

(As of 15th October, 2010)

The EcoBalance 2010 Tentative Oral Session Program

Room A : Mirai CAN Hall Room B : Innovation Hall Room C : Conference room 2 Room D : Conference room 1 Room E : Conference room 3 *[-] : Special Session

Room A					Room B					Room C					Room D									
9th Nov																								
18:00-20:00 Welcome Party (Room E)																								
10th Nov																								
Opening and Plenary (Room A) Keynote 1 How Should We Shape Our Future? - Beyond Low-Carbon Society Shinji TARUTOKO (A member of the House of Representatives) Keynote 2 Chemical Risk Management Considering Greenhouse Effect Junko NAKANISHI (National Institute of Advanced Industrial Science and Technology)																								
12:00-13:30 Lunch																								
*[-1]					Theory and Practice on Supply Chain Analysis					Resource and Environment in Asia (1)					*[-3]									
Session					Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (1)					Theory and Practice on Supply Chain Analysis					Resource and Environment in Asia (1)					Advances of Knowledge for Assessing Water Resource Use and Consumption in LCA				
13:30-13:50					A1-1330 Invited Coping with Rebound Effects of Biofuel Production in LCA Roland Werner SCHOLZ (ETH Zurich) Switzerland					B1-1330 Environmental Implications of China – Australia Trade: An Assessment of Embodied GHG Emissions, Energy and Pollutants Hao TAN (University of Western Sydney) Australia					C1-1330 Analysis of Energy Consumption Structure in Suzhou, China Haiyan ZHANG (Osaka University) Japan					D1-1330 Invited Life-Cycle Approaches for the Water Footprint of Products: The Balancing Act Between Simple Indicators and Complex Methods Annette KOEHLER (ETH Zurich) Switzerland				
13:50-14:10					A1-1350 Food, Feed, Fuel, Forest or Carbon Sink: Can LCA Provide Guidance on How to Best Use Land? Miguel BRANDÃO (European Commission) Italy					B1-1350 Understanding the Drivers Behind the Changing Carbon Footprint of Services: A Global, Trade-Linked Analysis Jan MINX (Technical University Berlin) Germany					C1-1350 Input-Out Analysis and CO₂ Emission of Construction Sector Associated with Infrastructure Development in China Tao HUANG (Nagoya University) Japan					D1-1350 Input-output Model Based Analysis of Water Consumption and Water Footprint of China 2005 Jing LIU (Waseda University) Japan				
14:10-14:30					A1-1410 Invited Land Use Assessment of Biofuel Feedstock Cultivation in Japan Tabea BECK (University of Stuttgart) Germany					B1-1410 Modeling of an Environmental and Economic Sustainable Business Concept Markus MAU (Alanus University / German Standardization Organization (DIN)) Germany					C1-1410 Analysis of Energy Productivity in China Michinori UWASU (Osaka University) Japan					D1-1410 Damage Assessment of Water Scarcity for Agricultural Use Masaharu MOTOSHITA (National Institute of Advanced Industrial Science and Technology) Japan				
14:30-14:50					A1-1430 A Scenario-Based Assessment of Regional Biomass Utilization Using the Life Cycle Approach: A Case Study on Biorefinery Systems Founded on Sweet Potatoes in Southern Kyushu Susumu UCHIDA (National Agriculture and Food Research Organization Japan) Japan					B1-1430 Structural Path Analysis and Triangularization of Input-Output Table for Understanding Carbon Footprint Yasushi KONDO (Waseda University / Norwegian University of Science and Technology) Norway					C1-1430 Global and Asian Material Flow and Economic Growth Shinichiro FUJIMORI (National Institute for Environmental Studies) Japan					Poster Spotlight Ramon FARRENY (Sostenipira (Icta-Irta-Inèditi)) Young Deuk KIM (Rural Research Institute of KRC) Yuya ONO (Tokyo City University) Francesca VERONES (Eth Zurich)				
14:50-15:10 Break																								
*[-1]					Design for Sustainable Transport					*[-4]					Lifestyle and Consumption									
Session					Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (2)					Design for Sustainable Transport					Decoupling Environmental Impact and Resource Use from Economic Growth in Asia					Lifestyle and Consumption				
15:10-15:30					A1-1510 Invited The Environmental and Social Impacts of Biofuels Production: Total Cost Assessment of Biomass Utilization Trials in Japan Lise LAURIN (EarthShift, LLC) United States					B1-1510 Sustainable Transport in Supply Chain Management Raul CARLSON (Viktoria Institute) Sweden					C1-1510 Greenhouse Gas (GHG) Emissions and Their Characteristics in Asia Based on National GHG Inventories Junko AKAGI (National Institute for Environmental Studies) Japan					D1-1510 Lifestyle and Household Consumption in Nagoya – Toward a Low Carbon Future – Dami MOON (Nagoya University) Japan				
15:30-15:50					A1-1530 Life Cycle Assessment of an Aged Red Wine from a Familiar Cellar in Catalonia, Spain Niklas VON DER ASSEN (Universitat Rovira i Virgili) Spain					B1-1530 Transformational Trucking: Double Efficiency and Sustainable Transport Hiroko KAWAI (Rocky Mountain Institute) United States					C1-1530 Invited Integrated Pathway for Low Carbon and Low Local Air Pollution Kejun JIANG (Energy Research Institute) China					D1-1530 CO₂ Emissions from Consumers' Daily Lives from the Viewpoint of Time Use Tomohiko IHARA (National Institute of Advanced Industrial Science and Technology) Japan				
15:50-16:10					A1-1550 Environmental Evaluation by Means of LCA of a Renewable Material Product: The Natural Cork Stopper Jesus RIVES (SosteniPra: UAB-II-IRTA) Spain					B1-1550 The Role of Motor Vehicle Lifetime Extension in Climate Change Policy Shigemi KAGAWA (Kyushu University) Japan					C1-1550 The Green Economy Mirage ? – Assessing the Potential Environmental Impact of Low-Carbon Growth Strategies in Taiwan Chia-Wei CHAO (National Taiwan University) Taiwan, R.O.C.					D1-1550 Scenario Analysis about LC-GHG Emission of Household Food Consumption Considering Household Characteristics Naoki YOSHIKAWA (Ritsumeikan University) Japan				
16:10-16:30					A1-1610 Invited Development of Ecological Scarcity Japan Rolf FRISCHNECHT (ESU-services Ltd.) Switzerland					B1-1610 Reduction of CO₂ and Cost-Effectiveness Analysis by Future Technology of Automobile Shuichi KANARI (Japan Automobile Research Institute) Japan					C1-1610 Another Role for Renewables: Decoupling Regional Development and Environmental Degradation through Renewable Energy Mobilization William II Young BYUN (Asia Renewables) Singapore					D1-1610 Life Cycle Inventory Analysis about Biogasification of Household Food and Paper Waste Takeshi MATSUDA (Kyoto University) Japan				
16:30-16:50 Break																								



	Room A	Room B	Room C	Room D
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (3)	Life Cycle Thinking on Building	*[S-4] Decoupling Environmental Impact and Resource Use from Economic Growth in Asia	International Trade and Waste Management Issue
16:50-17:10	A1-1650 Non-CO₂ GHG Emission from Natural Processes in Carbon Footprint of Foods Masanori SAITO (Tohoku University) Japan	B1-1650 Case Studies in Lifecycle Building Design Erin E. MOORE (University of Oregon) United States	C1-1650 Resource Efficiency: Economics and Outlook for the Asia-Pacific Region Heinz SCHANDL (CSIRO Sustainable Ecosystems) Australia	D1-1650 Exploring Lead Life Cycle from Inter-Country Trade Masaaki FUSE (National Institute of Advanced Industrial Science and Technology) Japan
17:10-17:30	A1-1710 Sustainable Food Production Johanna TELIEPS (Alanus University) Germany	B1-1710 The Role of LCA in the German Sustainable Building Certification Bastian WITTSTOCK (University of Stuttgart) Germany	C1-1710 Evaluating Industrial Energy Efficiency and Resource Productivity on the Basis of Taiwan Economy-Wide Material Flow Inventory Guan-Lin LU (National Taipei University) Taiwan, R.O.C.	D1-1710 Substance Flow Analysis on the Alloying Elements Associated with Steel Materials Based on WIO MFA Model Hajime OHNO (Tohoku University) Japan
17:30-17:50	A1-1730 Greenhouse Gas Emissions for Calculating Carbon Footprint of Sugar Production: A Case Study in Eastern Thailand Monthira YUTTITHAM (The Joint Graduate School of Energy and Environment) Thailand	B1-1730 Relationship between Urban Infrastructure and Compactness for Chinese Cities Jinling FEI (Nagoya University) Japan	C1-1730 Municipal Waste Banking System in Thailand: Lesson Learned from Sakonnakorn Province Chanathip PHARINO (Chulalongkorn University) Thailand	D1-1730 Exploring the Benefits of Environmental Policy on Innovation and Market Behavior: The Japanese Experience in Dealing with Waste Management Helmut YABAR (University of Tsukuba) Japan
17:50-18:10	A1-1750 Carbon Footprinting of Thai Rice Products: Practical Issues for Harmonised Methodology Rattawan MUNGKUNG (Kasetsart University) Thailand	B1-1750 Ecological Design of Green Roofs for Sustainable Cities C.Y. JIM (The University of Hong Kong) Hong Kong	C1-1750 Structural Properties of Global GHG Emissions and Resource Networks Embedded in Product Supply Chain Keisuke NANSAI (National Institute for Environmental Studies) Japan	D1-1750 Mixed Metal Scrap in Japan and Its Export Control Atsushi TERAZONO (National Institute for Environmental Studies) Japan

11 th Nov.				
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (4)	*[S-7] Applications of LCA to New-technology Innovation (1)	*[S-2] Sustainable Mining from Natural and Urban Reserves (1)	Resource and Environment in Asia (2)
9:00-9:20	A2-0900 Nutrient Recovery of the Effluent of Anaerobic Wastewater Treatment from Swine Farm by Magnesium Ammonium Phosphate Precipitation Sutha KHAODHIAR (Chulalongkorn University) Thailand	B2-0900 Trend Analysis of Factors to Build Material Cycle in Biomass Town Concepts Rokuta INABA (National Institute for Environmental Studies) Japan	C2-0900 Substance Flow Analysis of Zinc Correlated with South Korean Steel Industry Yong Soo JEONG (Tohoku University) Japan	D2-0900 Scenario Analysis on Zinc Recovery from Steel Making Dust in Thailand Romchat CHAIRAKSA (Tohoku University) Japan
9:20-9:40	A2-0920 Assessment of Nitrogen and Phosphorus Distribution from Pig Farming to Bang Pakong Basin, Thailand Wallapa KUPKANCHANAKUL (Mahidol University) Thailand	B2-0920 Klimatre: Wood for a Better Climate and Higher Value Added Products Marco IOTTI (PFI AS) Norway	C2-0920 Substance Flow Analysis of Cadmium in Korea Minjung SON (Konkuk University) Republic of Korea	D2-0920 Survey of Household Waste Generation and Willingness to Separate Waste Collection in Sri Lanka Weranga Madhushan KAHAWE GURUGE (Okayama University) Japan
9:40-10:00	A2-0940 Design-Based Calculation of Life Cycle Inventory (LCI) Data for Fertilizer Production and Comparison of Results to Other LCI Evan M. GRIFFING (Environmental Clarity LLC) United States	B2-0940 Assessing Resource Saving Innovations in the Forest-Based Sector Industries Silke FEIFEL (Karlsruhe Institute of Technology) Germany	C2-0940 Dynamic Modeling of Cadmium Substance Flow with Zinc and Steel in Japan Yasunari MATSUNO (The University of Tokyo) Japan	D2-0940 A Brief Observation on Implementation of Taiwan Corporate Social Responsibility Wang Kun CHEN (Jin-wen University of Science and Technology) Taiwan, R.O.C.
10:00-10:20	A2-1000 Extrapolation of Potential Phosphorus Production into the Future David A. VACCARI (Stevens Institute of Technology) United States	B2-1000 Environmental Impact Assessment in Consideration of Utilization form of Products: An Example of a Paperless Meeting Takafumi NAKAJIMA (Waseda University) Japan	C2-1000 Domestic Material Flow of Zinc and Present Status of EAF Dust Management for Zinc Recovery in Taiwan Hwong-wen MA (National Taiwan University) Taiwan, R.O.C.	D2-1000 Assessment of Potentiality and Social Acceptance of PSF and RWHS in South-West Coastal Region of Bangladesh Sayed Mohammad NAZIM UDDIN (Nagoya University) Japan
10:20-10:40	Break			



