

# EID/IS Section Newsletter

January-April 2014

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## AWARDS, PUBLICATIONS AND PRESENTATIONS

### Eco-Innovation Parks

The **International survey on eco-innovation parks: Learning from experiences on the spatial dimension of eco-innovation** was recently published. Read more [here](#).

### JIE Article

Volume 18, Issue 1: **Applying Industrial Symbiosis to Smallholder Farms** (pages 145-154), by Jose Alfaro and Shelle Miller. Article first published online: 25 Nov 2013 | DOI: 10.1111/hiac.12077.

### Horizon 2020

Horizon 2020 offers funding opportunities for Industrial Symbiosis (IS) and Circular Economy (CE) projects. Read more [here](#).

## ECO-Industrial Development And Industrial Symbiosis News From Around The World

### Tangshan Caofeidan, China

"Tangshan Caofeidian Eco-Industrial Park is the strategic cooperation project of China and Japan facing the world development trend in the economic crisis as low carbon economy, energy saving and environmental protection, high technology and circular economy. It has significant influence on the cooperation between China and Japanto construct a sustainable & innovative eco park." A more detailed write up and case study can be found [here](#).

### Geraldton, Western Australia

An EIP Case Study by Geoff Vivan. AN ENGINEER and an environmental scientist have designed an industrial estate using sustainability principles. It is intended for land adjacent to the proposed Oakajee iron ore port, north of Geraldton in WA's Mid West. PhD candidate and sustainability designer David Galloway says the philosophy of industrial ecology embodies two principles: linking industries for mutual benefit, like organisms in an ecosystem; and placing industry benignly within existing bio-geophysical and social systems. He says the first was a challenge, as they did not know which industries would develop over the estate's projected 50-year development. They therefore developed what he describes as "metaphors" to help imagine the requirements of certain types of industry. One such metaphor was "hot, wet and heavy". "An example for that would be most iron ore processing facilities," he says. "They're heavy in the sense that they're moving a lot of heavy material, hot because they involve some type of mineralogical processing, and they're wet because they use a lot of water." They allocated 200 hectares for this purpose, as a worldwide survey of iron ore smelters showed they require this much land. They located "hot wet and heavy" industry near land allocated for a power plant, so heat generated by a smelter could be used to help generate electricity- it would create an opportunity for industrial "symbiosis". They also placed it near the proposed port, to minimise transport costs. While applying the second principle, strategically placing the estate within other systems, they considered Geraldton's future growth. The city is expected to expand northwards, so they planned a sewage plant at the estate's southern boundary, or the northern boundary of the city's planned extent. This could create several options. It could supply a planned water factory that could pipe potable water back to the city or make water available to industry. The water factory could also incorporate a seawater desalination plant. If a sewage plant employs anaerobic treatment technology it would create the opportunity to generate methane gas for use by other industries. Suitable corridors of reserved land, wide enough to accommodate water pipes, electrical cables and gas lines, keeps options for such opportunities open.

## CONFERENCES, WORKSHOPS, COURSES AND OTHER EVENTS

### Symbiosis 2014

Symbiosis 2014, 19-21 June held in Athens, Greece. Read more [here](#).

### NISP Event

St Pauls, London, April 25 Supply Chain: Turn Hidden Cost & Risk into Competitive Advantage.

### US BCSD Meeting

At Yale University, New Haven, CT, USA June 25-26, 2014. **Scale: From Great Projects to Great Impacts**. Check out the [web site](#) for more information.

### SCIECONF 2014

SCIECONF 2014 (June 9-13, 2014) is an International Virtual Conference organized on behalf of Scientific Community. Read more [here](#).

### International

### Conference on Green Chemistry and Sustainable Development

Will be held on July 29-31, 2014 in Barcelona (Spain). Abstracts due April 24, 2014. Check the [website](#).

## LINKED-IN AND IS CASE STUDIES

Check out our [Linked in page](#)

"Part of the exercise that we did was to tell the engineering story that demonstrated it is legitimate and quite do-able," Mr Galloway says. "Engineers, they're fantastic 'machines'. "If you give them a set of 'rails', they're going to 'run' on those rails quite happily."

