

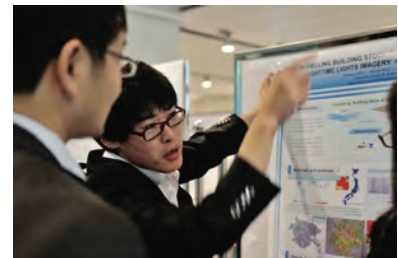


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Hello ISIE Young Professionals!

Welcome to our second biannual newsletter and last for 2012! We say a big thank you and goodbye to past committee members and welcome fresh faces onto the board as we continue to build the young professional network and fuel more conversation and collaboration. This newsletter spans time boundaries, reflecting on the significant events of 2012 and looking forward to up and coming excitement for 2013, including the ISIE 2013 conference in Korea! The abstract deadline is open until December 14th and we would love to see as many of you there as possible. Early next year, there will be more information on our young professionals' event (to be held the day after the Ulsan conference). In addition to taking a tour of past networking activity our "around the world" section highlights some of our colleagues' individual research projects. If you have any feedback, ideas or would like to contribute in any way to our next newsletter, please contact us at isiestudentchapter@gmail.com.



Passing the leadership baton

Our three longest serving board members have passed their leadership batons on to three new board additions. We thank the outgoing student chapter leadership Susan Spierre (Clark), Ankit Aggarwal, and Vivian Lee for their collective efforts in bringing together the chapter through illustrious communication and student events. Among these events were the social events at the Gordon and Hull conferences this June and the "Future Faculty" event at ISSST in Boston earlier this May.

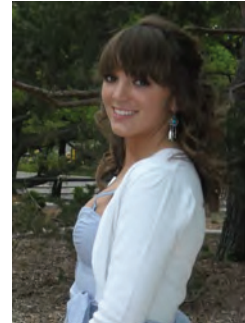
We welcome Claire Antaya (Arizona State University, USA), Prakhar Goel (Erasmus Mundus MIND program), and Xiao Li (Tsinghua University, Beijing, China) as new additions to the board. Together with the remaining senior board

members, many plans focused on 2013 are under development. We look forward to arranging student social events as well as the third Symposium on Industrial Ecology for Young Professionals (SIEYP) in conjunction with the 2013 ISIE Biennial Conference.

More information about the student chapter, including the entire board and their contact information, can be found at <http://www.is4ie.org/students>

Who are the new board members?

My name is Claire Antaya and I'm currently a Ph.D. student at Arizona State University. It was during my exposure to an environmental engineering class when my curiosities towards the interactions between humans and the natural world were first realized. The dynamic balance of our planet makes it a remarkable place to not only live but to study as well. In doing so, we learn that countless parts of our planet change on a daily basis; most changes are often so minute they go unnoticed by the majority of humans. It is only when these changes add up in an adverse manner do humans begin to take notice, when it may already be too late, and where tradition, political outlook and cultural bias stand in the way of effecting meaningful correction on a useful timescale. It was this interest in systems thinking and engineering that quickly brought me to the first chapter of my graduate work. I am committed to advancing industrial ecology and systems thinking in the real world. I am currently serving as the president of ASU's Sustainable and Environmental Engineering graduate student group.



I am Prakhar Goel, a student of Masters in Industrial Ecology through Erasmus Mundus MIND scholarship program funded by European Commission (<http://www.emmind.eu/>). I am currently in the second year in TU Delft and Leiden University, Netherlands after completing one year in University of Graz, Austria. Born in the city of Blackgold- Coal in India with a big thermal power station in neighbourhood, I have closely seen the adverse impact of human intervention to nature. With determination to bring a positive change, I had been working on various projects which have received national and international accolades. I have successfully represented as Indian Youth Delegate at United Nation Framework Convention for Climate Change (UNFCCC) COP15 at Copenhagen, Denmark in 2009. Furthermore I was selected as Young Sustainable Champion for Global Reporting Initiative (GRI) Conference on Sustainability and transparency held in Amsterdam, 2010. These past experiences motivated me to take up Industrial ecology as my master course and I am very passionate towards building over it. My main motivation to join the ISIE student board is to develop the IE student network worldwide and further provide a dynamic platform. I look forward to bring all my experience and network to the ISIE student Board.



