

Parallel Session Program (2014.10.16)

October 28th (Tue.)				
	ROOM A (101)	ROOM B (102)	ROOM C (201)	ROOM D (202)
	<i>Sustainability in the Chemical Industry-1</i>	<i>Tsukuba Special Session</i>	<i>Global Food Security and Corporate Practices from Life Cycle Perspectives -Global Strategies on Agriculture, Food, and Nutrients</i>	<i>Green ICT-1</i>
3-1 13:30-13:50	28A3-1 Decision-support tools for designing sustainable chemical products and processes	See the Tsukuba Special Session program.	28C3-1 Japanese nitrogen footprint model for the prediction of nitrogen loss to the environment Hideaki Shibata Hokkaido University	28D3-1 Analyzing the carbon emissions of cloud computing facilities Kendra Tupper
3-2 13:50-14:10	28A3-2 Development of the risk-based management system for chemicals throughout the supply chain Konrad Hungerbuehler ETH Zurich		28C3-2 Aggregation of biodiversity impacts across international value chains Michael Jäger University of Stuttgart	28D3-2 New key performance indicators for smart sustainable city Minako Hara NTT Energy and Environment Systems Laboratories
3-3 14:10-14:30	28A3-3 Development of the risk-based management system for chemicals throughout the supply chain Satoshi Tokushige Japan Chemical Industry Association		28C3-3 Scientific robustness of including indirect land use change into life cycle assessment Matthias Finkbeiner Technische Universität Berlin	28D3-3 Social impact assessment of ICT services: Case study and tool realization Julien Boisseau Orange Japan
3-4 14:30-14:50	28A3-4 The University of Tokyo		28C3-4 Future perspectives on LCA in agriculture: Lessons from the research in Japan Masanori Saito Tohoku University	28D3-4 Multiple environmental impact assessment method on biodiversity for industry Kazue Ichino Takahashi NTT Energy and Environment Systems Laboratories
Break				
	<i>Sustainability in the Chemical Industry-2</i>	<i>Material Flow Analysis</i>	<i>Global Food Security and Corporate Practices from Life Cycle Perspectives -Evaluating Management Practices</i>	<i>Green ICT-2</i>
4-1 15:10-15:30	28A4-1 The use of LCA as a metrics in advancing and scaling up green chemistry research: The case of black liquor Guido Sonnemann Bordeaux University	28B4-1 Spatial cluster analysis of global metal flows Shigemi Kagawa Kyushu University	28C4-1 Assessing impacts of land use change and management intensification: A life cycle perspective on agricultural production Kiyotada Hayashi National Agriculture and Food Research Organization	28D4-1 Case study on effect of mechanics development of telecommunication product on material efficiency Marc Claude Aubree
4-2 15:30-15:50	28A4-2 Sulphur distribution to products in wet biomass gasification Kenji Koide Tokyo University of Science	28B4-2 Impact of resource-use intensity of goods and services and demand structure on national resource productivity: Time series analysis for 10 countries Arata Ito Ritsumeikan University	28C4-2 Environmental impacts of organic rice farming in Thailand by using life cycle assessment to support policy decision on sustainable agriculture Rattanawan Mungkung Kasetsart University	28D4-2 Five IT thoughts from a waste management proof-of-concept project Yukihisa Yonemochi IBM Research - Tokyo
4-3 15:50-16:10	28A4-3 Estimating reduction of environmental load for resource recovery from plastic waste by LCA methodology and plastic waste processing pathways Akihiro Izumi Plastic Waste Management Institute	28B4-3 Selection of products for remanufacturing based on the designs of end of life products Tetsuo Yamada The University of Electro-Communications	28C4-3 Water footprint assessment of crops cultivation in Kurdistan region, Iraq Marlia Mohd Hanafiah National University of Malaysia	28D4-3 Environmental footprint for IT equipment Takaaki Kumazawa Hitachi, Ltd.