**New York City, NY USA** "Worldwide Internet, Inc. (OTC Pink: WNTR) announced today that the company has entered into a Letter of Intent with E3 Services and Solutions LLC. [See website.](#)

E3 and Worldwide will work together to develop the E3 Innovations Ecosystem Project that will market E3's "Houston we Have a Solution" partnership. The partnership will provide for eco-friendly solutions for stimulating fuel, food and health alternatives in Smart Eco-cities where environmental, social, & governance is needed. The partnership will also work on research and development projects producing Eco Industrial Parks and Remediation centers. In addition, E3 is working on developing clean water initiatives and technologies that are currently being developed in California."

### USBCSD Update on current projects

US BCSD is currently doing the following:

- Working with the cities of Austin, TX, Denver, CO and Milwaukee, WI to develop by-product synergy projects.
- Working in Hebei Province, PRC, on a circular economy project based on the BPS model.
- Beta testing a new materials marketplace software to be used in US BCSD BPS projects.

### Portland, Oregon

Port of Portland awards two contracts "Eco-Concierge" Study and the EID Marketing Strategy as it further investigates opportunities for applying Eco-Industrial Development Concepts for their holdings.

### UK Banking on Sustainability with Lloyds

Alan Goward, Head of Sustainable Development at Lloyds Bank talks to NISP Network News about the steps it is taking to help its SME customers become more sustainable and how being a member of NISP Network plays an integral part.

"Here at Lloyds Bank we fully understand the importance of sustainability to businesses today but are often asked 'why a bank is involved in promoting sustainability?'. The answer is simple...by encouraging our customers to be more sustainable we help them increase profits and

reduce costs. We see sustainable development as good old-fashioned business planning - saving energy, reducing waste and streamlining manufacturing processes helps our customers' balance sheets to stay healthy. Lloyds has a host of practical and accessible initiatives to support its customers to improve the way they do business AND be sustainable at the same time. Our 'Sustainable Development Team' is dedicated to helping SME customers in particular to become more sustainable, and over the past few years has provided help and guidance to hundreds of businesses.

We also have a UK wide network of Business and Environment Managers, the first bank to offer such dedicated support, who offer commercially relevant and environmentally sound guidance to SME customers. Each manager has been trained on a course accredited by specialists at the University of Cambridge, and are leaders within the financial industry. We also offer a free online REDUCE tool enabling customers (and non-customers alike) to design a bespoke sustainability action plan. The interactive tool provides a structured framework that helps guide businesses through the processes for embedding sustainability practices

## Annual International Conference on Intelligent Materials, Power and Energy (AIMPE14)

Will be held on May 17-18, 2014 in Kuala Lumpur, Malaysia. [Read more here.](#)

## Going Green

We would like to take the opportunity to remind you that the deadline for submitting your abstracts for our Going Green - CARE INNOVATION 2014 Toward a Resource Efficient Economy conference in Vienna at November 17 - 20, 2014 May 31, 2014. Mail abstracts and questions to [info\(at\)care-electronics.net](mailto:info(at)care-electronics.net) or [see the website](#) .

## 2nd Annual International Conference on Geo-Informatics in Resource Management & Sustainable Ecosystem

Held at Eastern Michigan University, October 3-5, 2014. [See website for details.](#)

## Special Volume of Journal of Cleaner Production

Call for Papers to the Special Volume of Journal of Cleaner Production on Towards post fossil carbon societies: regenerative and preventative eco-industrial development. [See call for papers.](#)

## 11th Asia Pacific Roundtable for Sustainable Consumption and Production

businesses through the processes for embedding sustainability practices within everyday operations.

Our 'Sustainability for Business' leaflet provides businesses with ideas, useful information and case studies about why sustainability is important and how it can be achieved. More recently we have introduced a series of nationwide seminars bringing SME customers into direct contact with recognised industry experts at which high profile speakers from such organisations as NISP Network, the Energy Savings Trust and the Eden Project explain why sustainability makes financial sense.

We ensure that Lloyds' customers get the very best help to enable them to meet their sustainable development goals.