	Room A	Room B	Room C	Room D
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (5)	*[S-7] Applications of LCA to New-technology Innovation (2)	*[S-2] Sustainable Mining from Natural and Urban Reserves (2)	New Topics in LCA Database (1)
10:40-11:00	A2-1040 Invited Phosphorus Recycling for Sustainable Agriculture and Industry Hisao OHTAKE (Osaka University) Japan	B2-1040 Life Cycle Assessment of Virtual Meeting Solutions Fredrik GULDBRANDSSON (Ericsson Research) Sweden	10:40-10:50 Sustainable mining from Natural and Urban Reserves Shinsuke MURAKAMI (University of Tokyo) Kenichi NAKAJIMA (National Institute for Environmental Studies) Japan	D2-1040 Lessons from Working in UNEP's Resource Panel Secretariat for Strengthening Resource Efficiency Indicators in LCA Guido SONNEMANN (United Nations Environment Programme) France
11:00-11:20	A2-1100 WIO-MFA on Phosphorus Recovery from the Waste Materials Kazuyo MATSUBAE (Tohoku University) Japan	B2-1100 Environmental Relief Effects of Nanotechnologies by the Example of CNT Composite Materials and Films Arnim Von GLEICH (University of Bremen) Germany	C2-1050 10:50-11:15 Metal Mining: Its Impact to Environment and Approaches to Mitigate Hiroshi SHIMOTORI (Japan Oil, Gas and Metals National Corporation) Japan	D2-1100 Invited e-DEA as a Practical Design for Environment Tool Andreas CROTH (GreenDeltaC) Germany
11:20-11:40	A2-1120 A Critical Review of Advanced Biofuels Life Cycle Analyses Fabio Machado MENTEN (IFP Energies nouvelles) France	B2-1120 Eco-Balance of the Production Phases of Post Combustion CO₂-Capture Technologies – A Comparison Stefanie TROY (Ruhr-University Bochum) Germany	C2-1115 11:15-11:35 A Practical and Rigorous Methodology for Integrating Sustainable Development Principles into Decision-making Processes at Minerals Processing Operations Daniel TUAZON (Sustainable Minerals Institute) Australia	D2-1120 Facilitating a Harmonisation Process Across Product Carbon Footprint Standards and PCR's Mark GOEDKOOOP (PRé Consultants) Netherlands
11:40-12:00	A2-1140 A Well-to-wheel Greenhouse Gases Analysis of Cassava-based Ethanol Fuels in Thailand Seksan PAPONG (National Metal and Materials Technology Center) Thailand	B2-1140 Value Chain Approach to WEEE Management Maria Helena TÖRN (Aalto University) Finland	C2-1135 Invited 11:35-12:00 A Possibility of CRT Recycling in a Lead Smelter from an Environmental Point of View Takashi NAKAMURA (Tohoku University) Japan	D2-1140 Data Network of the International Reference Life Cycle Data System (ILCD) Kirana CHOMKHAMSRU (European Commission, Joint Research Centre) Italy
12:00-13:30	Lunch			
13:30-14:30	Poster Session A			
14:30-14:50	Break			
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (6)	Carbon Resource Management in Energy System	*[S-2] Sustainable Mining from Natural and Urban Reserves (3)	New Topics in LCA Database (2)
14:50-15:10	A2-1450 Invited Sustainable Utilisation of Biomass Resources Using an Integrated Approach Shabbir H. GHEEWALA (Joint Graduate School of Energy and Environment) Thailand	B2-1450 Applicability of Co-Evolutionary Cross-Linkages in Terms of a) Environment-Related Technological Innovations and b) Technology-Related Built-Environmental Re-Designs to LCA Framework Joy SEN (IIT Kharagpur) India	C2-1450 Invited Hybrid Ghoshian Framework for Mapping Industrial Metal Flow Networks: With a Case Study of South Korea Sangwon SUH (University of California in Santa Barbara) United States	D2-1450 The Ecoinvent Database – Linking to the Global Market Bo P. WEIDEMA (ecoinvent) Switzerland
15:10-15:30	A2-1510 An Indication of a Carbon-Footprint of Paprika Due to the Greenhouse Facilities with an Installation of Biomass Energy System Kiyoshi DOWAKI (Tokyo University of Science) Japan	B2-1510 Research on Supply Chain Management of Photovoltaic Industry to Reduce CO₂ Emission in Global Perspective Kotaro KAWAJIRI (National Institute of Advanced Industrial Science and Technology) Japan	C2-1510 The Grade of Materials in Urban Mine in Terms of Total Materials Requirement ~ A Comparison among Electronics, Urban Buildings and Vehicle ~ Eiji YAMASUE (Kyoto University) Japan	D2-1510 Development of Chinese Reference Life Cycle Database (CLCD) Hongtao WANG (Sichuan University) China
15:30-15:50	A2-1530 Environmental Challenges When Developing Renewable Materials to Replace Non-Renewable Materials – Receiving Guidance from LCA Studies Gunilla CLANCY (Chalmers University of Technology) Sweden	B2-1530 A Life Cycle Perspective on Geothermal Heat Pump Systems in Europe Dominik SANER (ETH Zurich) Switzerland	C2-1530 Consequential MFA – A New Approach to Integrate MFA and LCA Laura SCHNEIDER (Technische Universität Berlin) Germany	D2-1530 Life Cycle Inventories for Bioenergy: A German Database for Policy Support Liselotte SCHEBEK (Karlsruher Institut für Technologie, ITAS-ZTS) Germany
15:50-16:10	A2-1550 Life Cycle Assessment of Novel Chemical Production: A Case Study of Biomass-Derived Resin Yasunori KIKUCHI (The University of Tokyo) Japan	B2-1550 Correlation Analysis on CO₂ Emission and Cost of Energy Resources and Life Cycle Assessment Heetae KIM (Sungkyunkwan University) Republic of Korea	C2-1550 Thermodynamic Evaluation for the Controllability on Recovery/Removal of Elements in Some Metallurgical Processes Osamu TAKEDA (Tohoku University) Japan	D2-1550 Method Developed for Simplified Inventory –Data Estimation of Foreign-Made Products Kensuke KOBAYASHI (Tokyo University of Science) Japan
16:10-16:30	Discussion	B2-1610 An Application of LCA to Clarification of CO₂ EOR as a Storage Option for CCS Jitsopa SUEBSIRI (IPAC-CO ₂) Canada	C2-1610 Sustainability Index of Metals Kohmei HALADA (National Institute for Materials Science) Japan	D2-1610 The Quebec National LCI Database Initiative: Database Development without Reinventing the Wheel Pascal LESAGE (CIRAIG) Canada
16:30-16:50	Break			
16:50-17:50	Poster Session B			
18:30-20:30	Banquet at 'GRAND PACIFIC LE DAIBA'			



12 th Nov.				
Room A	Room B	Room C	Room D	
*[S-5] Index and Methods to Assess Socio-economic Impacts and Sustainability	New Topics in LCA Database (3)	*[S-8] Materials for Raising Environmental Consciousness of Consumers and Promoting Environmental Practices of Consumers	*[S-6] International Standardization of Environmental Management Accounting	
10:00-10:20 A3-1000 Invited Towards Life Cycle Sustainability Assessment – Integrating Social and Economic Aspects into Life Cycle Assessment Matthias FINKBEINER (Technische Universite Berlin) Germany	83-1000 LCA Databases 2010 and Beyond – Basis to Improve Products and Services – Martin BAITZ (PE International GmbH) Germany	C3-1000 New Aspects of Ecomaterials Yoshikazu SHINOHARA (National Institute for Materials Science) Japan	D3-1000 Invited The Role of MFCA in Coping with the Challenges of 2020 Bernd WAGNER (University of Augsburg) Germany	
10:20-10:40 A3-1020 A UNEP/SETAC Tool Box for LC Sustainability Assessment of Products Sonia VALDIVIA (United Nations Environment Programme DTIE) France	83-1020 US Activities in Making Life Cycle Inventory Data More Available to Users Mary Ann CURRAN (US Environmental Protection Agency) United States	C3-1020 Invited Eco-Materials Covered from Natural Materials Di ZHANG (Shanghai Jiaotong university) China	D3-1020 The Impacts of MFCA Management to Corporate Financial Performances Michiyasu NAKAJIMA (Kansai University) Japan	
10:40-11:00 A3-1040 Social Life Cycle Assessment of Biodiesel in South Africa: an Initial Assessment Charles MBOHWA (University of Johannesburg) South Africa	83-1040 European Reference Life Cycle Database (ELCD) Marc-Andree WOLF (Joint Research Centre) Italy	C3-1040 Invited Subjects on Fatigue Crack Generation in High Strength Alloys for Long-Life Design Osamu UMEZAWA (Yokohama National University) Japan	D3-1040 MFCA Management in OMRON Toshiaki HARADA (OMRON Co.) Japan	
11:00-11:20 A3-1100 Social Impact Index of ICT Services – Case Study of Videoconferences in Japan And France – Kazue Ichino TAKAHASHI (Nippon Telegraph and Telephone Corporation) Japan	83-1100 Modeling Life Cycle Inventories for Agricultural Production and Biomass Utilization: Development of The NARO LCI Database Kiyotada HAYASHI (National Agriculture and Food Research Organization) Japan	C3-1100 Precise Syntheses and Properties of New Bio-Based Polymers Hideki ABE (RIKEN Biomass Engineering Program) Japan	D3-1100 MFCA Management in Sekisui Chemical Masashi NUMATA (Sekisui Chemical Co., Ltd.) Japan	
11:20-11:40 A3-1120 Value Chain Approach to Management of Commercial and Industrial Waste Johanna Elisa LAAKSONEN (Aalto University) Finland	83-1120 A Real-Field LCA Method Using Ubiquitous Information Engineering Jae-Min CHA (POSTECH) Republic of Korea	C3-1120 Future Use of Wastes and Byproducts in the Cement Industry Seiji HASHIMOTO (National Institute for Environmental Studies) Japan	D3-1120 Design of Experiments to Evaluate the Impact of Sensor Embedded Products on EOL Processing Mehmet Ali ILGIN (Dokuz Eylul University) Turkey	
11:40-12:00 A3-1140 Evaluating Return on Investment in Thermal Insulation for Houses Considering Non-Energy Benefits of Health and Well-Being Rika EGUCHI (Keio University) Japan	83-1140 Development of LCA database based on Japanese Input-Output tables and Its Application to Environmental Management Yoshinori KOBAYASHI (Toshiba Corporation) Japan	C3-1140 Creating a New Industry Network Based on Gassification of Aquaculture Waste: Case Study for a Fishery Town in Hakodate Atsumi FURUYA (Hokkaido University) Japan	D3-1140 International Standardization of MFCA (ISO 14051) Yoshikuni FURUKAWA (Nitto Denko Corporation) Japan	
Lunch				
*[S-7] Applications of LCA to New-technology Innovation (3)	Environmental Education for Life Cycle Thinking	*[S-8] Materials for Raising Environmental Consciousness of Consumers and Promoting Environmental Practices of Consumers	Risk Assessment and Management	
13:30-13:50 A3-1330 Contribution of a Technology Improvement in Greenhouse Gas Emission Reduction Considering Interactions among Corresponding Technologies under Future Circumstances I-Ching CHEN (National Cheng Kung University / The University of Tokyo) Japan	83-1330 Citizen's Consciousness, Perceived Effectiveness and Practice of Environmental Behavior Eri AOKI (The University of Tokyo) Japan	C3-1330 Invited Environmental Impact when Biofuels are Used for Materials Road Transport: A Carbon Footprint Approach Bruno DE BENEDETTI (Politecnico di Torino) Italy	D3-1330 Sustainable Use of Contaminated Land in Taiwan-building a Risk Assessment Foundation and Lesson Learned Hung-The TSAI (Environmental Protection Administrative) Taiwan, R.O.C.	
13:50-14:10 A3-1350 Transition of the Global Material Cycle Induced by the Introduction of Next-Generation Vehicles Hiroki HATAYAMA (The University of Tokyo) Japan	83-1350 Motivation of Japanese Citizens to Utilize International Carbon Crediting and Individual Offsetting: An Experimental Survey Offering an Actual Offsetting Opportunity Hidenori NAKAMURA (Institute for Global Environmental Strategies) Japan	C3-1350 Evaluation of the Global Warming Impact and Water Consumption of Shopping Bags (Plastic, Paper, Cotton): Case Study in Thailand Jitti MUNGKALASIRI (National Metal and Materials Technology Center) Thailand	D3-1350 Decision Support Tool in Design of Metal Cleaning Process Based on Life Cycle and Risk Assessments Hiroki MATOBA (The University of Tokyo) Japan	
14:10-14:30 A3-1410 Batteries Management for Minimization of Electric Vehicles' Environmental Impacts in a Life Cycle Assessment Framework Van Thanh Thuy DANG (Renault) France	83-1410 Biodiesel Production as a Framework for Sustainability and Life Cycle Thinking in an Introductory Engineering Course Johannes STROBEL (Rowan University) United States	C3-1410 Criteria on Metals for Sustainable Materials Management in Type I Eco- Labelling System Ichiro DAIGO (The University of Tokyo) Japan	D3-1410 Risk Trade-Offs between Brominated Flame Retardants and GHG Emissions from Life Cycle Perspective; Toward Sustainable Chemicals Assessment Satoshi MANAGAKI (Yokohama National University) Japan	



