidate a proper research team and to start conducting independent research in Europe. The research grant for the research project LUISE ("An integrated socioecological approach to land-use intensity: Analyzing and mapping biophysical stocks/flows and their socioeconomic drivers") provides the excellent opportunity to establish an interdisciplinary research team and to contribute significantly to the field of global land-use research over the next 5-years.

Helmut Haberl was invited as 'lead author' for the IPCC's 5th assessment report scheduled for 2014. He will be part of the Working Group III (Adaptation and Mitigation), chapter 11 'Agriculture, Forestry and Other Land Uses'.

Industry Corner, by Michael Brown, Brown and Wilmanns Environmental, LLC

A group of over 30 leading apparel and footwear brands, retailers, manufacturers, non-governmental organizations (NGOs), academic experts, and the U.S. Environmental Protection Agency recently announced the formation of the [Sustainable Apparel Coalition](#) with the goal of reducing the environmental and social impacts of apparel and footwear products. Members of the Coalition are collaborating on a shared vision of sustainability using an industry-wide index for measuring and evaluating product life cycle sustainability performance. Development of the index metrics will involve a wide range of stakeholders and be fully transparent. The Coalition will draw on existing efforts to measure and track apparel sustainability including the Outdoor Industry Association "Eco Index" and Nike's "Environmental Apparel Design" tools. Working together informally since early 2010, the Coalition plans to beta-test an initial version of an apparel and footwear sustainability index in 2011. The group will also serve as an information clearinghouse for the industry spotlighting promising technological innovations and identifying opportunities for improving current social and environmental practices throughout the value chain. Founding members of the Sustainable Apparel Coalition are based in North America, Asia, Europe and the U.K. They include Adidas, Arvind Mills, C&A, Duke University, Environmental Defense Fund, Esprit, Esquel, Gap Inc., H&M, Hanes-Brands, Intradeco, JC Penney, Kohl's Department Stores, Lenzing, Levi Strauss & Co., LF USA, a division of Li & Fung Limited, Marks & Spencer, Mountain Equipment Co-op, New Balance, Nike, Nordstrom, Otto Group, Outdoor Industry Association, Patagonia, Pentland Brands, REI, TAL Apparel, Target, Timberland, U.S. Environmental Protection Agency, Verité, VF Corp, and Walmart.

In the tech world, Microsoft released the results of a life cycle analysis study showing the energy and greenhouse gas emission benefits of [cloud computing](#) compared to the on-site use of hardware and software for the same services and found a minimum 30% reduction in impacts for large users (10,000) and over 90% reductions for small users (100). The study identified benefits flowing from avoiding wasted computer resources through better matching of server capacity and demand, shared infrastructure, higher server utilization rates, and the ability to implement advanced server facility designs on a regular basis.

The World Business Council for Sustainable Development has updated its [Global Water Tool](#). It's free, it's easy to use, and it's targeted at companies and organizations that want to map their water use and assess risks relative to their global operations and supply chains. It can help identify company sites that are in water-scarce areas, set priorities for sites at risk currently and in the future, identify current supply chain risks for water scarcity, and plan for future supply chain expansion. The tool is based on datasets that allow for comparing company water consumption data (site, employee, supplier) with water availability and consumption information at the local level.

State of Canada's Industrial Lands: Report Released, by Jenny Rustemeyer

Will Poor Infrastructure Affect Canada's Competitiveness? Local Governments Report on the State of Canada's Industrial Lands

Eco-Industrial Solutions recently released their first annual State of Sustainability Report entitled "A Local Government Perspective on Canada's Industrial Lands".

"Looking at the top issues, it's clear that the infrastructure deficit is beginning to affect our industrial lands" says Tracy Casavant, President.

The report, which reflects input from 143 local government organizations across Canada, notes that infrastructure issues such as insufficient water and sewer are a concern for existing and future industrial lands.