#### **Davao, Philippines**

THE Davao Inventors Association Inc. (DIAI) proposed to the City Council the establishment of an incubation center and export zone in January 2014. DIAI president Virgilio M. Sangutan, in a meeting with the city councilors and members of the DIAI at the City Council, said the proposal is now on its final draft and now being readied for first reading in January. The proposal, sponsored by councilor Bonifacio E. Militar, highlights the need to establish a Davao City Business Incubation and Livelihood Development Resource Center (Builder) and the Eco-Industrial Davao Economic Export Zone.

#### **Hinton, Alberta, Canada**

After a five year drought, the City of Hinton sold another parcel in its Innovista Eco Industrial Park this spring to Ever Enterprises for an as yet undisclosed amount. Congratulations to Hinton for staying the course and staying true to the eco industrial park concepts they created for the park.

#### **Edmonton, Alberta Canada**

The city has designed a new sustainable urban community, Blatchford. Blatchford aims to meet all dimensions of sustainable development - social, economic and ecological. Socially, it will promote residents to lead healthy lifestyles, and build a sense of community by offering attractive, welcoming and safe public spaces to convene. Economically, it has been designed as a mixed-use community so there will be 10,000-12,000 jobs on site. The design also balances costs and benefits, offering amenities that contribute to a high quality of life, but while ensuring that the cost of the homes is available for all and not just an exclusive few. Ecologically, it has been designed to reduce our daily impact on the environment by being transit-friendly, walkable, and built to use less resources such as heat, power and water. For more information [go here](#).

#### **NISP Canada launched March 2014!**

The National Industrial Symbiosis Programme (NISP) is all about 'Connecting Industry and Creating Opportunity' for business. It helps companies cut disposal, storage and transport costs and generate sales by adding value to previously under-used or discarded resources. The NISP Network identifies mutually profitable links or synergies between its business members so that under-utilised and under-valued resources from one (materials, energy and water) are recovered and reused elsewhere in the industrial network - creating a truly CIRCULAR ECONOMY! For the past 7 years, NISP has been running successfully in the UK. Now Light House and One Earth are pleased to introduce the National Industrial Symbiosis Programme (NISP) in Canada! This program will be launching across the country in March 2014.

#### **Japan**

May 19-20, 2014,  
Bangkok

#### **International Conference for Production Research**

Aug 2-4, 2015, Manila

#### **Student Prize German Informatics Society**

For the 12th time the Technical Committee "Informatics for Environmental Protection" of the German Informatics Society will award the "Environmental Informatics Prize". [Read more here](#).

#### **Special Issue JIE**

The Journal of Industrial Ecology is pleased to announce a call for papers for a special issue on Environmental Impacts of Demand-Side Technologies and Strategies for Carbon Mitigation. [Read more here](#).

#### **ReUse Conex Conference**

Will be held in Austin, Texas, October 23-25, 2014. [See website for more information](#).

#### **Section conference at 4th ISIE Asia-Pacific Meeting**

Industrial Symbiosis/EID Section of ISIE joins the ISIE Socio-Economic Metabolism section to hold conferences in conjunction with the 4th ISIE Asia-Pacific meeting in Melbourne, Australia November 2014. [Read more here](#).

#### **Call for assistance**

[Call for assistance on](#)

Japanese Machinery Manufacturer Develops Biogas Generation System Powered Largely by Waste Udon Noodles Chiyoda Manufacturing Co., a Japanese construction machinery maker in Kagawa Prefecture, on Shikoku Island, announced on July 31, 2013, the launch of its "udon power generation" equipment that generates electricity using biogas, with the principle element being methane gas extracted from waste udon noodles, a traditional Japanese noodle made from wheat flour. The total annual energy production is expected to be 180,000 kilowatt-hours, enough to power 50 households. [Check out the website.](#)