	Room A	Room B	Room C	Room D
14:30-14:50	A3-1430 Required Specifications of Plug-in Electric Vehicles for CO₂ Mitigation in Life Cycle Perspective Yuki KUDOH (National Institute of Advanced Industrial Science and Technology) Japan	B3-1430 Socio-Psychological Impacts of the Introduction of PV Systems Hajime NODA (Yokohama National University) Japan	C3-1430 In What Extent Existing Assessment Methods and Eco-Certification of Architectural Materials Can Turn the Construction Industry Green Eirini Renata DIMITROKALI (University of Central Lancashire) United Kingdom	D3-1430 Human Exposure Assessment to Pesticides in Developing Countries: Pesticide Flow Analysis during Handed- And Motor-Pressurized Application Camilo LESMES FABIÁN (University of Graz) Austria
14:50-15:10	A3-1450 Inventory Analysis of CO₂ Emission over the Electric Vehicle Mayumi ISOBE (Nissan Motor Co., LTD.) Japan	B3-1450 Life-Cycle Assessment of Material Recycling Based on Market Substitutability – A Case Study of Pet Bottle Recycling – Jun NAKATANI (The University of Tokyo) Japan	C3-1450 Agricultural Tourism for Eco Balance Pardip Singh SHEHRAWAT (CCS Haryana Agricultural University) India	D3-1450 PAHs Accumulation in the Life Cycle of Corn Shiyong DU (Jinan Environmental Protection Research Institute) China
15:10-16:10	Closing			
16:10-16:50	Farewell Party (Room E)			



(As of 15th October, 2010)

Oral Session

► November 10, 2010

Special Session 1 (Room A) November 10, 2010 13:30-14:50

Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (1)

A1-1330 (Invited) 13:30-13:50
Coping with Rebound Effects of Biofuel Production in LCA
Roland Werner SCHOLZ, Bastien GIROD

A1-1350 13:50-14:10
Food, Feed, Fuel, Forest or Carbon Sink: Can LCA Provide Guidance on How to Best Use Land?
Miguel BRANDÃO

A1-1410 (Invited) 14:10-14:30
Land Use Assessment of Biofuel Feedstock Cultivation in Japan
Tabea BECK, Bastian WITTSTOCK,
Kiyotada HAYASHI, Ulrike BOS, Takeshi OTA,
Susumu UCHIDA

A1-1430 14:30-14:50
A Scenario-based Assessment of Regional Biomass Utilization Using the Life Cycle Approach: A Case Study on Biorefinery Systems Founded on Sweet Potatoes in Southern Kyushu
Susumu UCHIDA, Kiyotada HAYASHI,
Teruo WATANABE, Ryo SUGIURA

Break (20 min.)

Special Session 1 (Room A) November 10, 2010 15:10-16:30

Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (2)

A1-1510 (Invited) 15:10-15:30
The Environmental and Social Impacts of Biofuels Production: Total Cost Assessment of Biomass Utilization Trials in Japan
Lise LAURIN, Kiyotada HAYASHI, Susumu UCHIDA

A1-1530 15:30-15:50
Life Cycle Assessment of an Aged Red Wine from a Familiar Cellar in Catalonia, Spain
Niklas VON DER ASSEN, Montse MENESES

A1-1550 15:50-16:10
Environmental Evaluation by Means of LCA of a Renewable Material Product: The Natural Cork Stopper
Jesus RIVES, Joan RIERADEVALL,
Xavier GABARRELL

A1-1610 (Invited) 16:10-16:30
Development of Ecological Scarcity Japan
Rolf FRISCHKNECHT, Sybille BUESSER,
Kiyotada HAYASHI, Susumu UCHIDA

Break (20 min.)

Special Session 1 (Room A) November 10, 2010 16:50-18:10

Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (3)

A1-1650 16:50-17:10
Non-CO₂ GHG Emission from Natural Processes in Carbon Footprint of Foods
Masanori SAITO

A1-1710 17:10-17:30
Sustainable Food Production
Johanna TELIEPS

A1-1730 17:30-17:50
Greenhouse Gas Emissions for Calculating Carbon Footprint of Sugar Production: A Case Study in Eastern Thailand
Monthira YUTTITHAM

A1-1750 17:50-18:10
Carbon Footprinting of Thai Rice Products: Practical Issues for Harmonised Methodology
Rattanawan MUNGKUNG, Ngamtip POOVARODOM,
Phakaporn TANAPARISUTTI,
Thitikorn CHUPAIROTE

Break (20 min.)

General Session (Room B) November 10, 2010 13:30-14:50

Theory and Practice on Supply Chain Analysis

B1-1330 13:30-13:50
Environmental Implications of China-Australia Trade: An Assessment of Embodied GHG Emissions, Energy and Pollutants
Hao TAN

B1-1350 13:50-14:10
Understanding the Drivers behind the Changing Carbon Footprint of Services: A Global, Trade-linked Analysis
Jan MINX, Baiocchi GIOVANNI, Peters GLEN,
Keisuke NANSAL, Shigemi KAGAWA

B1-1410 14:10-14:30
Modeling of an Environmental and Economic Sustainable Business Concept
Markus MAU, Nicole MAU

B1-1430 14:30-14:50
Structural Path Analysis and Triangularization of Input-output Table for Understanding Carbon Footprint
Yasushi KONDO, Anders Hammer STRØMMAN,
Shigemi KAGAWA

Break (20 min.)

Oral Session

General Session (Room B) November 10, 2010 15:10-16:30

Design for Sustainable Transport

- B1-1510** 15:10-15:30
Sustainable Transport in Supply Chain Management
 Raul CARLSON
- B1-1530** 15:30-15:50
Transformational Trucking: Double Efficiency and Sustainable Transport
 Hiroko KAWAI, Amanda SAHL, Mike SIMPSON
- B1-1550** 15:50-16:10
The Role of Motor Vehicle Lifetime Extension in Climate Change Policy
 Shigemi KAGAWA, Keisuke NANSAI,
 Klaus HUBACEK, Sangwon SUH, Jan MINX,
 Yuki KUDOH, Yasushi KONDO, Tomohiro TASAKI,
 Shinichiro NAKAMURA
- B1-1610** 16:10-16:30
Reduction of CO₂ and Cost-effectiveness Analysis by Future Technology of Automobile
 Shuichi KANARI, Masanobu KII, Shigeru SUEHIRO

Break (20 min.)

General Session (Room B) November 10, 2010 16:50-18:10

Life Cycle Thinking on Building

- B1-1650** 16:50-17:10
Case Studies in Lifecycle Building Design
 Erin E. MOORE
- B1-1710** 17:10-17:30
The Role of LCA in the German Sustainable Building Certification
 Bastian WITTSTOCK, Matthias FISCHER,
 Johannes KREISSIG, Anna BRAUNE, Katrin LOEWE
- B1-1730** 17:30-17:50
Relationship between Urban Infrastructure and Compactness for Chinese Cities
 Jinling FEI, Hiroki TANIKAWA, Tao HUANG,
 Sradhanjali MOHANTY, Hidefumi IMURA
- B1-1750** 17:50-18:10
Ecological Design of Green Roofs for Sustainable Cities
 C. Y. JIM

Break (20 min.)

General Session (Room C) November 10, 2010 13:30-14:50

Resource and Environment in Asia (1)

- C1-1330** 13:30-13:50
Analysis of Energy Consumption Structure in Suzhou, China
 Haiyan ZHANG, Michinori UWASU, Keishiro HARA
- C1-1350** 13:50-14:10
Input-out Analysis and CO₂ Emission of Construction Sector Associated with Infrastructure Development in China
 Tao HUANG, Feng SHI, Hiroki TANIKAWA,
 Jinling FEI, Xin TIAN, Hidefumi IMURA
- C1-1410** 14:10-14:30
Analysis of Energy Productivity in China
 Michinori UWASU, Keishiro HARA, Haiyan ZHANG,
 Helmut YABAR
- C1-1430** 14:30-14:50
Global and Asian Material Flow and Economic Growth
 Shinichiro FUJIMORI, Yuzuru MATSUOKA

Break (20 min.)

Special Session 4 (Room C) November 10, 2010 15:10-16:30

Decoupling Environmental Impact and Resource Use from Economic Growth in Asia (1)

- C1-1510** 15:10-15:30
Greenhouse Gas (GHG) Emissions and Their Characteristics in Asia Based on National GHG Inventories
 Junko AKAGI, Yukihiro NOJIRI, Akihiro TAMAI
- C1-1530 (Invited)** 15:30-15:50
Integrated Pathway for Low Carbon and Low Local Air Pollution
 Kejun JIANG
- C1-1550** 15:50-16:10
The Green Economy Mirage? – Assessing the Potential Environmental Impact of Low-Carbon Growth Strategies in Taiwan
 Chia-Wei CHAO, Hwong-wen MA,
 Ming-Lung HUNG
- C1-1610** 16:10-16:30
Another Role for Renewables: Decoupling Regional Development and Environmental Degradation through Renewable Energy Mobilization
 William Il Young BYUN, Charles FISCHL

Break (20 min.)