I'm Xiao LI from China. I'm a first-year Ph.D. student in the State Environmental Protection Key Laboratory of Eco-industry, School of Environment, Tsinghua University, Beijing, China. I did my undergraduate on Economics at Shandong University, China, and then my master in a two-year Erasmus Mundus Master Program, Environmental Sciences, Policy & Management, which was jointly organized by Lund University (Sweden), Central European University (Hungary), University of Manchester (UK) and University of the Aegean (Greece). This October, I attended the 3rd ISIE Asia-Pacific Meeting, which was held in my university. It was the first time that I met the large group of our ISIE professors and students. We had a nice time together! This definitely makes me feel more stimulated for our ISIE Student Chapter work. I look forward very much to meeting more of you in future!



Around the World

We would love to hear from you!!

Below are some short introductions to other chapter members and what they are doing. This can also be an opportunity for you to tell the student chapter about your work, gain feedback or make links with others working in a similar field. Please send us your short piece and we will try to feature it in the next newsletter. / ISIE: Student Chapter Board

Israel: Interdisciplinary academic round tables on "sustainable society"

Mali Nevo, Tel-Aviv University -
malinevo@post.tau.ac.il



The idea for roundtables grew out of Mali's current Ph.D studies on co-evolutionary processes in the development of the cleantech industry in Israel and also from her work as an academic coordinator in the management program for welfare departments and social organizations managers.

She initiated a collaborative interdisciplinary academic mechanism in the format of inter-faculty round tables in order to promote and enrich our

knowledge and perspective on sustainable society while reducing the gaps that exist between different disciplines and creating new innovative and holistic knowledge. Each meeting is devoted to a specific topic and hosted at another school of the university.

The people who participate in those meetings engage and interest in various aspects of sustainability both from theoretical and practical approaches. The information gathered is documented and distributed to the participants and published freely over the internet. So far two meetings have already been held; the last one took place during the "Rio+20" conference. This meeting was hosted at the Recanati Business School of Tel Aviv University and was devoted to the ways to develop a social financial market. In the next academic year more meetings are planned.

India: Feasibility Study of using rice husk ash from rice mills in Tumkur District, Bangalore

Sandipan Sarangi,
TERI University, New Delhi, India
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Managing Industrial Waste has become a major challenge today. It involves a considerable amount of Investment and manpower which makes it a predicament for small businesses. However, the principle of industrial ecology states that every substance has a special value attached to it at some level; in that sense waste is a resource.

Industrial symbiosis works on the principle that waste of one industry can be a potential resource for another industry. Rice husk Ash (RHA) is a major product of rice mills and can create a lot of nuisance if not managed properly. Our study tried to identify potential industries which would not only accept the ash but also treat it as a resource in an arrangement which would bring value to both stakeholders.

We tried to compare various potential partners like Cement Industries, Brick Manufacturers etc. to find the appropriate one in context of Tumkur, Karnataka, South India. We also focussed on identifying barriers associated with each partner and devise methods to remove them. Our study identified cement industries as the most viable options for use of rice husk ash. Rice husk because of its high silica content can serve as an input for the production of Pozzolanic Portland Cement.

Brazil /Norway: Wind Energy & Sustainable Development in Brazil - Estimating Job Creation Through an Extended Input-Output Approach

construction and O&M, and indirect jobs created in the Brazilian economy by the demand of inputs. She used a model that integrated life cycle assessment and input-output model, resulting in disaggregated employment data through the life cycle of wind farms

Moana Simas, University of São Paulo
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The adoption of incentive policies for renewable energy, especially those based on subsidies, has led to the discussion of social and environmental benefits brought by these technologies, focusing efforts on the assessment of the impacts on employment levels. Wind power in Brazil has grown in a slow pace for over a decade. However, in the last three years the projects contracted should increase wind power installed capacity in fivefold in only five years. This rapid estimated growth demands the assessment of impacts in the employment level.