### Montgomery

Alabama Infinitus Renewable Energy Park at Montgomery will eliminate up to 85 percent of waste headed to the city's landfill - July 17, 2013 (Montgomery, AL) - Ground broke today on a revolutionary Materials Recovery Facility (MRF) developed by Infinitus Energy for the Montgomery, Alabama community that will eliminate up to 85 percent of waste headed to the City's landfill. The Infinitus Renewable Energy Park at Montgomery (IREP at Montgomery), which will be located at 1551 Louisville Street in Montgomery, will be the first facility to combine several of the most technologically advanced systems available for waste recovery to create the most advanced integrated waste recovery facility in the country. "The United States alone produced approximately 250 million

tons of waste in 2010. The exponential increase in waste over time creates a sustainability crisis if we don't dramatically alter the current waste model," said Kyle Mowitz, CEO and founder of Infinitus Energy. "Infinitus Energy is delivering an economical 'big picture' solution to the multiple problems facing our world now and in the future to the City of Montgomery. The Mayor's vision and commitment to our collaboration has made this possible, and we thank him and his capable staff, advisors and consultants in supporting us in our vision for a viable environmental and economical system and for the residents here."

Construction of the 81,992-square-foot facility is expected to be complete and operational by June 30, 2014. Once the facility is operational, residents will place all trash in one city-issued bin, which will be collected by the City of Montgomery sanitation department, and taken to the Advanced Mixed Materials Recovery Facility at the Renewable Energy Park. There it will be separated using the latest in screening, air and optical separation technologies. The system sorts and recovers commodities such as cardboard, mixed paper, metals, aluminum cans, plastics and wood based on density, size, shape and material composition. Additional sorting will be done by hand at the site. The advanced technology allows the facility to accept a larger variety and volume of potentially recyclable products than other recycling methods. "The beauty of this project is that residents don't have to do anything differently. All of the separating takes place at the MRF," said Mayor Todd Strange, "and the 25-year partnership the city has with Infinitus ensures that materials will be recycled." "IREP at Montgomery will provide recovery rates not achievable by single stream recycling programs that rely on residents to sort trash themselves, which addresses the recycling needs of the community without additional capital investment from the city," Mowitz added. The project will significantly reduce the amount of waste in the city's North Montgomery Sanitary Landfill and extend its operational life by many years. The facility can process up to 225,000 tons of waste per year and municipalities and commercial businesses within a 90-mile radius from the facility may also contract to process their waste at IREP to achieve aggressive recycling rates.

"This is a long-term green investment in our city and state. With this

project, Montgomery will be seen as a leader and trendsetter in implementing green technology for the benefit of both our residents and our planet," said Mayor Strange. "Diverting tons of material away from landfills and incinerators and turning those materials into valuable resources generates a host of financial, environmental and societal returns." IREP at Montgomery sits on a 74-plus acre industrial site. The facility is pressurized and all waste is stored inside, thereby not emitting additional odor, contamination or noise to the area. The cost of the materials recovery facility is approximately \$35 Million. The project will create approximately 110 local jobs. "This is another great day for Montgomery as we welcome Infinitus Energy to our growing business community," said Montgomery Area Chamber of Commerce Chairman of the Board Horace Horn Jr. "The cooperative spirit among our elected and

community leaders makes it possible for us to continue bringing new jobs and innovative businesses such as Infinitus Energy to the River Region." The high-tech facility brought together leaders in the recycling and recovery industry from all over the world. Eugene, Oregon-based BHS designed, engineered and is manufacturing and installing the turnkey facility. In-Line Tri-Disc technology from BHS and In-Flight Sorting technology from Nashville-based NRT will provide industry-leading separation efficiency and recovery rates. The facility will also feature air separation technology from global leader Nihot, an Amsterdam company with more than 750 operational reference facilities throughout the world. IREP is currently working with Zero Waste Energy, based in California, to install ZWE's Smartferm technology of anaerobic digesters as Phase II of the project, enabling the system to convert organic waste sorted at the facility into Compressed Natural Gas. "Both populations and per capita waste are increasing and landfills across the world continue to reach capacity. Infinitus Energy has a clear vision of how to turn the challenges of waste disposal into an asset," added Mowitz. "This is leading edge technology that can have a direct impact on the quality of life for residents of the Montgomery community."

### **Tobago**

Cove Eco-Industrial and Business Park at Lowlands, Tobago turned on the largest array of solar street lighting on the island as part of its commitment to providing a greener business environment.

### **Tunisia**

Tunisian Cleaner Production Project: capacity building of the National Cleaner Production Center (NCPC) - Industrial symbiosis and eco-industrial parks development.