Oral Session

Special Session 4 (Room C) November 10, 2010 16:50-18:10

Decoupling Environmental Impact and Resource Use from Economic Growth in Asia (2)

C1-1650 16:50-17:10
Resource Efficiency: Economics and Outlook for the Asia-Pacific Region
Heinz SCHANDL, Graham M. TURNER, Jim WEST, Steve KEEN

C1-1710 17:10-17:30
Evaluating Industrial Energy Efficiency and Resource Productivity on the Basis of Taiwan Economy-wide Material Flow Inventory
Guan-Lin LU, Yuh-Ming LEE

C1-1730 17:30-17:50
Municipal Waste Banking System in Thailand: Lesson Learned from Sakonnakorn Province
Suthira PUANGSIRI, Chanathip PHARINO

C1-1750 17:50-18:10
Structural Properties of Global GHG Emissions and Resource Networks Embedded in Product Supply Chain
Keisuke NANSAI, Shigemi KAGAWA, Yasushi KONDO, Kenichi NAKAJIMA, Sangwon SUH, Rokuta INABA

Special Session 3 (Room D) November 10, 2010 13:30-14:50

Advances of Knowledge for Assessing Water Resource Use and Consumption in LCA

D1-1330 (Invited) 13:30-13:50
Life-Cycle Approaches for the Water Footprint of Products: The Balancing Act between Simple Indicators and Complex Methods
Annette KOEHLER, Stephan PFLSTER

D1-1350 13:50-14:10
Input-output Model Based Analysis of Water Consumption and Water Footprint of China 2005
Jing LIU, Katsuya NAGATA, Hiroshi ONODA

D1-1410 14:10-14:30
Damage Assessment of Water Scarcity for Agricultural Use
Masaharu MOTOSHITA, Norihiro ITSUBO, Yutaka GENCHI, Atsushi INABA

Poster Spotlight 14:30-14:50
Ramon FARRENY, Young Deuk KIM, Yuya ONO, Francesca VERONES

Break (20 min.)

General Session (Room D) November 10, 2010 15:10-16:30

Lifestyle and Consumption

D1-1510 15:10-15:30
Lifestyle and Household Consumption in Nagoya – Toward a Low Carbon Future –
Dami MOON, Hiroki TANIKAWA, Heinz SCHANDL, Liana WILLIAMS, Sonia GRAHAM, Hitomi NAKANISHI

D1-1530 15:30-15:50
CO₂ Emissions from Consumers' Daily Lives from the Viewpoint of Time Use
Tomohiko IHARA, Ryoko MOTOSE, Yuki KUDOH

D1-1550 15:50-16:10
Scenario Analysis about LC-GHG Emission of Household Food Consumption Considering Household Characteristics
Naoki YOSHIKAWA, Koji AMANO, Koji SHIMADA

D1-1610 16:10-16:30
Life Cycle Inventory Analysis about Biogasification of Household Food and Paper Waste
Takeshi MATSUDA, Junya YANO, Yasuhiro HIRAI, Shin-Ichi SAKAI, Kazuo YAMADA, Mamoru OGIUCHI, Hiroaki HORI

General Session (Room D) November 10, 2010 16:50-18:10

International Trade and Waste Management Issue

D1-1650 16:50-17:10
Exploring Lead Life Cycle from Inter-Country Trade
Masaaki FUSE, Kiyotaka TSUNEMI

D1-1710 17:10-17:30
Substance Flow Analysis on the Alloying Elements Associated with Steel Materials Based on WIO MFA Model
Hajime OHNO, Kazuyo MATSUBAE, Kenichi NAKAJIMA, Tetsuya NAGASAKA

D1-1730 17:30-17:50
Exploring the Benefits of Environmental Policy on Innovation and Market Behavior: the Japanese Experience in Dealing with Waste Management
Helmut YABAR, Michinori UWASU, Keishiro HARA

D1-1750 17:50-18:10
Mixed Metal Scrap in Japan and Its Export Control
Atsushi TERAZONO, Aya YOSHIDA

Oral Session

► November 11, 2010

Special Session 1 (Room A) November 11, 2010 9:00-10:20

Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (4)

A2-0900 9:00-9:20
Nutrient Recovery of the Effluent of Anaerobic Wastewater Treatment from Swine Farm by Magnesium Ammonium Phosphate Precipitation
 Sutha KHAODHIAR, Ramnaree NETVICHIAN,
 Ampira CHAROENSAENG

A2-0920 9:20-9:40
Assessment of Nitrogen and Phosphorus Distribution from Pig Farming to Bang Pakong Basin, Thailand
 Wallapa KUPKANCHANAKUL,
 Suphaphat KWONPONGSAGOON

A2-0940 (Invited) 9:40-10:00
Design-based Calculation of Life Cycle Inventory (LCI) Data for Fertilizer Production and Comparison of Results to Other LCI
 Evan M. GRIFFING, Michael OVERCASH,
 Kiyotada HAYASHI, Masaei SATO

A2-1000 (Invited) 10:00-10:20
Extrapolation of Potential Phosphorus Production into the Future
 David A. VACCARI, Nicolay Strigul

Special Session 1 (Room A) November 11, 2010 10:40-12:00

Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (5)

A2-1040 (Invited) 10:40-11:00
Phosphorus Recycling for Sustainable Agriculture and Industry
 Hisao OHTAKE

A2-1100 11:00-10:20
WIO-MFA on Phosphorus Recovery from the Waste Materials
 Kazuyo MATSUBAE, Jun KAJIYAMA,
 Takehito HIRAKI, Tetsuya NAGASAKA

A2-1120 10:20-11:40
A Critical Review of Advanced Biofuels Life Cycle Analyses
 Fabio Machado MENTEN, Anne PRIEUR,
 Jean-François BONNET, Henri BERTIN

A2-1140 11:40-12:00
A Well-to-wheel Greenhouse Gases Analysis of Cassava-based Ethanol Fuels in Thailand
 Seksan PAPONG, Chantima REWLAY-NGOEN,
 Pomthong MALAKUL

Lunch (90 min.)

Poster Session A (Room E)

Core Time 1 (13:30-14:30)

Break (20 min.)

Special Session (Room A) November 11, 2010 14:50-16:30

Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (6)

A2-1450 (Invited) 14:50-15:10
Sustainable Utilisation of Biomass Resources Using an Integrated Approach
 Shabbir H. GHEEWALA

A2-1510 15:10-15:30
An Indication of a Carbon-Footprint of Paprika Due to the Greenhouse Facilities with an Installation of Biomass Energy System
 Kiyoshi DOWAKI, Motoko YAMANARI,
 Yoichiro TAKADA, Jun KAMIHIRATA

A2-1530 15:30-15:50
Environmental Challenges When Developing Renewable Materials to Replace Non-Renewable Materials – Receiving Guidance from LCA Studies
 Gunilla CLANCY, Morgan FRÖLING,
 Magdalena SVANSTRÖM

A2-1550 15:50-16:10
Life Cycle Assessment of Novel Chemical Production: A Case Study of Biomass-derived Resin
 Yasunori KIKUCHI, Kazuya MAYUMI,
 Masahiko HIRAO

Discussion 16:10-16:30

Break (20 min.)

Poster Session B (Room E)

Core Time 2 (16:50-17:50)

Banquet at 'GRAND PACIFIC LE DAIBA'

Special Session (Room B) November 11, 2010 9:00-10:20

Applications of LCA to New-technology Innovation (1)

B2-0900 9:00-9:20
Trend Analysis of Factors to Build Material Cycle in Biomass Town Concepts
 Rokuta INABA, Hidetoshi KURAMOCHI,
 Masahiro OSAKO, Chihiro KAYO, Keisuke NANSAI,
 Seiji HASHIMOTO

B2-0920 9:20-9:40
Klimatre: Wood for a Better Climate and Higher Value Added Products
 Marco IOTTI, Øyvind ERIKSEN,
 Knut Magnus SANDLAND

B2-0940 9:40-10:00
Assessing Resource Saving Innovations in the Forest-Based Sector Industries
 Silke FEIFEL, Liselotte SCHEBEK,
 Witold Roger POGANIETZ



Oral Session

B2-1000 10:00-10:20
Environmental Impact Assessment in Consideration of Utilization form of Products: An Example of a Paperless Meeting
Takafumi NAKAJIMA, Hiroshi ONODA,
Katsuya NAGATA

Break (20 min.)

Special Session (Room B) November 11, 2010 10:40-12:00

Applications of LCA to New-technology Innovation (2)

B2-1040 10:40-11:00
Life Cycle Assessment of Virtual Meeting Solutions
Fredrik GULDBRANDSSON

B2-1100 11:00-11:20
Environmental Relief Effects of Nanotechnologies by the Example of CNT Composite Materials and Films
Arnim von GLEICH, Michael STEINFELDT,
Jose Luis Leon HENKLE, Morinobu ENDO,
Shingo MORIMOTO, Eishi MOMOSAKI

B2-1120 11:20-11:40
Eco-Balance of the Production Phases of Post Combustion CO₂-Capture Technologies – A Comparison
Stefanie TROY, Hermann-Josef WAGNER

B2-1140 11:40-12:00
Value Chain Approach to WEEE Management
Maria Helena TÖRN, Johanna Elisa LAAKSONEN,
Jukka Pekka HEISKANEN, Juha K KAILA

Lunch (90 min.)

Poster Session A (Room E)

Core Time 1 (13:30-14:30)

Break (20 min.)

General Session (Room B) November 11, 2010 14:50-16:30

Carbon Resource Management in Energy System

B2-1450 14:50-15:10
Applicability of Co-evolutionary Cross-linkages in Terms of a) Environment-related Technological Innovations and b) Technology-related Built-environmental Re-designs to LCA Framework
Joy SEN

B2-1510 15:10-15:30
Research on Supply Chain Management of Photovoltaic Industry to Reduce CO₂ Emission in Global Perspective
Kotaro KAWAJIRI, Yutaka GENCHI

B2-1530 15:30-15:50
A Life Cycle Perspective on Geothermal Heat Pump Systems in Europe
Dominik SANER, Ronnie JURASKE,
Markus KÜBERT, Philipp BLUM,
Stefanie HELLWEG, Peter BAYER

B2-1550 15:50-16:10
Correlation Analysis on CO₂ Emission and Cost of Energy Resources and Life Cycle Assessment
Heetae KIM, Eun Chun KIM, Tae Kyu AHN

B2-1610 16:10-16:30
An Application of LCA to Clarification of CO₂ EOR as a Storage Option for CCS
Jitsopa SUEBSIRI, Malcolm WILSON

Break (20 min.)

Poster Session B (Room E)

Core Time 2 (16:50-17:50)

Banquet at 'GRAND PACIFIC LE DAIBA'

Special Session 2 (Room C) November 11, 2010 9:00-10:20

Sustainable Mining from Natural and Urban Reserves (1)

C2-0900 9:00-9:20
Substance Flow Analysis of Zinc Correlated with South Korean Steel Industry
Yong Soo JEONG, Kazuyo MATSUBAE-YOKOYAMA,
Jong-Jin PAK, Tetsuya NAGASAKA

C2-0920 9:20-9:40
Substance Flow Analysis of Cadmium in Korea
Minjung SON, Kyounghoon CHA,
Yasunari MATSUNO, Vasilis M FTHENAKIS,
Tak HUR

C2-0940 9:40-10:00
Dynamic Modeling of Cadmium Substance Flow with Zinc and Steel in Japan
Yasunari MATSUNO, Tak HUR, VASILIS

C2-1000 (Invited) 10:00-10:20
Domestic Material Flow of Zinc and Present Status of EAF Dust Management for Zinc Recovery in Taiwan
Hwong-wen MA, Kazuyo MATSUBAE,
Min-Shing TSAI, Tetsuya NAGASAKA

Break (20 min.)

Oral Session

Special Session 2 (Room C) November 11, 2010 10:40-12:00

Sustainable Mining from Natural and Urban Reserves (2)

10:40-10:50

Sustainable mining from Natural and Urban Reserves

Shinsuke MURAKAMI, Kenichi NAKAJIMA

C2-1050 10:50-11:15

Metal Mining: Its Impact to Environment and Approaches to Mitigate

Hiroshi SHIMOTORI

C2-1115 11:15-11:35

A Practical and Rigorous Methodology for Integrating Sustainable Development Principles into Decision-making Processes at Minerals Processing Operations

Daniel TUAZON

C2-1135 (Invited) 11:35-12:00

A Possibility of CRT Recycling in a Lead Smelter from an Environmental Point of View

Takashi NAKAMURA, Etsuro SHIBATA,
Toshikazu SHIRATORI

Lunch (90 min.)