4-4 16:10-16:30	28A4-4 Applying c-LCA for challenges to global warming at Asahi Kasei Corp. Junichi Nakahashi Asahi Kasei Corporation	28B4-4 Mathematical formulation of urban mines design problem Shinsuke Kondoh National Institute of Advanced Industrial Science and Technology	28C4-4 Life cycle assessment of biogas production in small-scale household digesters in Vietnam Van Thi Khanh Vu National Institute of Animal Sciences	28D4-4 Analysis of influence of ICT services including application-service and network-service on CO2 emission Hannoe, shinsuke NTT Energy and Environment Systems Laboratories
Break				
	<i>Estimating the Contribution to Avoided Emissions</i>	<i>e-waste</i>	<i>Global Food Security and Corporate Practices from Life Cycle Perspectives -Resource Management in Agriculture</i>	<i>Driving innovation</i>
5-1 16:50-17:10	28A5-1 Guideline on quantifying and reporting the avoided emissions of products Motozo Yoshikiyo Japan Chemical Industry Association	28B5-1 Sorted collection of used batteries and small home appliances by municipalities Atsushi Terazono National Institute for Environmental Studies	28C5-1 Resource logistics for sustainable management of agricultural nutrients Kazuyo Matsubae Tohoku University	28D5-1 Measuring social impacts of products: The Handbook of the Roundtable for Social Metrics João Fontes
5-2 17:10-17:30	28A5-2 Establishment of Kawasaki mechanism, the certification program of avoided emissions outside Kawasaki city Shoichiro Tsuruta Japan Environmental Management Association for Industry	28B5-2 Life cycle assessment of an automotive lithium-ion battery in large-scale commercial production Hyung Chul Kim Ford Motor Company	28C5-2 Monetary and physically flow analyses on products of agriculture Yuko Oshita Kobe University	28D5-2 Policies promoting ecodesign for energy and resource efficiency in Europe: Experiences, barriers and future options Carl Johan Dalhammar Lund University
5-3 17:30-17:50	28A5-3 Program for assessing the contribution of business activities to avoided emissions in Shiga Prefecture. Maki Ogura Pacific Consultants Co., Ltd.	28B5-3 The impact of demographic change in Japan on supply security footprint of critical metals Yosuke Shigetomi Kyoto University	28C5-3 Evaluation of environmental improvement by introduction of eco-feed Hongqin Yu Nippon Institute of Technology	28D5-3 Reverse flow of knowledge and the development of sustainable energy systems Harald Ernst Otto Polytechnic University of Marche
5-4 17:50-18:10	28A5-4 Neutralize CO2 emissions by product contributions Ryo Yokoyama TDK Corporation	28B5-4 Material flow analysis of heavy metals in contaminated soil: A case study on the polluted sites in Taoyuan County, Taiwan Rong-Hua Li National Taipei University	28C5-4 Uncertainty analysis for greenhouse gas impact of feedstuff in Korea Yoosung Park Aju University	28D5-4 The international diffusion of environmental innovations: Streamlining the dissemination mechanisms across Asian nations Helmut Yabar University of Tsukuba

October 29th (Wed.)					
	ROOM C (201)	ROOM D (202)	ROOM E (303)	ROOM F (405)	ROOM G (406)
	<i>The Practical Challenge for Sustainable Industry - Challenges, Experiences and Lessons</i>	<i>LCA Methodology</i>	<i>Behavior & Policy</i>	<i>Sustainability of Materials and Industries - Evaluation of Urban Mining</i>	<i>Energy-1</i>
1-1	29C1-1 Hitachi's CO2 visualization effort 9:00-9:20 Hitachi, Ltd. Tetsuichi Nomiyama	29D1-1 GreenGDP study based on life cycle impact assessment of refinery sector in Thailand Kasetsart University Kultida Kunanuntakij	29E1-1 A life cycle thinking assessment framework for land reclamation policy in Taiwan National Taipei University Lih-Ren Liu	29F1-1 How much does urban mining reduce the environmental burden? National Institute for Material Science Kohmei Halada	29G1-1 Life cycle inventory of energy technologies: Survey and application to energy scenarios Kyoto University Andrew Chapman