Sofies SA provides NCPC experts with special training course on industrial ecology, eco-industrial park management, eco-industrial development, industrial symbiosis, material flow analysis. In addition, tunisian engineers are running field work in two industrial areas to detect inter-firm collaborations (energy, water, material) and improve waste management. The project implemented a first reuse of building material waste (bricks) in the cement manufacturing sector!

## **EID/IS Section of the International Society of Industrial Ecology News**

Section board consists of the following members: Peter Lowitt, FAICP (USA) chair, Shi Han (China), Guillaume Massard (Switzerland), Gemma Cervantes (Mexico), Ines Costa (Portugal), Robin Branson (Australia), Wouter Spaakink is our student representative (Holland), Jaesung Park

wouter Spekkink is our student representative (Netherlands), Jooyoung Park (Korea), and Toyushi Fujita (Japan) are your EID/IS Section board members.

### Call for Centralized Knowledge Sharing Data Base

Sharing information and experiences is at the core of the development of industrial symbiosis. Complete and precise documentation about successful experience is still scarce. The current keen interest for industrial symbiosis by many countries and regions results in the development of a large number of knowledge sharing platforms, website as well as organizations aiming at collecting successful experiences and facilitating the emergence of new projects.

### Other news

The IS/EID section mission includes emphasizing and facilitating knowledge sharing on IS on all five continents. Therefore the section board is willing to contribute to knowledge management by advertising all existing platforms and organizations in order to increase their visibility. If you are running a platform or an organisation related to IS facilitation or aware to such activities in your region, please contact the IS/EID section and inform us about:

- Name and type structure (association, educational institution, public, private, etc.)
- Objectives related to IS development and type of knowledge available
- Geographical focus
- Contact details

The IS/EID section is willing to develop a reference list and to advertise it thus contributing to increase their visibility. IS DATA BASE NEWS: Check out **the WIKI** our IS DATA BASE Committee has created Very impressive work by Graham Aid and his initial team of collaborators (George Lignos, Antonis Korkofigkas; Antonis Kokossis, Chris Davis) who took their idea further during the 7th ISIE Conference in Ulsan through the use of a student Hack-a-thon which further evolved the Wiki. Many of the conference attendees promised to help populate the database of industrial symbiosis exchanges which launched during the conference. Keep the information coming.

## International survey on eco-innovation parks

We would like to inform you that the **International survey on eco-innovation parks: Learning from experiences on the spatial dimension of eco-innovation** was recently published by the Swiss Federal Office for the Environment (FOEN) and the ERA-NET ECO-INNOVERA. This study describes European and non-European industrial parks implementing eco-innovation (technologies, processes and services) or industrial symbioses. More than 160 eco-innovation parks in 27 countries are detailed following a set of eco-criteria. Success factors are identified, lessons learned from best practices are summarized and recommendations are made to support park developers and operators to design and manage industrial parks or urban/industrial mixed areas towards eco-innovation. The publication (PDF format) can be downloaded free of charge **here**. An extended summary of the survey is also available in **German** and in **French**. For further information on the activities of ECO-INNOVERA, please visit **www.eco-innova.eu** or the **website of the Swiss Federal Office for the Environment** for information on eco-innovation parks.

## HORIZON 2020

Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly 80 billion euros of funding available over 7 years (2014 to 2020). It is the financial instrument that implements the initiatives INNOVATION UNION and EUROPE 2020, aimed at securing Europe's competitiveness. Horizon 2020 is open to everyone, with a simple structure that reduces red tape and time so participants can focus on what is really important. This approach makes sure new projects get off the ground quickly -and achieve results faster. The program comprises 6 sections, one of which - "Societal Changes" and sub-section "Climate Action, Environment, Resource Efficiency and Raw Materials" -includes an explicit call for IS and CE under the theme "Waste: A Resource to Recycle, Reuse and Recover Raw Materials". These are:

### **WASTE-1-2014: Moving towards a circular economy through industrial symbiosis**

Proposals should aim to demonstrate and analyse, with a life cycle perspective, innovative processes and services, including organisational and management systems and business models, or a combination thereof, that increase product life-spans, enable product and material reuse, recycling, recovery, with an upgrading cascading approach for recovered materials and products, and reduce generation of waste along product chains in different production processes as well as reduce the utilisation of feedstock materials and the emission of harmful substances. Proposals may also address design for repairability and recyclability, and should either focus on a specific production value chain, or have a cross-sectoral approach establishing industrial symbiosis leading to closed-loop processes, or combine both.