Moana's MSc thesis aimed to quantify the potential for job creation in wind energy in Brazil, accounting for direct jobs in manufacturing,

in Brazil. The results show that wind energy can create over 300,000 job-years until 2020. Major contribution is found to be in the construction stage, which also has high potential to create local jobs in several rural areas. Other social and economic benefits can be seen throughout wind energy's life cycle, such as service demand during construction stage, which can increase income in poor rural regions; land rental and compatibility of diverse land use; new job and income opportunities in rural areas, which can reduce emigration and pressure in cities; and capacity building. Thus, wind energy can play an important role on local and regional economic development, especially in Northeastern Brazil.

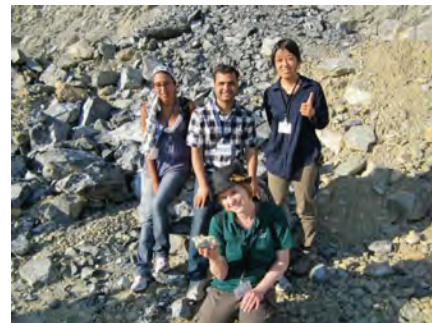
Moana Simas currently works as a research assistant for the Industrial Ecology Programme at the Norwegian University of Science and Technology. She submitted her MSc thesis in the Energy Graduate Program, at the University of Sao Paulo, in the first semester of 2012, funded by a two-year scholarship from CAPES. You can contact Moana at moana.s.simas@ntnu.no.

Summer Schools in Japan & Germany

Doctoral Students of Dr. Anthony Halog
Participated in Sustainability Science Related
Summer Schools in Germany and Japan

Mr. Binod Neupane and Ms. Najet Bichraoui, two doctoral advisees of Dr. Anthony Halog at the University of Maine, had been competitively selected to participate the Summer School on "Sustainability for Coupled Human and Natural Systems" organized by GCOE-INeT, Hokkaido University, Japan, June 23 -July 3, 2012. Binod presented a research project on 'Integrated Research Framework for Quantitative Sustainability Assessment of Biofuels Supply Chain'. Najet presented work on "Agent-Based Modeling of an Industrial Ecosystem". Binod and Najet were two of the ten international PhD student awardees to attend this competitive program. They were joined by ten other competitively selected Japanese PhD students to learn field work, social system and analytical methods with relevance to understanding coupled human and nature in view of developing a sustainable society under changing global economy and environment.

In Germany, Mr. Nana Bortsie-Aryee, another PhD advisee of Dr. Halog was competitively selected to participate in the 2012 Global Sustainability Summer School held at the Institute of Advanced Sustainability Studies (IASS) and the Potsdam Institute for Climate Impact Research (PIK), July 8-21, Potsdam, Germany. The Robert



Binod and Najet with other Participants at the GCOE-INeT, Hokkaido University, Japan

Moreover, at the 18th Annual Meeting of North Atlantic Chapter for the Society for Environmental Toxicology and Chemistry, June 6-8, 2012, Rhode Island, Binod Neupane was unanimously selected to win the Best NAC/SETAC Poster Award for our work on "Accounting the Role of Ecological goods and Services for Wood-derived Bioethanol Production".

Bosch Stiftung funded the two-week program. Participants consisted of young professionals working in universities, governmental and non-governmental organizations from different countries in the field of industrial ecology, sustainability and climate change. The central theme of discussion was Risk, Uncertainty and Extreme Events –



Nana with other Participants at 2012 Global Sustainability Summer School, July 8-21, Potsdam, Germany

Characteristics of Human-Environment Interactions. The highlights of the summer school included lectures on the theory of complex systems, which features prominently topics on industrial ecology and considers the various interrelationships that exist between components of any industrial ecosystem. The summer school ended with the consensus to continue working together over the next few years to create high standards of research through collaborative networks.