1-2	29C1-2 Challenges to biofuel production enhancing food production: A food and beverage alcohol company perspective 9:20-9:40 Asahi Group Holdings, Ltd. Satoshi Ohara	29D1-2 Fast screening of alternative life cycles and system optimization using flexibly linkable process subsystems Kasetsart University Bernhard Steubing	29E1-2 Constructing a system thinking model for climate policy making based on national GHG inventory National Taipei University Yu-Tsang Lu	29F1-2 Designing strategic urban mining in Japan for criticality mitigation National Institute of Advanced Industrial Science and Technology Hiroki Hatayama	29G1-2 Network theory integrated life cycle assessment for an electric power system Sungkyunkwan University Heetae Kim
1-3	29C1-3 Experience of EPD process certification 9:40-10:00 Politecnico di Milano Lucia Rigamonti	29D1-3 Investigation of the differences between static and probabilistic LCA/LCC results of different floor finishes Fraunhofer IBP Johannes Gantner	29E1-3 Evaluating the change of psychological factors and pro-environmental behaviors through workshop about life cycle thinking and norms The University of Tokyo Eri Aoki	29F1-3 Comparison of end-of-life recycling rates of common metals in Japan The University of Tokyo Ichiro Daigo	29G1-3 Life cycle greenhouse gas emission and land use change impact on compressed natural gas as alternative vehicle fuel in Thailand Kasetsart University Worayut Saibuatrong
1-4	29C1-4 Policy options for LCA deployment in automotive industry 10:00-10:20 Annekatriin Lehmann Technische Universität Berlin	29D1-4 Supporting uncertainty evaluation in prospective assessment of innovations: A case on ecological method in shrimp National Cheng Kung University Heng Yi Teah	29E1-4 People's environmental consciousness in daily activities The University of Tokyo Ai Hiramatsu	29F1-4 Framework and applications of time-series material flow and stock analysis The University of Tokyo Shotaro Nakanishi	29G1-4 Life cycle assessment of biodiesel in Hong Kong The University of Hong Kong Ya Hong Dong
Break					
	<i>The Practical Challenge for Sustainable Industry -Organizational LCA (O-LCA): Concepts and Methodologies</i>	<i>Supply Chain Risk Management</i>	<i>Policy & Visualization</i>	<i>Sustainability of Materials and Industries -State-of-the-Art Research and Developments in Ecomaterials for Low Carbon Society</i>	<i>Energy-2</i>
2-1	29C2-1 A new direction for LCA: Organizational LCA 10:40-11:00 Technische Universität Berlin Matthias Finkbeiner	29D2-1 Development of supply-chain matrix database with IDEA aiming for the application to consequential LCA National Institute of Advanced Industrial Science and Technology Kiyotaka Tahara	29E2-1 Visualizing core structure of international carbon network associated with household consumption Waseda University Yasushi Kondo	29F2-1 Value added material flow analysis of NdFeB magnets in Denmark University of Southern Denmark Komal Habib	29G2-1 Ecological effects from operating a biomass power plant Waseda University Ayu Washizu
2-2	29C2-2 Guidance on organizational LCA by the UNEP/SETAC Life Cycle Initiative 11:00-11:20 Kogakuin University Atsushi Inaba	29D2-2 Resolution of nuclear power plant construction conflicts: Argument of tsunami issues through concept mapping and lifecycle thinking National Taipei University Ting-Fang Hsieh	29E2-2 Life cycle inventory database and its applications to support public policy in Thailand Kasetsart University Thumrongrut - Mungcharoen	29F2-2 Ultra-high temperature materials for higher-efficiency energy conversion of heat engines Tohoku University Kyosuke Yoshimi	29G2-2 Load flexible power plant concepts: A comparative analysis from a life-cycle perspective Karlsruhe Institute of Technology Witold Roger Pogonietz