The report also notes that better land use planning will be key to ensuring that Canada's industrial lands continue to be competitive as communities strive to meet a growing list of sustainability objectives. Communities are looking forward, though, with many planning to encourage green industrial buildings and attract clean

technology and green businesses in the coming years.

To download the entire report, visit www.ecoindustrial.ca

About Eco-Industrial Solutions Ltd. (EIS)

EIS is the only firm in North America specializing exclusively in eco-industrial planning and development. Their firm has consulted on competitive, sustainable industrial development projects for government and private corpora-

tions in Canada, the U.S.A., Asia, Mexico, South America, and the Middle East. EIS was responsible for delivering the TaigaNova Eco-Industrial Park, Canada's first conventionally financed and profitable eco-industrial park, and for creating the strategy for North America's largest Eco-Business Zone. EIS is a socially responsible firm committed to embedding sustainability in industrial developments and employment lands.

For more information contact Jenny Rustemeyer jenny@ecoindustrial.ca

Upcoming Conferences

- Carbon footprint in supply chains workshop, June 6, Berkeley, CA <http://sites.google.com/site/lcaworkinggroup/conferences-and-workshops/june-6-workshop>
- ISIE 2011 Conference, Berkeley, CA June 7-11, 2011 <http://isie2011.berkeley.edu>
- ECEEE summer study, June 6-11, 2011 Belambra Presqu'île de Giens, France, http://www.eceee.org/summer_study/
- Ecocity World Summit - Montreal 2011, August 22-26, 2011 http://ecocite2011.com/accueil/default_e.asp
- Life Cycle Management 2011, August 28-31, Berlin, Germany, <http://www.lcm2011.org/>

Summer Institute for Sustainability and Energy: The Summer Institute at the University of Illinois at Chicago will educate future decision makers on energy and sustainability through interdisciplinary lectures dealing with “big picture” issues presented at an accessible level. Graduates of the Institute will achieve an overview of the technical challenges and potential solutions, the economic and social barriers to implementation, the policy and planning needed to implement sustainable energy and the entrepreneurship that will deliver innovative energy technologies.

For the span of eight days, August 8-15, 2011, students will be intensely immersed in the Summer Institute. Students will experience a range of activities, including lectures, panel discussions, tours of energy and environmental sites, and group projects addressing energy and sustainability challenges. Topics to be addressed during the week have been broken into themes, including:

- Energy and Sustainability Challenges
- Carbon and Energy Supply
- Energy Delivery
- Economics and Policy
- Entrepreneurship

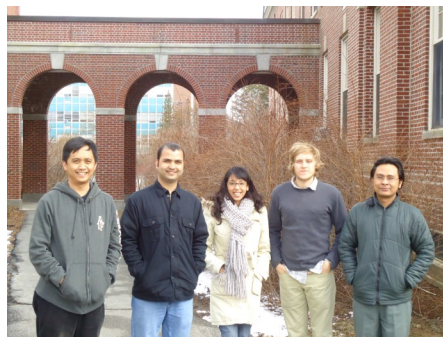
UIC UNIVERSITY OF ILLINOIS AT CHICAGO **SUMMER INSTITUTE ON SUSTAINABILITY AND ENERGY**

For more information and to register please visit the Summer Institute's website: <http://sise.phy.uic.edu/index.php>

IE Research Centers and Programs

Dr. Anthony Halog, an Assistant Professor in Industrial Ecology and LCA at the University of Maine is heading a **new IE research group**. His research group for Industrial Ecology, LCA and Systems Sustainability (IELCASS) at the School of Forest Resources (SFR) have been successful in securing small competitive grants to support the participation of his student in conferences, symposia, training and summer school on life cycle assessment, industrial ecology, and sustainability assessment both nationally and internationally. Together with his students, they had organized a successful Environmental Life Cycle Assessment (LCA) Event at the University of Maine, Orono, April 15, 2011.

Below is a picture of members of Research Group on Industrial Ecology, LCA and Systems Sustainability (IELCASS) at the University of Maine. In this picture (from left to right), Dr. Anthony Halog, Mr. Binod Neupane, Ms. Najet Bichraoui, Mr. Mason Earles, and Mr. Yosef Manik.