### **Greening the New Industrial Revolution**

From Eco-Business.com (1-6-2014): "Manufacturing industries present society with a dilemma. A healthy manufacturing sector helps an economy to grow, thereby raising living standards -an especially important goal for developing countries. But, as factories try to meet ever-growing consumer demand, they deplete the world's natural resources and pollute the environment. For some, the world now faces a stark choice between rising prosperity and a cleaner, more sustainable environment. In fact, with new technology and fresh thinking, policymakers can strike a durable balance between these competing interests. In developed countries, consumers are increasingly recognizing that, while their material well-being may be higher than ever, their quality of life suffers if the environment is damaged. For poorer countries, such concerns are dismissed as a rich-world luxury. Industrial expansion is the best way to eradicate poverty, and must surely trump environmental concerns. No government, rich or poor, can ignore the imperative to encourage economic growth. The manufacturing sector creates jobs, makes affordable products for cash-strapped consumers, produces vital tax revenue that can be used to support social goals, and brings in foreign currency in the form of export revenue. In short, a well-run manufacturing sector spreads wealth across society. However, trying to satisfy the seemingly endless material demands of consumers at all levels of the economic pyramid has placed an unmanageable burden on the natural world. Resources are being consumed more quickly than the planet can replace them. The manufacturing sector is particularly voracious, devouring over half of all raw materials, around 30 per cent of the world's energy, and 20 per cent of its water. In the process, it produces too much waste for our fragile ecosystems to absorb."

Technological innovation and recyclable inputs can make a huge difference to the way the world produces and consumes. Like the domestic changes

to the way the world produces and consumes. Like the dramatic changes once wrought by mass production, there is similar potential in the development and application of 3D printing, biotechnology, nanotechnology, and other resource-efficient technologies. Now, public opinion is starting to turn against what is increasingly perceived as plunder on a global scale. Policymakers may not be able to compel citizens to ration their consumption. But governments can encourage manufacturers to change how they operate, so that they use fewer resources and eliminate unnecessary waste. Technological innovation and recyclable inputs can make a huge difference to the way the world produces and consumes. Like the dramatic changes once wrought by mass production, there is similar potential in the development and application of 3D printing, biotechnology, nanotechnology, and other resource-efficient technologies. And management thinkers from the late C. K. Prahalad to Jaideep Prabhu have shown how industry can be reconfigured to produce high-quality products cheaply and cleanly. Indeed, these technologies and management ideas amount to something of a new industrial revolution - though one that will be very different from the Industrial Revolution that made Great Britain the dominant world power in the nineteenth century and helped it build a global empire. The current transformation will be more democratic, spreading through global supply chains and modern communications to all countries that are integrated into the global economy. And it will be characterized by partnerships between government, the private sector, and civil society.

Our challenge, and our historic opportunity, is to recognize this potential and find ways for diverse groups to collaborate and realize it. A Green Industry Conference held recently in Guangzhou, China -following similar events in Manila in 2009 and Tokyo in 2011 -provides a template for this kind of broad cooperation. Delegates shared best practices, discussed ways to accelerate change in a range of sectors, and sought innovative solutions to old management problems. No one need be left out of this revolution. Even countries with abundant natural resources do not have to fear the shift to a greener world. By adopting new economic models, their large but finite reserves will not be rendered useless; they will simply last longer. At the same time, countries facing shortages will gain greatly from

being able to reduce their own resource needs. Businesses, too, have been quick to adopt new practices. Many now routinely monitor and report on their environmental impact. Some are even starting to organize around new industrial concepts such as the "circular economy," which focuses on reducing waste through multiple rounds of recycling. This revolution may have been borne out of necessity; but, with ingenuity and cooperation, it will prove to be profitable, over the long run, for countries, manufacturers, and consumers worldwide." *Li Yong is Director General of the United Nations Industrial Development Organization.*

## Symbiosis 2014

Symbiosis 2014, 19-21 June held in Athens, Greece. Authors are invited to submit an extended abstract of maximum 2 pages in English, including figures and tables (as MS Word file). The abstracts can be submitted electronically via email no later than 25th April 2014 to [konmoust \(at\) central.ntua.gr](mailto:konmoust@central.ntua.gr).