Past Events/Conferences

ISIE Future Faculty Forum at the ISSST Conference May, 2012

Susan Spierre (Clark), PhD student at Arizona State University

At the International Symposium Sustainable Systems and Technology (ISSST) conference last May, your student chapter board hosted a professional development session entitled, ISIE Future Faculty Forum. It was a free event for attendees of the conference and focused on providing information that is particularly relevant for graduate students in nontraditional and interdisciplinary fields. The session featured a diverse panel of young faculty members that spoke about their experience transitioning from being a graduate student to a becoming a professional faculty member. Panelists include Dr. Michael Chester from Arizona State, Dr. Matthew Eckelman from Northeastern, Dr. Gabrielle Gaustad from Rochester Institute of Technology, and Dr. Caitlyn Butler from University of Massachusetts Amherst. We had about 30 students and faculty members attend the event. Topics of discussion ranged from advice on preparing for the job search to career and life balance strategies. Information about the ISIE student chapter was also provided to gain participating from students not already involved in the organization. Look for upcoming announcements on other student chapter events in newsletters of online via linked-in and Facebook. See more details about the upcoming ISSST event at <http://issst2013.wordpress.com/>

The Industrial Ecology Gordon Research Seminar and the Industrial Ecology Gordon Research Conference June 15th-22nd, 2012, in Les Diablerets, Switzerland

Rafael Laurenti, PhD student at Industrial Ecology, ITM, KTH

I travelled to the Industrial Ecology Gordon Research Seminar and to the Industrial Ecology Gordon Research Conference from June 15th-22nd, 2012, in Les Diablerets, Switzerland. There were both seminars and poster presentations about many developing research projects. The Seminar was held in the first two days and was aimed at PhD students. There were around 50 participants who had the opportunity to present and discuss in great depth their own research to one another.

During the Industrial Ecology Gordon Research Conference state-of-the-art unpublished research was presented by many important senior researchers in the field. The conference provided opportunity for me to listen to great senior's talks and to get advice from them concerning my research project. Moreover, in the conference I met research fellows and professors from nearby Swedish Universities researching similar topics as my division at

KTH. It was a very rich experience.

The 18th Annual International Sustainable Development Research
Conference (ISDRC)
June 24-26th, 2012, in University of Hull, UK

Rafael Laurenti, PhD student at Industrial Ecology, ITM, KTH

I attended in the 18th Annual International Sustainable Development Research Conference (ISDRC), held June 24-26th, 2012, organized by University of Hull, UK. Over 200 were in attendance from all continents.

The conference was held just after the Rio+20. Some researchers who attended Rio+20 gave talks about the challenges discussed in Rio and their perspective on how the event went. Their opinions varied, where some of them were positive while others were not so positive.

ISDRC 19 will be hosted by the University of Stellenbosch, South Africa 1-3 July 2013 see <http://www.isdrc19.co.za/>

Smart and Sustainable Built Environments (SASBE)
June 27th -29th, 2012, in São Paulo, Brazil

Cassandra L. Thiel

SASBE2012 was the fourth in a global conference series hosted by the International Council for Research and Innovation in Building Construction (CIB) Work Commission 116, a group which aims to “promote international research, application, and education in the field of integrated development of smart and sustainable built environments” (<http://www.cibw116.org/>). This year’s conference was held in São Paulo, Brazil June 27-29 through the collaboration of the University of Campinas (UNICAMP), the Federal University of Espírito Santo (UFES), and SindoCon-SP. With 162 attendees from 26 countries, the conference was an intimate look at improving the environmental sustainability of the global built environment.

Claude Ouimet of Interface Flooring opened the conference with a presentation on the culture and emotion within a company and the importance of transparency and awareness in supply chains. Wim Bakens of CIB followed with a talk on maintaining the relevance and positive perception of the construction industry in a maturing world. Bakens claimed the aims of a construction firm should be fair profit and creating a value to society rather than some of the existing paradigms focused on temporary monetary profits.

The conference also included keynote addresses from Ilker Adiguzel of the US Army Construction Engineering Research Laboratory (CERL), Andy van den Dobbelaars of Delft University of Technology, Ron Zimmer of the Continental Automated Buildings Association (CABA), Chrisna du Plessis of the University of Pretoria, and Tian Feng of the San Francisco Bay Area Rapid Transit (BART) in California. Serge Salat of the Urban Morphology Lab spoke of his research identifying and measuring indicators of sustainability in various cities to create an urban planning and design aid. Parallel sessions included research on topics such as material cycles, management/procurement, building design, and urban sustainability.

The next SASBE conference will be held in 2015 in South Africa.

Special thanks to Vanessa Gomes and Maristela da Silva for providing information on SASBE2012.