Poster Session A (Room E)

Core Time 1 (13:30-14:30)

Break (20 min.)

Special Session (Room C) November 11, 2010 14:50-16:30

Sustainable Mining from Natural and Urban Reserves (3)

C2-1450 (Invited) 14:50-15:10

Hybrid Ghoshian Framework for Mapping Industrial Metal Flow Networks: with a Case Study of South Korea

Sangwon SUH, Mi Ji SHIN, Seok Do JANG

C2-1510 15:10-15:30

The Grade of Materials in Urban Mine in Terms of Total Materials Requirement ~ A Comparison Among Electronics, Urban Buildings and Vehicle ~

Eiji YAMASUE, Ryota MINAMINO,
Kazuyo Yokoyama MATSUBAE, Masaaki FUSE,
Hideyuki OKUMURA, Keiichi N ISHIHARA

C2-1530 15:30-15:50

Consequential MFA – A New Approach to Integrate MFA and LCA

Laura SCHNEIDER, Matthias FINKBEINER

C2-1550 15:50-16:10

Thermodynamic Evaluation for the Controllability on Recovery/Removal of Elements in Some Metallurgical Processes

Osamu TAKEDA, Takahiro MIKI, Kenichi NAKAJIMA, Kazuyo MATSUBAE-YOKOYAMA,
Tetsuya NAGASAKA

C2-1610 16:10-16:30

Sustainability Index of Metals

Kohmei HALADA, Nozomu KATAGIRI

Break (20 min.)

Poster Session B (Room E)

Core Time 2 (16:50-17:50)

Banquet at 'GRAND PACIFIC LE DAIBA'

General Session (Room D) November 11, 2010 9:00-10:20

Resource and Environment in Asia (2)

D2-0900 9:00-9:20

Scenario Analysis on Zinc Recovery from Steel Making Dust in Thailand

Romchat CHAIRAKSA, Kazuyo MATSUBAE,
Tetsuya NAGASAKA

D2-0920 9:20-9:40

Survey of Household Waste Generation and Willingness to Separate Waste Collection in Sri Lanka

Weranga Madhushan KAHAWE GURUGE,
Takeshi FUJIWARA

D2-0940 9:40-10:00

A Brief Observation on Implementation of Taiwan Corporate Social Responsibility

Wang Kun CHEN, Charles Yannshi JIANG

D2-1000 10:00-10:20

Assessment of Potentiality and Social Acceptance of PSF and RWHS in South-West Coastal Region of Bangladesh

Sayed Mohammad NAZIM UDDIN,
Uthpal KUMAR, Md Sazzad ANSARI

Break (20 min.)

General Session (Room D) November 11, 2010 10:40-12:00

New Topics in LCA Database (1)

D2-1040 10:40-11:00

Lessons from Working in UNEP's Resource Panel Secretariat for Strengthening Resource Efficiency Indicators in LCA

Guido SONNEMANN, Sonia VALDIVIA

D2-1100 (Invited) 11:00-11:20

e-DEA as a Practical Design for Environment Tool

Andreas CIROTH, Michael SROCKA,
Guillaume JOUANNE

Oral Session

D2-1120 11:20-11:40
Facilitating a Harmonisation Process Across Product Carbon Footprint Standards and PCR's
Mark GOEDKOOP

D2-1140 11:40-12:00
Data Network of the International Reference Life Cycle Data System (ILCD)
Kirana CHOMKHAMSRI, Marc-Andree WOLF,
Rana PANT, David PENNINGTON

Lunch (90 min.)
Poster Session A (Room E)
Core Time 1 (13:30-14:30)
Break (20 min.)

General Session (Room D) November 11, 2010 14:50-16:30

New Topics in LCA Database (2)

D2-1450 14:50-15:10
The Ecoinvent Database - Linking to the Global Market
Bo P. WEIDEMA

D2-1510 15:10-15:30
Development of Chinese Reference Life Cycle Database (CLCD)
Hongtao WANG

D2-1530 15:30-15:50
Life Cycle Inventories for Bioenergy: a German Database for Policy Support
Liselotte SCHEBEK, Andreas CIROTH,
Clemens DÜPMEIER, Ludger ELTROP,
Sonja SIMON, Peter VIEBAHN,
Hermann-Josef WAGNER, Tobias ZSCHUNKE

D2-1550 15:50-16:10
Method Developed for Simplified Inventory-Data Estimation of Foreign-Made Products
Kensuke KOBAYASHI, Kiyotaka TAHARA,
Baoren WEI

D2-1610 16:10-16:30
The Quebec National LCI Database Initiative: Database Development Without Reinventing the Wheel
Pascal LESAGE

Break (20 min.)
Poster Session B (Room E)
Core Time 2 (16:50-17:50)
Banquet at 'GRAND PACIFIC LE DAIBA'

► November 12, 2010

Special Session 5 (Room A) November 12, 2010 10:00-12:00

Index and Methods to Assess Socio-economic Impacts and Sustainability

A3-1000 (Invited) 10:00-10:20
Towards Life Cycle Sustainability Assessment - Integrating Social and Economic Aspects into Life Cycle Assessment
Matthias FINKBEINER, Erwin SCHAU,
Marzia TRAVERSO

A3-1020 10:20-10:40
A UNEP/SETAC Tool Box for LC Sustainability Assessment of Products
Sonia VALDIVIA, Andreas CIROTH,
Cassia Maria UGAYA, Bin LU, Joao FONTES,
Sarah TISCHHAUSER, Guido SONNEMANN

A3-1040 10:40-11:00
Social Life Cycle Assessment of Biodiesel in South Africa: An Initial Assessment
Charles MBOHWA, Nonhlanhla MYAKA

A3-1100 11:00-11:20
Social Impact Index of ICT Services – Case Study of Videoconferences in Japan and France-
Kazue Ichino TAKAHASHI, Minako HARA,
Masayuki TSUDA, Tatsuya KUNIOKA,
Jiro NAKAMURA, Julien BOISSEAU,
Tomoko TANAKA, Marc AUBREE,
Ahmed ZEDDAM

A3-1120 11:20-11:40
Value Chain Approach to Management of Commercial and Industrial Waste
Johanna Elisa LAAKSONEN, Maria Helena TÖRN,
Jukka Pekka HEISKANEN, Juha K. KAILA

A3-1140 11:40-12:00
Evaluating Return on Investment in Thermal Insulation for Houses Considering Non-Energy Benefits of Health and Well-Being
Rika EGUCHI, Toshiharu IKAGA,
Shuzo MURAKAMI, Kumi OKUMURA

Lunch (90 min.)

Special Session 7 (Room A) November 12, 2010 13:30-15:10

Applications of LCA to New-technology Innovation (3)

A3-1330 13:30-13:50
Contribution of a Technology Improvement in Greenhouse Gas Emission Reduction Considering Interactions among Corresponding Technologies under Future Circumstances
I-Ching CHEN, Yasuhiro FUKUSHIMA

Oral Session

A3-1350 13:50-14:00
Transition of the Global Material Cycle Induced by the Introduction of Next-generation Vehicles
 Hiroki HATAYAMA, Ichiro DAIGO,
 Yasunari MATSUNO, Yoshihiro ADACHI

A3-1410 14:10-14:30
Batteries Management for Minimization of Electric Vehicles' Environmental Impacts in a Life Cycle Assessment Framework
 Van Thanh Thuy DANG, Jerome ADNOT,
 Cecile FOURNIER, Stephane MOREL,
 Jasha OOSTERBAAN

A3-1430 14:30-14:50
Required Specifications of Plug-in Electric Vehicles for CO₂ Mitigation in Life Cycle Perspective
 Yuki KUDOH, Ryoko MOTOSE

A3-1450 14:50-15:10
Inventory Analysis of CO₂ Emission over the Electric Vehicle
 Mayumi ISOBE

Closing

General Session (Room B) November 12, 2010 10:00-12:00

New Topics in LCA Database (3)

B3-1000 10:00-10:20
LCA Databases 2010 and Beyond – Basis to Improve Products and Services –
 Martin BAITZ, Fabian HASSEL, Cecilia COLODEL

B3-1020 10:20-10:40
US Activities in Making Life Cycle Inventory Data More Available to Users
 Mary Ann CURRAN

B3-1040 10:40-11:00
European Reference Life Cycle Database (ELCD)
 Marc-Andree WOLF, Kirana CHOMKHAMSRI,
 Ugo PRETATO, Rana PANT, David PENNINGTON

B3-1100 11:00-11:20
Modeling Life Cycle Inventories for Agricultural Production and Biomass Utilization: Development of the NARO LCI Database
 Kiyotada HAYASHI, Susumu UCHIDA,
 Shingo HOKAZONO, Masaei SATO,
 Yasushi FURUSHIMA, Tomokazu OHTANI,
 Kenichiro HADA

B3-1120 11:20-11:40
A Real-field LCA Method Using Ubiquitous Information Engineering
 Jae-Min CHA, Suk-Hwan SUH

B3-1140 11:40-12:00
Development of LCA Database Based on Japanese Input-output Tables and Its Application to Environmental Management
 Yoshinori KOBAYASHI

Lunch (90 min.)

General Session (Room B) November 12, 2010 13:00-15:10

Environmental Education for Life Cycle Thinking

B3-1330 13:30-13:50
Citizen's Consciousness, Perceived Effectiveness and Practice of Environmental Behavior
 Eri AOKI, Kiyo KURISU, Jun NAKATANI,
 Keisuke HANAKI

B3-1350 13:50-14:10
Motivation of Japanese Citizens to Utilize International Carbon Crediting and Individual Offsetting: An Experimental Survey Offering an Actual Offsetting Opportunity
 Hidenori NAKAMURA, Takaaki KATO

B3-1410 14:10-14:30
Biodiesel Production as a Framework for Sustainability and Life Cycle Thinking in an Introductory Engineering Course
 Stephanie FARRELL, Johannes STROBEL

B3-1430 14:30-14:50
Socio-psychological Impacts of the Introduction of PV Systems
 Hajime NODA, Hiroki HONDO

B3-1450 14:50-15:10
Life-Cycle Assessment of Material Recycling Based on Market Substitutability – A Case Study of PET Bottle Recycling –
 Jun NAKATANI, Asako OKUNO, Minoru FUJII,
 Masahiko HIRAO

Closing

Special Session 8 (Room C) November 12, 2010 10:00-12:00

Materials for Raising Environmental Consciousness of Consumers and Promoting Environmental Practices of Consumers (1)

C3-1000 10:00-10:20
New Aspects of Ecomaterials
 Yoshikazu SHINOHARA

C3-1020 (Invited) 10:20-10:40
Eco-materials Coverted from Natural Materials
 Di ZHANG, Jiajun GU, Shenming ZHU, Huilan SU,
 Qinglei LIU, Tongxiang FAN, Jian DING, Qixin GUO