New Sustainability Program:

The platform www.sustainabilitystudies.at is designed to bridge scientific and institutional borders and publicize different courses in the field of Sustainability studies in Vienna. Viennese Universities offering manifold possibilities for studying Sustainability from various perspectives within a city, which is renowned for its high standard of living.

Open Positions

PhD fellowship in “Critical resources in future waste flows and emerging energy and material recovery techniques”

The Institute of Chemical Engineering, Biotechnology and Environmental Technology, Faculty of Engineering, University of Southern Denmark is seeking a highly motivated graduate for a ph.d. fellowship within the topic of identifying and recovering critical resources in future waste flows.

For more information, visit http://www.jobs.sdu.dk/vis_stilling.php?id=6459&lang=da

Post-doc/Researcher Position: LCA of energy conversion systems

University of Sao Paulo (USP) is looking for a 6-month post-doc/researcher to work with LCA of energy conversion systems).

For more details please send a message and CV to Sergio Pacca spacca@usp.br

Tenure-track Position, The Environment and Business Program in the School of Environment, Enterprise and Development (SEED) University of Waterloo

Open tenured or tenure-track position at the Associate or Assistant Professor level in areas that support integrating business, policy and development activities with environmental and social objectives of sustainable development. Individuals with degrees in business, economics, environmental studies, geography, international development, management, or public policy are encouraged to apply. Preferred candidates will have expertise and experience in one or more of the following teaching and research areas of interest: corporate social responsibility, stakeholder engagement, organisational change, environmental management, green marketing, carbon management. The preferred start date for the position is September 1, 2011. for more information, please contact Neil Craik, Director, School of Environment, Enterprise and Development, ncraik@uwaterloo.ca

Postdoctoral Research Fellow in Energy and Environmental Systems Modeling

Applications are invited for a full-time Postdoctoral Research Fellow in Energy and Environmental Systems Modeling to contribute to the design and implementation of life cycle assessment (LCA) tools to evaluate oil sands technologies. This position is part of a collaborative project on LCA of oil sands technologies and is jointly hosted by research groups at the University of Calgary and the University of Toronto.

The candidate will conduct research on the life cycle implications of various greenhouse gas mitigation strategies that could be applied in the development of Alberta’s oil sands. In addition to research responsibilities, the candidate will take a leadership role on the project (e.g., providing guidance and support to graduate and undergraduate students, coordinate research meetings).

Applicants should send a cover letter, detailed CV, one page statement of research experience and interests and names and contact information of three references to Professor Heather MacLean (heatherl.macleam@utoronto.ca).

The review of applications will begin on February 28, 2011 and will continue until the position is filled.

Additional Job Postings and Research Opportunities are Posted at: <http://www.is4ie.org/jobs>

Publications

Dr. Anthony Halog, an Assistant Professor in Industrial Ecology and LCA at the University of Maine, has recently published an open-access article in Sustainability with title *Advancing Integrated Systems Modeling Framework for Life Cycle Sustainability Assessment*. A copy of this article can be freely downloaded at <http://www.mdpi.com/2071-1050/3/2/469/>. He has received the prestigious Organization for Economic Cooperation Development (OECD) Research Fellowship to conduct his research project on sustainable forest bioenergy in Finnish Forest Research Institute this summer 2011.

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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.

ISIE Newsletter Schedule

| <u>Publication Date</u> | <u>Submission Date</u> |
|-------------------------|------------------------|
| July 30, 2011 | July 10, 2011 |
| October 30, 2011 | September 15, 2011 |

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 five topical sections.

- Material Flow Analysis - ConAccount
- Eco-Industrial Development
- Environmentally Extended input Output
- ***NEW*** Sustainable Urban Systems
- ***NEW*** Organizing Sustainable Consumption and Production

Information about each section can be found at <http://www.is4ie.org/sections>. 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.