2-3	29C2-3 Activity to evaluate a positive impact of an organization 11:20-11:40 Fujiitsu Limited Hiroko Ioka	29D2-3 LCA system boundary selection using the industrial clustering analysis Kyushu University Shunsuke Okamoto	29E2-3 Thai CF Pro: A web-based program for evaluating carbon footprint of product National Metal and Materials Technology Center Chantana - Yuvaniyama	29F2-3 Advanced green innovation discovered by self-healing ceramics Yokohama National University Wataru Nakao	29G2-3 An analysis of LCI and fuel cost due to Blue Tower process based on the low power purification system Tokyo University of Science Rui Okhubo
2-4	29C2-4 Proposal for a supplementary calculation method for scope 3 emissions 11:40-12:00 Panasonic Corporation Sachiko Motokie	29D2-4 Assessing climate impact of industrial symbioses: A dynamic approach CIRAD Francois Dumoulin	29E2-4 Visualization of comprehensive environmental impacts Toshiba Corporation Yoshinori Kobayashi	29F2-4 Environmental barrier coating on SiC fiber-reinforced SiC matrix composites for low pressure turbine in jet engine The University of Tokyo Hideki Kakisawa	29G2-4 Small hydro power plants: A modular LCA approach for optimization Technische Universität Darmstadt Beatrix Friederike Becker
Lunch					
	ROOM C (201)	ROOM D (202)	ROOM E (303)	ROOM F (405)	
	<i>The Practical Challenge for Sustainable Industry - Lessons from Application Studies</i>	<i>City & Building</i>	<i>Agriculture & Foods</i>	<i>Sustainability of Materials and Industries -Technologies and Assessments for Recovering Materials from Urban Mining</i>	
3-1	29C3-1 Estimating multiple changes of GHG emissions on mitsubishi electric group's supply chain; category1-possible variation of GHG during use stage 13:30-13:50 Mitsubishi Electric Corporation Chie Uchiyama	29D3-1 Towards a low-carbon future in China's rural residential sector National Institute for Environmental Studies Rui Xing	29E3-1 Life cycle assessment of environmental impacts of crop residue management and manure application in Japanese rice cultivation National Institute for Agro-Environmental Sciences Ai Leon	29F3-1 Minor rare metals concentration from e-waste by combining novel comminution and physical separation Waseda University Shuji Owada	
3-2	29C3-2 What allocation method should be taken to provide the data for SCOPE3 by supplier to customer? An example of the printing company 13:50-14:10 Sun Messe Co., Ltd. Hriomichi Sasaki	29D3-2 Exploring intersection of product lifecycles: GHG emissions associated with vehicles and pavement influenced by pavement maintenance strategies National Cheng Kung University Yasuhiro Fukushima	29E3-2 Total material requirement of food production and related materials in Japan Kyoto University Eiji Yamasue	29F3-2 Metal recovery from urban mines by hydrometallurgical methods National Institute of Advanced Industrial Science and Technology Mikiya Tanaka	
3-3	29C3-3 Water consumption evaluation along the supply chain 14:10-14:30 Asahi Kasei Corporation Junichi Nakahashi	29D3-3 A cradle-to-cradle assessment framework for green building evaluation: Emphases on energy management and resource recovery National Taipei University Chia-Lin Hsu	29E3-3 Land use change related CO2 emissions in the LCA of biofuel-based electrification in Mali KU Leuven Joana Almeida	29F3-3 Development of new processes for precious metals recovery using organic aqua regia The University of Tokyo Yasunari Matsuno	
3-4	29C3-4 Supply-chain environmental assessment for sustainable procurement 14:30-14:50 Shiseido Co., Ltd. Kenji Ohashi	29D3-4 A life cycle assessment of silica sand: Comparing the beneficiation processes The University of Zagreb Anamarija Grbes	29E3-4 Ecoefficiency analysis of integrated and non-integrated crop, forestry and livestock production systems in the Brazilian Cerrado UNESP- Universidade Estadual Paulista Julio de Mesquita Filho Marcela Porto Costa	29F3-4 A recycling system for poly (methyl methacrylate) in Japan The University of Tokyo Yasunori Kikuchi	

October 30th (Thu.)				