Oral Session

- C3-1040 (Invited)** 10:40-11:00
Subjects on Fatigue Crack Generation in High Strength Alloys for Long-life Design
Osamu UMEZAWA
- C3-1100** 11:00-11:20
Precise Syntheses and Properties of New Bio-Based Polymers
Hideki ABE
- C3-1120** 11:20-11:40
Future Use of Wastes and Byproducts in the Cement Industry
Seiji HASHIMOTO, Kosuke KAWAI, Minoru FUJII, Chihiro KAYO, Rokuta INABA, Keisuke NANSAI, Tomohiro TASAKI, Masahiro OSAKO
- C3-1140** 11:40-12:00
Creating a New Industry Network Based on Gassification of Aquaculture Waste: Case Study for a Fishery Town in Hakodate
Atsumi FURUYA, Noritaka ASAKAWA, Motoi HIROSHIMA, Toru MATSUI, Keiichiro MOTOMATSU, Akira NAGANO, Shinichiro NAKAMURA
- Lunch (90 min.)
- Special Session 8 (Room C) November 12, 2010 13:30-15:10**
- Materials for Raising Environmental Consciousness of Consumers and Promoting Environmental Practices of Consumers (2)**
- C3-1330 (Invited)** 13:30-13:50
Environmental Impact When Biofuels Are Used for Materials Road Transport: A Carbon Footprint Approach
Bruno DE BENEDETTI, Paolo TECCHIO, Sara ROLLINO
- C3-1350** 13:50-14:10
Evaluation of the Global Warming Impact and Water Consumption of Shopping Bags (Plastic, Paper, Cotton): Case Study in Thailand
Jitti MUNGKALASIRI, Pornpimon BOONKUM, Thumrongrut MUNGCHAROEN, Chantana YUVANIYAMA
- C3-1410** 14:10-14:30
Criteria on Metals for Sustainable Materials Management in Type I Eco-Labeling System
Ichiro DAIGO, Kenichi NAKAJIMA, Takashi FUJISAKI
- C3-1430** 14:30-14:50
In What Extent Existing Assessment Methods and Eco-Certification of Architectural Materials Can Turn the Construction Industry Green
Eirini Renata DIMITROKALI
- C3-1450** 14:50-15:10
Agricultural Tourism for Eco Balance
Pardip Singh SHEHRAWAT
- Closing
- Special Session 6 (Room D) November 12, 2010 10:00-12:00**
- International Standardization of Environmental Management Accounting**
- D3-1000 (Invited)** 10:00-10:20
The Role of MFCA in Coping with the Challenges of 2020
Bernd WAGNER
- D3-1020** 10:20-10:40
The Impacts of MFCA Management to Corporate Financial Performances
Michiyasu NAKAJIMA, Asako KIMURA
- D3-1040** 10:40-11:00
MFCA Management in OMRON
Toshiaki HARADA
- D3-1100** 11:00-11:20
MFCA Management in Sekisui Chemical
Masashi NUMATA
- D3-1120** 11:20-11:40
Design of Experiments to Evaluate the Impact of Sensor Embedded Products on EOL Processing
Mehmet Ali ILGIN, Surendra M. GUPTA, Kenichi NAKASHIMA
- D3-1140** 11:40-12:00
International Standardization of MFCA (ISO 14051)
Yoshikuni FURUKAWA, Hiroshi TACHIKAWA
- Lunch (90 min.)
- General Session (Room D) November 12, 2010 13:30-15:10**
- Risk Assessment and Management**
- D3-1330** 13:30-13:50
Sustainable Use of Contaminated Land in Taiwan-building a Risk Assessment Foundation and Lesson Learned
Hung-The TSAI, Chih HUANG, Chih-Hsiu SHEN, Su-Shin HUNG, Yu-Jen CHUNG
- D3-1350** 13:50-14:10
Decision Support Tool in Design of Metal Cleaning Process Based on Life Cycle and Risk Assessments
Hiroki MATOBA, Yasunori KIKUCHI, Masahiko HIRAO

Oral Session

D3-1410 14:10-14:30

Risk Trade-offs between Brominated Flame Retardants and GHG Emissions from Life Cycle Perspective; Toward Sustainable Chemicals Assessment

Satoshi MANAGAKI, Yasukazu YOKOYAMA,
Shigeki MASUNAGA, Yuichi MIYAKE,
Takeshi KOBAYASHI, Atsumi MIYAKE,
Hiroki HONDO

D3-1430 14:30-14:50

Human Exposure Assessment to Pesticides in Developing Countries: Pesticide Flow Analysis During Handed- and Motor-Pressurized Application

Camilo LESMES FABIÁN,
Glenda GARCÍA-SANTOS, Claudia BINDER

D3-1450 14:50-15:10

PAHs Accumulation in the Life Cycle of Corn

Shiyong DU, Guolan FAN

Closing



	Room A	Room B	Room C	Room D
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (3)	Life Cycle Thinking on Building	*[S-4] Decoupling Environmental Impact and Resource Use from Economic Growth in Asia	International Trade and Waste Management Issue
16:50-17:10	A1-1650 Non-CO₂ GHG Emission from Natural Processes in Carbon Footprint of Foods Masanori SAITO (Tohoku University) Japan	B1-1650 Case Studies in Lifecycle Building Design Erin E. MOORE (University of Oregon) United States	C1-1650 Resource Efficiency: Economics and Outlook for the Asia-Pacific Region Heinz SCHANDL (CSIRO Sustainable Ecosystems) Australia	D1-1650 Exploring Lead Life Cycle from Inter-Country Trade Masaaki FUSE (National Institute of Advanced Industrial Science and Technology) Japan
17:10-17:30	A1-1710 Sustainable Food Production Johanna TELIEPS (Alanus University) Germany	B1-1710 The Role of LCA in the German Sustainable Building Certification Bastian WITTSTOCK (University of Stuttgart) Germany	C1-1710 Evaluating Industrial Energy Efficiency and Resource Productivity on the Basis of Taiwan Economy-Wide Material Flow Inventory Guan-Lin LU (National Taipei University) Taiwan, R.O.C.	D1-1710 Substance Flow Analysis on the Alloying Elements Associated with Steel Materials Based on WIO MFA Model Hajime OHNO (Tohoku University) Japan
17:30-17:50	A1-1730 Greenhouse Gas Emissions for Calculating Carbon Footprint of Sugar Production: A Case Study in Eastern Thailand Monthira YUTTITHAM (The Joint Graduate School of Energy and Environment) Thailand	B1-1730 Relationship between Urban Infrastructure and Compactness for Chinese Cities Jinling FEI (Nagoya University) Japan	C1-1730 Municipal Waste Banking System in Thailand: Lesson Learned from Sakonnakorn Province Chanathip PHARINO (Chulalongkorn University) Thailand	D1-1730 Exploring the Benefits of Environmental Policy on Innovation and Market Behavior: The Japanese Experience in Dealing with Waste Management Helmut YABAR (University of Tsukuba) Japan
17:50-18:10	A1-1750 Carbon Footprinting of Thai Rice Products: Practical Issues for Harmonised Methodology Rattawan MUNGKUNG (Kasetsart University) Thailand	B1-1750 Ecological Design of Green Roofs for Sustainable Cities C.Y. JIM (The University of Hong Kong) Hong Kong	C1-1750 Structural Properties of Global GHG Emissions and Resource Networks Embedded in Product Supply Chain Keisuke NANSAI (National Institute for Environmental Studies) Japan	D1-1750 Mixed Metal Scrap in Japan and Its Export Control Atsushi TERAZONO (National Institute for Environmental Studies) Japan

11 th Nov.				
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (4)	*[S-7] Applications of LCA to New-technology Innovation (1)	*[S-2] Sustainable Mining from Natural and Urban Reserves (1)	Resource and Environment in Asia (2)
9:00-9:20	A2-0900 Nutrient Recovery of the Effluent of Anaerobic Wastewater Treatment from Swine Farm by Magnesium Ammonium Phosphate Precipitation Sutha KHAODHIAR (Chulalongkorn University) Thailand	B2-0900 Trend Analysis of Factors to Build Material Cycle in Biomass Town Concepts Rokuta INABA (National Institute for Environmental Studies) Japan	C2-0900 Substance Flow Analysis of Zinc Correlated with South Korean Steel Industry Yong Soo JEONG (Tohoku University) Japan	D2-0900 Scenario Analysis on Zinc Recovery from Steel Making Dust in Thailand Romchat CHAIRAKSA (Tohoku University) Japan
9:20-9:40	A2-0920 Assessment of Nitrogen and Phosphorus Distribution from Pig Farming to Bang Pakong Basin, Thailand Wallapa KUPKANCHANAKUL (Mahidol University) Thailand	B2-0920 Klimatre: Wood for a Better Climate and Higher Value Added Products Marco IOTTI (PFI AS) Norway	C2-0920 Substance Flow Analysis of Cadmium in Korea Minjung SON (Konkuk University) Republic of Korea	D2-0920 Survey of Household Waste Generation and Willingness to Separate Waste Collection in Sri Lanka Weranga Madhushan KAHAWE GURUGE (Okayama University) Japan
9:40-10:00	A2-0940 Design-Based Calculation of Life Cycle Inventory (LCI) Data for Fertilizer Production and Comparison of Results to Other LCI Evan M. GRIFFING (Environmental Clarity LLC) United States	B2-0940 Assessing Resource Saving Innovations in the Forest-Based Sector Industries Silke FEIFEL (Karlsruhe Institute of Technology) Germany	C2-0940 Dynamic Modeling of Cadmium Substance Flow with Zinc and Steel in Japan Yasunari MATSUNO (The University of Tokyo) Japan	D2-0940 A Brief Observation on Implementation of Taiwan Corporate Social Responsibility Wang Kun CHEN (Jin-wen University of Science and Technology) Taiwan, R.O.C.
10:00-10:20	A2-1000 Extrapolation of Potential Phosphorus Production into the Future David A. VACCARI (Stevens Institute of Technology) United States	B2-1000 Environmental Impact Assessment in Consideration of Utilization form of Products: An Example of a Paperless Meeting Takafumi NAKAJIMA (Waseda University) Japan	C2-1000 Domestic Material Flow of Zinc and Present Status of EAF Dust Management for Zinc Recovery in Taiwan Hwong-wen MA (National Taiwan University) Taiwan, R.O.C.	D2-1000 Assessment of Potentiality and Social Acceptance of PSF and RWHS in South-West Coastal Region of Bangladesh Sayed Mohammad NAZIM UDDIN (Nagoya University) Japan
10:20-10:40	Break			