Abstracts will be accepted based on quality, originality and relevance to the conference themes. All accepted papers will be published as the conference proceedings (CD ROM format), while the best papers after evaluation will be published in a special Issue of **WASTE AND BIOMASS VALORIZATION** in collaboration with the Associate Editor of the journal,

Prof. Gerasimos Lyberatos.

The Conference is organized within the LIFE+ eSYMBIOSIS project (see [www.esymbiosis.eu](http://www.esymbiosis.eu)). We look forward to receiving your paper and we hope to see you actively taking part in the SYMBIOSIS 2014 Conference. For more details please visit the [conference website](#).

## SCIECONF 2014

SCIECONF 2014 (June 9-13, 2014) is an International Virtual Conference organized on behalf of Scientific Community. This event provides valuable, professional feedback for researchers, student, and practitioners in smart and effective way. This The conference will be held online as virtual conference at [www.scieconf.com](http://www.scieconf.com).

### ESSENTIAL INFORMATION

- All submitted papers will go through at least two evaluation processes:
  1. single-blind peer-to-peer reviewing (at least two reviewers).
  2. single-blind technical check.
- Authors making submission and reviewers will have access to other submissions during the conference dates to review and comment them.
- All accepted papers will be published in the conference proceedings with ISSN and ISBN
- Published papers will be included into Open Access Online conference Archive
- Authors of the best 20%-25% of the papers presented at the conference will be invited to extend their papers for their publication in International Scientific Journals.
- We cover full conference service.
- Conference proceedings of SCIECONF 2014 will be sent for evaluation into major indexing and abstracting databases.

## Annual International Conference on Intelligent Materials, Power and Energy (AIMPE14)

Annual International Conference on Intelligent Materials, Power and Energy (AIMPE14) will be held on May 17-18, 2014 in Kuala Lumpur, Malaysia. AIMPE14 is organized to be a major annual international conference of IAMR bringing together researchers, academicians from all over the world to participate. The main direction of AIMPE14 is Intelligent Materials, Power and Energy field, including Intelligent Materials, Mechatronics and Automation, Manufacturing Technology and Processing, Energy System and other related topics. The focus of AIMPE14 is to establish an influential and effective platform for institutions and industries to share new ideas and application experiences and to present the works of scientists, engineers and students from all over the world. Check the website [here](#).

## Student Prize German Informatics Society

For the 12th time the Technical Committee "Informatics for Environmental Protection" of the German Informatics Society will award the "Environmental Informatics Prize". The prize is awarded for students' works in the field of environmental informatics. Such work takes the form of projects undertaken either as part of a course or for a degree (excluding PhD) at an academic university or a university of applied sciences. The

projects must demonstrate the contribution of methods and technologies of informatics to the solution of environmental problems or dissemination of information supporting sustainable development in general. Deadline is May 31, 2014. The winners will be invited to present their work at EnviroInfo 2014 - ICT for energy efficiency, the 28th International Conference on Informatics for Environmental Protection to be held in Oldenburg, Germany. [Check the website.](#)

## Special Issue Journal of Industrial Ecology

The Journal of Industrial Ecology is pleased to announce a call for papers for a special issue on Environmental Impacts of Demand-Side Technologies and Strategies for Carbon Mitigation. [See the full call for papers.](#) Strategies to reduce the emission of greenhouse (GHG) gases include supply and demand side approaches. The focus of this special issue is on the demand side approaches. Most research focuses on the

efficacy and cost of these technologies and strategies in reducing GHG emissions. These strategies, however, also have non-GHG environmental impacts on air and water quality, on human and ecosystem health as well as natural resource impacts. Research on these non-GHG impacts is less developed than that which examines carbon mitigation. This is especially true for demand-side strategies which focus on improvements in energy and material efficiency.