The Third ISIE Asia-Pacific Meeting
Oct. 20th-21st, 2012, in Beijing, China

Xiao Li, Ph.D. student at School of Environment, Tsinghua

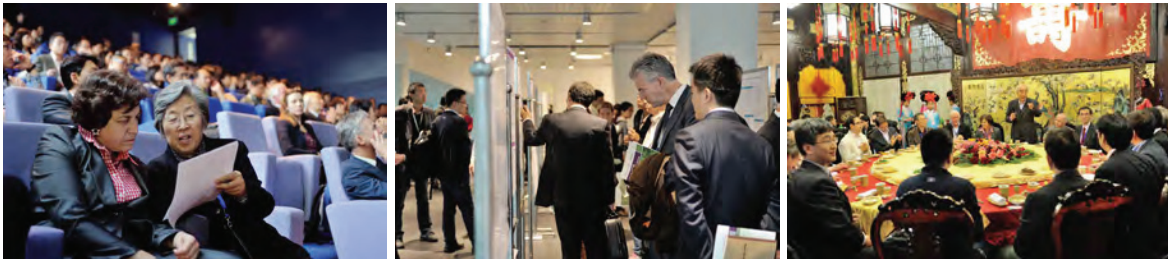
The 3rd ISIE Asia-Pacific Meeting with the theme of “Asia-Pacific toward Eco-

Industrial Development” was held at School of Environment, Tsinghua University, China this October. It was jointly organized by Tsinghua University (China), National Institute for Environmental Studies (Japan) and University of Ulsan (Korea).

The event was opened by two welcome speeches from Prof. Jining Chen, President of Tsinghua, and Prof. Marian Chertow, President-elect of ISIE. A total of 190 participants from 15 countries and regions joined the meeting. Six keynote speeches were given by Prof. Thomas Graedel, Prof. Yuichi Moriguchi, Prof. Marian Chertow, Prof. Hung-Suck Park, Prof. Gjal Huppel and Prof. Zhongwu Lu. 62 oral presentations were made across nine different panel topics, and 34 posters were presented. Three student sessions were held on the topics of MFA, EID and PIP.

Very remarkably, 88 students joined the meeting, and took an active part in making presentations, raising questions and having discussions with industrial ecology professionals across the world. As highlighted by Prof. Han Shi in his concluding remarks for the meeting, “The ISIE Asia-Pacific Meetings can contribute to realizing the imperative but challenging goal, in particular by nurturing the development of the next-generation industrial ecologists.”

The participants also had the chance to enjoy some nice social activities during the intensive two-day program, including a banquet held in the very unique and glamorous environment of the Summer Palace.



Upcoming Events/Conferences

- **ISIE 2013 South Korea**

June 25-28, 2013 Ulsan, South Korea

<http://is4ie.org/isieulsan>

Abstract Submission deadline: Dec. 14, 2012

- **The Symposium on Industrial Ecology for Young Professionals (SIEYP III)**

The ISIE Student Chapter is pleased to announce the third Symposium on Industrial Ecology for Young Professionals (SIEYP III). 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. In particular, the event will enable young professionals to establish a network of IE researchers for ongoing exchange and future collaborations.

The symposium, held at the University of Ulsan, South Korea on June, 2013 immediately follows the International Society for Industrial Ecology conference (ISIE ULSAN 2013) at the same location. The symposium is free of charge.

More information coming soon!

- **Online Events List**

See a constantly updated list of relevant events on the ISIE webpage (Currently over 20 upcoming events listed!)

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

Did You Know?

Did you know you can find dissertation information of ISIE members in the dissertation database on our homepage? <http://www.is4ie.org/dissertation>

Is your dissertation not in the mix? Please add your dissertation to the dissertation database <http://www.is4ie.org/dissertationadd>

Finishing your student life soon?

You can check out the ISIE job listings at <http://www.is4ie.org/jobs>

And also the young professional memberships to the ISIE at <http://is4ie.org/join>

Got News?

If you have any news, events, success stories, and/or projects being done by students that you would like to share with us, please contact us.

As always, please keep us updated with potential funding information, student news, student research opportunities, and other announcements to the student chapter at isiestudentchapter@gmail.com

More information about the student chapter can be found at <http://www.is4ie.org/students>

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