	Room A	Room B	Room C	Room D
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (5)	*[S-7] Applications of LCA to New-technology Innovation (2)	*[S-2] Sustainable Mining from Natural and Urban Reserves (2)	New Topics in LCA Database (1)
10:40-11:00	A2-1040 Invited Phosphorus Recycling for Sustainable Agriculture and Industry Hisao OHTAKE (Osaka University) Japan	B2-1040 Life Cycle Assessment of Virtual Meeting Solutions Fredrik GULDBRANDSSON (Ericsson Research) Sweden	10:40-10:50 Sustainable mining from Natural and Urban Reserves Shinsuke MURAKAMI (University of Tokyo) Kenichi NAKAJIMA (National Institute for Environmental Studies) Japan	D2-1040 Lessons from Working in UNEP's Resource Panel Secretariat for Strengthening Resource Efficiency Indicators in LCA Guido SONNEMANN (United Nations Environment Programme) France
11:00-11:20	A2-1100 WIO-MFA on Phosphorus Recovery from the Waste Materials Kazuyo MATSUBAE (Tohoku University) Japan	B2-1100 Environmental Relief Effects of Nanotechnologies by the Example of CNT Composite Materials and Films Arnim Von GLEICH (University of Bremen) Germany	C2-1050 10:50-11:15 Metal Mining: Its Impact to Environment and Approaches to Mitigate Hiroshi SHIMOTORI (Japan Oil, Gas and Metals National Corporation) Japan	D2-1100 Invited e-DEA as a Practical Design for Environment Tool Andreas CROTH (GreenDeltaC) Germany
11:20-11:40	A2-1120 A Critical Review of Advanced Biofuels Life Cycle Analyses Fabio Machado MENTEN (IFP Energies nouvelles) France	B2-1120 Eco-Balance of the Production Phases of Post Combustion CO₂-Capture Technologies – A Comparison Stefanie TROY (Ruhr-University Bochum) Germany	C2-1115 11:15-11:35 A Practical and Rigorous Methodology for Integrating Sustainable Development Principles into Decision-making Processes at Minerals Processing Operations Daniel TUAZON (Sustainable Minerals Institute) Australia	D2-1120 Facilitating a Harmonisation Process Across Product Carbon Footprint Standards and PCR's Mark GOEDKOOOP (PRé Consultants) Netherlands
11:40-12:00	A2-1140 A Well-to-wheel Greenhouse Gases Analysis of Cassava-based Ethanol Fuels in Thailand Seksan PAPONG (National Metal and Materials Technology Center) Thailand	B2-1140 Value Chain Approach to WEEE Management Maria Helena TÖRN (Aalto University) Finland	C2-1135 Invited 11:35-12:00 A Possibility of CRT Recycling in a Lead Smelter from an Environmental Point of View Takashi NAKAMURA (Tohoku University) Japan	D2-1140 Data Network of the International Reference Life Cycle Data System (ILCD) Kirana CHOMKHAMSRU (European Commission, Joint Research Centre) Italy
12:00-13:30	Lunch			
13:30-14:30	Poster Session A			
14:30-14:50	Break			
Session	*[S-1] Sustainable Management of Agricultural and Biomass Resources Using the Life Cycle Approach (6)	Carbon Resource Management in Energy System	*[S-2] Sustainable Mining from Natural and Urban Reserves (3)	New Topics in LCA Database (2)
14:50-15:10	A2-1450 Invited Sustainable Utilisation of Biomass Resources Using an Integrated Approach Shabbir H. GHEEWALA (Joint Graduate School of Energy and Environment) Thailand	B2-1450 Applicability of Co-Evolutionary Cross-Linkages in Terms of a) Environment-Related Technological Innovations and b) Technology-Related Built-Environmental Re-Designs to LCA Framework Joy SEN (IIT Kharagpur) India	C2-1450 Invited Hybrid Ghoshian Framework for Mapping Industrial Metal Flow Networks: With a Case Study of South Korea Sangwon SUH (University of California in Santa Barbara) United States	D2-1450 The Ecoinvent Database – Linking to the Global Market Bo P. WEIDEMA (ecoinvent) Switzerland
15:10-15:30	A2-1510 An Indication of a Carbon-Footprint of Paprika Due to the Greenhouse Facilities with an Installation of Biomass Energy System Kiyoshi DOWAKI (Tokyo University of Science) Japan	B2-1510 Research on Supply Chain Management of Photovoltaic Industry to Reduce CO₂ Emission in Global Perspective Kotaro KAWAJIRI (National Institute of Advanced Industrial Science and Technology) Japan	C2-1510 The Grade of Materials in Urban Mine in Terms of Total Materials Requirement ~ A Comparison among Electronics, Urban Buildings and Vehicle ~ Eiji YAMASUE (Kyoto University) Japan	D2-1510 Development of Chinese Reference Life Cycle Database (CLCD) Hongtao WANG (Sichuan University) China
15:30-15:50	A2-1530 Environmental Challenges When Developing Renewable Materials to Replace Non-Renewable Materials – Receiving Guidance from LCA Studies Gunilla CLANCY (Chalmers University of Technology) Sweden	B2-1530 A Life Cycle Perspective on Geothermal Heat Pump Systems in Europe Dominik SANER (ETH Zurich) Switzerland	C2-1530 Consequential MFA – A New Approach to Integrate MFA and LCA Laura SCHNEIDER (Technische Universität Berlin) Germany	D2-1530 Life Cycle Inventories for Bioenergy: A German Database for Policy Support Liselotte SCHEBEK (Karlsruher Institut für Technologie, ITAS-ZTS) Germany
15:50-16:10	A2-1550 Life Cycle Assessment of Novel Chemical Production: A Case Study of Biomass-Derived Resin Yasunori KIKUCHI (The University of Tokyo) Japan	B2-1550 Correlation Analysis on CO₂ Emission and Cost of Energy Resources and Life Cycle Assessment Heetae KIM (Sungkyunkwan University) Republic of Korea	C2-1550 Thermodynamic Evaluation for the Controllability on Recovery/Removal of Elements in Some Metallurgical Processes Osamu TAKEDA (Tohoku University) Japan	D2-1550 Method Developed for Simplified Inventory –Data Estimation of Foreign-Made Products Kensuke KOBAYASHI (Tokyo University of Science) Japan
16:10-16:30	Discussion	B2-1610 An Application of LCA to Clarification of CO₂ EOR as a Storage Option for CCS Jitsopa SUEBSIRI (IPAC-CO ₂) Canada	C2-1610 Sustainability Index of Metals Kohmei HALADA (National Institute for Materials Science) Japan	D2-1610 The Quebec National LCI Database Initiative: Database Development without Reinventing the Wheel Pascal LESAGE (CIRAIG) Canada
16:30-16:50	Break			
16:50-17:50	Poster Session B			
18:30-20:30	Banquet at 'GRAND PACIFIC LE DAIBA'			



12 th Nov.				
Room A	Room B	Room C	Room D	
*[S-5] Index and Methods to Assess Socio-economic Impacts and Sustainability	New Topics in LCA Database (3)	*[S-8] Materials for Raising Environmental Consciousness of Consumers and Promoting Environmental Practices of Consumers	*[S-6] International Standardization of Environmental Management Accounting	
10:00-10:20 A3-1000 Invited Towards Life Cycle Sustainability Assessment – Integrating Social and Economic Aspects into Life Cycle Assessment Matthias FINKBEINER (Technische Universite Berlin) Germany	83-1000 LCA Databases 2010 and Beyond – Basis to Improve Products and Services – Martin BAITZ (PE International GmbH) Germany	C3-1000 New Aspects of Ecomaterials Yoshikazu SHINOHARA (National Institute for Materials Science) Japan	D3-1000 Invited The Role of MFCA in Coping with the Challenges of 2020 Bernd WAGNER (University of Augsburg) Germany	
10:20-10:40 A3-1020 A UNEP/SETAC Tool Box for LC Sustainability Assessment of Products Sonia VALDIVIA (United Nations Environment Programme DTIE) France	83-1020 US Activities in Making Life Cycle Inventory Data More Available to Users Mary Ann CURRAN (US Environmental Protection Agency) United States	C3-1020 Invited Eco-Materials Covered from Natural Materials Di ZHANG (Shanghai Jiaotong university) China	D3-1020 The Impacts of MFCA Management to Corporate Financial Performances Michiyasu NAKAJIMA (Kansai University) Japan	
10:40-11:00 A3-1040 Social Life Cycle Assessment of Biodiesel in South Africa: an Initial Assessment Charles MBOHWA (University of Johannesburg) South Africa	83-1040 European Reference Life Cycle Database (ELCD) Marc-Andree WOLF (Joint Research Centre) Italy	C3-1040 Invited Subjects on Fatigue Crack Generation in High Strength Alloys for Long-Life Design Osamu UMEZAWA (Yokohama National University) Japan	D3-1040 MFCA Management in OMRON Toshiaki HARADA (OMRON Co.) Japan	
11:00-11:20 A3-1100 Social Impact Index of ICT Services – Case Study of Videoconferences in Japan And France – Kazue Ichino TAKAHASHI (Nippon Telegraph and Telephone Corporation) Japan	83-1100 Modeling Life Cycle Inventories for Agricultural Production and Biomass Utilization: Development of The NARO LCI Database Kiyotada HAYASHI (National Agriculture and Food Research Organization) Japan	C3-1100 Precise Syntheses and Properties of New Bio-Based Polymers Hideki ABE (RIKEN Biomass Engineering Program) Japan	D3-1100 MFCA Management in Sekisui Chemical Masashi NUMATA (Sekisui Chemical Co., Ltd.) Japan	
11:20-11:40 A3-1120 Value Chain Approach to Management of Commercial and Industrial Waste Johanna Elisa LAAKSONEN (Aalto University) Finland	83-1120 A Real-Field LCA Method Using Ubiquitous Information Engineering Jae-Min CHA (POSTECH) Republic of Korea	C3-1120 Future Use of Wastes and Byproducts in the Cement Industry Seiji HASHIMOTO (National Institute for Environmental Studies) Japan	D3-1120 Design of Experiments to Evaluate the Impact of Sensor Embedded Products on EOL Processing Mehmet Ali ILGIN (Dokuz Eylul University) Turkey	
11:40-12:00 A3-1140 Evaluating Return on Investment in Thermal Insulation for Houses Considering Non-Energy Benefits of Health and Well-Being Rika EGUCHI (Keio University) Japan	83-1140 Development of LCA database based on Japanese Input-Output tables and Its Application to Environmental Management Yoshinori KOBAYASHI (Toshiba Corporation) Japan	C3-1140 Creating a New Industry Network Based on Gassification of Aquaculture Waste: Case Study for a Fishery Town in Hakodate Atsumi FURUYA (Hokkaido University) Japan	D3-1140 International Standardization of MFCA (ISO 14051) Yoshikuni FURUKAWA (Nitto Denko Corporation) Japan	
Lunch				
*[S-7] Applications of LCA to New-technology Innovation (3)	Environmental Education for Life Cycle Thinking	*[S-8] Materials for Raising Environmental Consciousness of Consumers and Promoting Environmental Practices of Consumers	Risk Assessment and Management	
13:30-13:50 A3-1330 Contribution of a Technology Improvement in Greenhouse Gas Emission Reduction Considering Interactions among Corresponding Technologies under Future Circumstances I-Ching CHEN (National Cheng Kung University / The University of Tokyo) Japan	83-1330 Citizen's Consciousness, Perceived Effectiveness and Practice of Environmental Behavior Eri AOKI (The University of Tokyo) Japan	C3-1330 Invited Environmental Impact when Biofuels are Used for Materials Road Transport: A Carbon Footprint Approach Bruno DE BENEDETTI (Politecnico di Torino) Italy	D3-1330 Sustainable Use of Contaminated Land in Taiwan-building a Risk Assessment Foundation and Lesson Learned Hung-The TSAI (Environmental Protection Administrative) Taiwan, R.O.C.	
13:50-14:10 A3-1350 Transition of the Global Material Cycle Induced by the Introduction of Next-Generation Vehicles Hiroki HATAYAMA (The University of Tokyo) Japan	83-1350 Motivation of Japanese Citizens to Utilize International Carbon Crediting and Individual Offsetting: An Experimental Survey Offering an Actual Offsetting Opportunity Hidenori NAKAMURA (Institute for Global Environmental Strategies) Japan	C3-1350 Evaluation of the Global Warming Impact and Water Consumption of Shopping Bags (Plastic, Paper, Cotton): Case Study in Thailand Jitti MUNGKALASIRI (National Metal and Materials Technology Center) Thailand	D3-1350 Decision Support Tool in Design of Metal Cleaning Process Based on Life Cycle and Risk Assessments Hiroki MATOBA (The University of Tokyo) Japan	
14:10-14:30 A3-1410 Batteries Management for Minimization of Electric Vehicles' Environmental Impacts in a Life Cycle Assessment Framework Van Thanh Thuy DANG (Renault) France	83-1410 Biodiesel Production as a Framework for Sustainability and Life Cycle Thinking in an Introductory Engineering Course Johannes STROBEL (Rowan University) United States	C3-1410 Criteria on Metals for Sustainable Materials Management in Type I Eco- Labelling System Ichiro DAIGO (The University of Tokyo) Japan	D3-1410 Risk Trade-Offs between Brominated Flame Retardants and GHG Emissions from Life Cycle Perspective; Toward Sustainable Chemicals Assessment Satoshi MANAGAKI (Yokohama National University) Japan	