## Section conferences at 4th ISIE Asia-Pacific meeting

The Industrial Symbiosis/EID Section of ISIE joins the ISIE Socio-Economic Metabolism section to hold conferences in conjunction with the 4th ISIE Asia-Pacific meeting in Melbourne, Australia November 2014. The Socio-Economic Metabolism section will be held from 17 to 19 November 2014 at the Melbourne Convention Centre in Melbourne, Australia. The conference will be organized by the CSIRO and will be hosted jointly with the 4th ISIE Asia-Pacific meeting and 11th Industrial Symbiosis Research Symbiosis organized by section Board member Robin Branson and Dr. Biji Kurup. Robin and Biji are looking for help in organizing the program.

The 11th ISRS will be held after the 4th Asian Pacific meeting. Robin is attempting to cross-fertilize with the Australian Industrial Ecology Conference which is being held concurrently with the Asia Pacific meeting. He reports "The A-P will take place at the Melbourne Convention Centre between Monday 17 November and Wednesday 19 November 2014. There will be at least one session in A-P devoted to IS, probably involving one or more presentations on what is happening in Australia.

The Australasian Industrial Ecology Network (AIEN) is a working group of the Waste Management Association of Australia, with a specific focus on applied (practical) IS in Australia. AIEN holds annual conferences, attended by practitioners, company managers involved with IS, Government representatives and some academics. AIEN will be holding its annual conference in Melbourne in 2014 and could arrange to hold it at the MCC on the same dates as A-P." At this point Mr. Branson is seeking to have the ISRS following the close of the Asia Pacific event in Sydney, a short plane flight (90-150 AUS\$) away from Melbourne. At this point the theme for the 11th ISRS symposium will be "outreach and the interface between academia, government and practice." Contact Robin and Biji if

you wish to participate in developing the symposium. robinbranson at bigpond.com and biji.kurup at enviroengineers.com.au

## IS Data team call for help

Hello EIDC/IS Section Board and Colleagues,

It is great to see a renewal of energy in this topic by the ISIE EIDC section board! Especially since I have been entrusted to head up the working group on the issue along with TU Delft, Athens and Peter Lowitt. Perhaps you heard, our partners at TU Delft successfully raised PhD funding (Student: Ben Zhu) for collaborating on applications to use information collected/linked by the nascent IS repository.

Our desired work is not about re-recording or doing what others in the area have already done in terms of IS data or case study collection. Except in cases where this data is kept proprietary / closed. The work is greatly built upon the shoulders of others' previous work to collect and structure the information for the use of the IS community (i.e. TU Delft's EIP data in the IE Wiki). What we are seeking is funding to take other less directly connectable sources (see "source materials" below) of IS data and allow them to be used from the central repository. If any of you know of other repositories of such information that have been or are being developed around the world - please share!

We see how there may be a seeming conflict of interest between those developing their own closed systems (for commercialization) and our project. However, In the end our project looks to help in providing the first steps for those commercializing services based on open data (including those who wish to supplement their closed systems with our information).

We welcome any donations or leads for funding on project!

More information can be found on [www.isdata.org](http://www.isdata.org) - but to be clear all the objectives on those pages are not the focus of this sub-activity seeking funding. Currently we are only aiming to bump the structured data available through collecting and structuring case studies and IS information from a host of open sources.

Warmest regards and I hope to see many of you in OZ,

Graham Aid

Source materials:

- Academic Literature (Uncovered Studies)
- NISP case studies online
- KIKOX literature
- NIES Japan
- IEWIKI (add resolution to current cases in database)
- EIDC-IS Section members (therefore they could easily add their cases through the entry person)

My suggestions for data points (of course these should be discussed further in the group to weigh benefits and time requirements):

- Industry Codes (NACE)
- Material names and codes (if available - ie EWC)

- Intermediate processes - names - input materials - output materials - costs if available
- Material characteristics (this could be done in collaboration with our Greek colleagues)
- Geo stats x,y
- Names
- Env, Econ, Soc Impacts

ANY FINANCIAL CONTRIBUTIONS WILL BE COORDINATED THROUGH THE EIDC/IS SECTION OF ISIE.