	ROOM A (101)	ROOM B (102)	ROOM C (201)	ROOM D (202)
	<i>Sustainable Resource Management-1</i>	<i>Waste Management & Recycling-1</i>	<i>The Practical Challenge for Sustainable Industry -Sustainable value chain management by MFCA</i>	<i>Water-1</i>
1-1 9:00-9:20	30A1-1 Global flow of nickel: Identifying its supply chain and implication for sustainable resource management Kenichi Nakajima National Institute for Environmental Studies	30B1-1 Repercussion effects of final consumption on production and environmental loads using a China-Japan waste input-output table Makiko Tsukui Tokyo International University	30C1-1 Material Flow Cost Accounting: Simple approach, untapped opportunities, upcoming tasks Bernd Wagner University of Augsburg	30D1-1 The significance of land use effects on groundwater resource availability in Japan Masaharu Motoshita National Institute of Advanced Industrial Science and Technology
1-2 9:20-9:40	30A1-2 Sustainability of rare metal supply chains from unconventional resources Glen David Corder The University of Queensland	30B1-2 The implementation of financial incentive on single-use takeout cup source reduction and recycling in Taiwan Chin-Wei Tang Sustainable Environmental Technology and Management Co., Ltd.	30C1-2 Extending raw material input evaluation in the MFCA framework through implementation of criticality assessments Christoph Helbig University of Augsburg	30D1-2 Human health impact models from water use: Comparing to better harmonize Anne-Marie Boulay CIRAIG, Ecole Polytechnique
1-3 9:40-10:00	30A1-3 Refinement of a simulation model to analyze the formation of urban mines with demonstrative experiments Hitoshi Komoto National Institute of Advanced Industrial Science and Technology	30B1-3 Environmental impacts assessment of plastic waste in Thailand Unchalee Suwanmanee Srinakharinwirot University	30C1-3 Cost accounting instruments as components in a material flow analysis tool-chain Martina B. Prox ifu Hamburg GmbH	30D1-3 Functional mapping for sustainable consumption: An example through drinking water consumption Sébastien Michaël René Dente Ritsumeikan University
1-4 10:00-10:20	30A1-4 Quality-oriented end-of-life vehicle scrap recycling aimed at efficient utilization of steel alloying elements Hajime Ohno Tohoku University	30B1-4 Assessing environmental impact of fiber reinforced plastic table top product mixed with non-metallic fraction from printed circuit board waste Sawanya Jareemit Mahidol University	30C1-4 New challenge to develop sustainable value chain management by MFCA information Michiyasu Nakajima Kansai University	30D1-4 Economic water productivity of polylactic acid (PLA) production chain in Thailand Shinatphkorn Pongpinoyap Kasetsart University
Break				
	<i>Sustainable Resource Management-2</i>	<i>Waste Management & Recycling-2</i>	<i>The Practical Challenge for Sustainable Industry -Keys for the breakthrough in business</i>	<i>Water-2</i>
2-1 10:40-11:00	30A2-1 Measuring supply risk footprints of critical metals for Japanese goods and services Keisuke Nansai National Institute for Environmental Studies	30B2-1 WEEE management in Lombardia region (Italy): An LCA-based evaluation Lucia Rigamonti Politecnico di Milano	30C2-1 Integrating LCA into a design innovation method Jeremy Faludi University of California, Berkeley	30D2-1 Environmental life cycle emissions for vegetable oil microemulsion-based biofuels Ampira Charoensaeng Chulalongkorn University
2-2 11:00-11:20	30A2-2 Material flow of cobalt in Taiwan Lu-Yen Chen National United University	30B2-2 Evaluation of environmental effects of recycling of waste from food supply chains using the integrated hybrid analysis Tamon Maruyama The University of Tokyo	30C2-2 Product and organisation environmental footprint: Challenges in theory and practice Annekatriin Lehmann Technische Universität Berlin	30D2-2 Life cycle assessment of biofuels and the issue of indirect land use change Liselotte Schebek Technische Universität Darmstadt
2-3 11:20-11:40	30A2-3 Sustainability and stakeholder interaction in deep ocean mineral resources Benjamin Craig Mclellan Kyoto University	30B2-3 Life cycle assessment of municipal solid waste management towards sustainable development in developing countries: A case study of Hanoi metropolitan city, Vietnam Thanh Trung Hoang University of Tsukuba	30C2-3 20 years of LCA development, have we understood the user needs? Mark Jacob Goedkoop PRé Consultants B.V.	30D2-3 Evaluation of uncertainty in for- and background systems: A case study of municipal wastewater treatment plant Hiroko Yoshida Technical University of Denmark
2-4 11:40-12:00	30A2-4 Indicators for environmental impacts at mine sites -case studies for large-scale underground mines Shinsuke Murakami The University of Tokyo	30B2-4 Climate co-benefit from improving food waste management: A case of small communities in Thailand Amornchai Chalcharoenwattana Chulalongkorn University	discussion	30D2-4 Basin-scale multi-objective optimization of water and wastewater systems considering global and regional impacts Seiya Maki The University of Tokyo