	Room A	Room B	Room C	Room D
14:30-14:50	A3-1430 Required Specifications of Plug-in Electric Vehicles for CO₂ Mitigation in Life Cycle Perspective Yuki KUDOH (National Institute of Advanced Industrial Science and Technology) Japan	B3-1430 Socio-Psychological Impacts of the Introduction of PV Systems Hajime NODA (Yokohama National University) Japan	C3-1430 In What Extent Existing Assessment Methods and Eco-Certification of Architectural Materials Can Turn the Construction Industry Green Eirini Renata DIMITROKALI (University of Central Lancashire) United Kingdom	D3-1430 Human Exposure Assessment to Pesticides in Developing Countries: Pesticide Flow Analysis during Handed- And Motor-Pressurized Application Camilo LESMES FABIÁN (University of Graz) Austria
14:50-15:10	A3-1450 Inventory Analysis of CO₂ Emission over the Electric Vehicle Mayumi ISOBE (Nissan Motor Co., LTD.) Japan	B3-1450 Life-Cycle Assessment of Material Recycling Based on Market Substitutability – A Case Study of Pet Bottle Recycling – Jun NAKATANI (The University of Tokyo) Japan	C3-1450 Agricultural Tourism for Eco Balance Pardip Singh SHEHRAWAT (CCS Haryana Agricultural University) India	D3-1450 PAHs Accumulation in the Life Cycle of Corn Shiyong DU (Jinan Environmental Protection Research Institute) China
15:10-16:10	Closing			
16:10-16:50	Farewell Party (Room E)			

(As of 15th October, 2010)

Poster Session

Poster session A (13:30-14:30) Numbers with underline
Poster session B (16:50-17:50) Numbers without underline

- P-001** **Sustainability of the Hydrogen Economy: A Focus on South Africa**
Junior Mabiza MA MABIZA, Charles MBOHWA
- P-002** **Gaining Host Community Approval for Siting Renewable Energy Facilities**
Leighton K. CHONG
- P-003** **The Blue Revolution: The Oceans As Ultimate Sustainable Resource**
Patrick K. TAKAHASHI, Leighton K. CHONG
- P-004** **Life Cycle CO₂ Emissions by New Power Generation Technologies in Japan**
Ei-ichi IMAMURA, Koji NAGANO
- P-005** **Environmental and Economic Evaluation for Accomplishing Food Waste Recycling Loop in Japan**
Miki TAKATA, Kazuyo FUKUSHIMA,
Norio NAGAO, Chiaki NIWA, Tatsuki TODA
- P-006** **The Potential for Sustainable Management of Biomass Resources in the South African Sugar Industry**
Takalani Musundwa NEMARUMANE,
Charles MBOHWA
- P-007** **Assessing Social Sustainability of Bio-ethanol in the South African Sugar Industry**
Janet Paidamoyo DUMA, Charles MBOHWA
- P-008** **Life Cycle Assessment on Introduction of Biogas Plant in Hokkaido**
Nobuo YABE
- P-009** **Development of Estimation Model for Environmental Load of Architectural Woods**
Yusuke NAMBU, Toshiharu IKAGA,
Yuko TSUNETSUGU, Kensuke KOBAYASHI,
Shun KAWAKUBO, Kumi OKUMURA
- P-010** **Follow-up Study on Lifecycle Assessment of Bio Diesel Fuel Business Derived from Waste Cooking Oil**
Jinmei YANG, Mitsuru KAI, Takeshi FUJIWARA,
Ayaka GOTO
- P-011** **Soft-carbohydrate-rich rice straw: a potential raw material for Bio-ethanol**
Takahiro ORIKASA, Ken TOKUYASU,
Jeung-Yil PARK, Motohiko KONDO,
Yumiko SANOH, Takashi INOUE,
Koji KOJIMA, Toshikazu YANO,
Poritosh ROY, Takeo SHIINA
- P-012** **"Kampong Biogas"- Village Energy Independent as a Professional Firm by Poor Citizen, Case Study in Indonesia**
Rayendra ANANDIKA, Siska ADITYA,
Muhammad Ibrahim ATS-TSAURI,
Satwika Matahari ADYUTAWATI, WIJAYA,
Nugroho Slamet WIJIYANTO, Atik MUTTAQIN
- P-013** **Environmental Impact Assessment of Rapeseed Cultivation in Korea using LCA**
Seung-Gil HONG, Joungdu SHIN,
Soon-Ik KWON, Woo-Kyun PARK,
Deog-Bae LEE, Jeong-Gyu KIM, Jae-Jak NAM
- P-014** **Life Cycle Assessment of Bioethanol Produced from Rice Straw by Enzymatic Hydrolysis Process**
Poritosh ROY, Ken TOKUYASU,
Takahiro ORIKASA, Nobutaka NAKAMURA,
Takeo SHIINA
- P-015** **Greenhouse Gas Mitigation Potential of Bioenergy Production: A Case Study of Biogas and Biodiesel Production in Indonesia**
Hirotsugu KAMAHARA, Udin HASANUDIN,
Naohiro GOTO, Hiroyuki DAIMON,
Koichi FUJIE
- P-016** **Inventory Analysis of Boilers Operated with Emulsified Biomass Fuel**
Kunio SATO, Takashi FUKUSHIMA,
Satoshi OHTSU, Kazuaki MARUHASHI,
Yukio ITO, Yuki ITO, Tadahiro YAMAGUCHI
- P-017** **An LCA Case Study on Co-firing of Semi-carbonized Fuel Made from Thinning Woods in Coal Fired Power Plant**
Yutaka GENCHI Tomohiro TABATA,
Tsuyoshi TORIKAI, Mineo TSURUMAKI,
Koji UKEGAWA

Poster Session

Poster session A (13:30-14:30) Numbers with underline
 Poster session B (16:50-17:50) Numbers without underline

- P-018** **Life Cycle Assessment of Renewable Diesel from Palm Oil: Energy and Greenhouse Gas Aspects**
 Chantima REWLAY-NGOEN, Seksan PAPONG,
 Manit NITTHITHANAKUL,
 Pomthong MALAKUL
- P-019** **Eco-efficiency Analysis of the Biodiesel from Used Cooking Oil: Data Envelopment Analysis**
 Kanako TAKEZONO
- P-020** **Integrated Life Cycle Assessment of Second Generation Bioenergy Systems: An Indian Case Study**
 Joana PORTUGAL, Jun NAKATANI,
 Kiyo KURISU, Keisuke HANAKI
- P-021** **High Valued Diversified Agriculture for Sustainable Environment**
 Pardip Singh SHEHRAWAT
- P-022** **Life Cycle Assessment Study on Environmental Performance of Skim Rubber Production Using Novel Technology**
 Kittipoj DATCHANEEKUL,
 Tassaneewan CHOM-IN,
 Sirichai PATTANAWANIDCHAI,
 Chaveewan KONGKAEW,
 Surapich LOYKULNANT,
 Soottiwan NOKSA-NGA,
 Seksan PAPONG, Pomthong MALAKUL
- P-023** **Life Cycle Assessment of Organic Soybean Production in Paddy Fields under Rotational Cropping**
 Shingo HOKAZONO, Kiyotada HAYASHI,
 Masaei SATO
- P-024** **Questionnaire Survey on the Greenhouse Gas Emissions from Feed Production System Using Food Residuals**
 Tatsuo HISHINUMA, Yutaka GENCHI,
 Akifumi OGINO, Tomoyuki KAWASHIMA,
 Kazunori AWAJI, Masakazu NAGAKI
- P-025** **Life Cycle Assessment of Pesticides for Paddy Rice: the Relationship between Impacts of Production and Impacts of Application**
 Kiyotada HAYASHI, Masaei SATO,
 Susumu UCHIDA, Peter FANTKE, Shanna SHAKED, Shingo HOKAZONO, Olivier JOLLIET
- P-026** **Inventory Analysis of Local Lumber on Each Stage of Forestry, Manufacturing and Distribution**
 Yusuke NAMBU, Toshiharu IKAGA,
 Shun KAWAKUBO, Kumi OKUMURA
- P-027** **Phosphorus Recovering from Carbonized Sewage Sludge by Hydrothermal Processes**
 Masaaki TAKAHASHI, Yukimasa TAKEMOTO
- P-028** **The Effect of Rambutan Peel (Nephelium Lappaceum) as Reducing Agent on In Vitro Methan Production Within Creating Environment Friendly Farming**
 Siska ADITYA, Natasha Milzandra
 FEMMAYROSSIE, Thoriqul Irfah ALHUDA,
 Fariz Ahmad FADILLAH,
 Tombak Mahesa BAGASKORO
- P-029** **Estimation of GHG Reduction Effect Using Amino Acid for Feeds**
 Susumu TSUJIMOTO, Takashi OSADA,
 Izuru SHINZATO
- P-030** **Life Cycle Inventory Analysis of Rice Husk Use in an Giang Province, Vietnam**
 Thao Thi Mai PHAM
- P-031** **Seedling Density in an Elevation Gradient in Northeastern Mexico according to Climate Change**
 Enrique JURADO, Jaime GARCÍA
- P-032** **Allocation Procedure in Livestock Industry: Case Study of Dairy Cow**
 Yoo-Sung PARK, Chun-Youl BAEK,
 Kyu-Hyun PARK, Kun-Mo LEE
- P-033** **The Environmental Consequences of Changing the Forage Base in Australian Pasture-based Feeding Systems**
 Şeyda ÖZKAN, Julian HILL
- P-034** **Traditional Knowledge as a Fundamental Input for Natural Resource Management and Sustainable Livelihoods in Mountain Habitats: Learning from Farmers in Uttarakhand, India**
 Vir SINGH, Neelendra K JOSHI
- P-035** **Development of Biodiversity Damage Assessment Considering Extinction Risk**
 Ken Horiguchi, Norihiro ITSUBO



Poster Session

Poster session A (13:30-14:30) Numbers with underline
Poster session B (16:50-17:50) Numbers without underline

P-036 Implementation of Biodiversity Management in Pharma Industry

Anna Franziska GAST, Johanna TELIEPS

P-037 Population Ecology of Host-Parasite Persistence Thresholds

Ali Abdullah SHATI, Xavier LAMBIN

P-038 Biodiversity of Phyllosphere and Phyllopalne Microflora of Green Houses' Vegetables in Aseer Region, Saudi Arabia

Saad Abdulrahman ALAMRI,
Mohamed Mohamed HASHEM,
Yasser Sabry MOSTAFA

P-039 Biodiversity of Freshwater Fishes in Selected Agroecological Zones in Southern India

D. SANNA DURGAPPA

P-040 Eco-Efficiency of Rainwater Harvesting in the Design of Mediterranean Neighbourhoods

Sara ANGRILL, Ramon FARRENY,
Carles MARTÍNEZ, Bernat VIÑOLAS,
Tito MORALES, Xavier GABARRELL,
Alejandro JOSA, Joan RIERADEVALL

P-041 Simplified LCA of Irrigation Facilities in Korea: A Case Study of Dam and Pumping Station

Young Deuk KIM, Norihiro ITSUBO,
Yo-Han CHOI

P-042 Water-Use Related Impacts on Terrestrial Ecosystems: the Case of Milk Production in Peru

Francesca VERONES, Karin BARTL,
Annette KOEHLER, Stephan PFISTER,
Stefanie HELLWEG

P-043 The Benefits of Industrial Symbiosis and Carbon Reduction at Taoyuan ESTP of Taiwan

Yen-Chuan CHEN, Hsuan-Chi CHEN,
Tzu-Yar LIU, Jui-Hsi YEN, Yi-Hua LI,
Chi-Ming CHIU, Ying-Ying LAI,
Jiunn-Iuan WANG

P-044 Eco-labeling: Requirements for a Consistent Marketing

Markus MAU, Johanna TELIEPS

P-045 Changing Environmental Regulations and the Electronics Industry

John MESSINA, Kevin BRADY

P-046 Environmental Tax of Products and Services Based on Life Cycle Assessment

Eskinder DEMISSE, Isabela BUTNAR,
Maria LLOP, Francesc CASTELLS

P-047 A Quantitative Analysis of the Effects of Border Tax Adjustments for CO₂ Emissions Trading Schemes in Japan

Masato YAMAZAKI

P-048 Exchanging Environmental Data throughout the Supply Chain

Eric SIMMON, John MESSINA

P-049 Current Paradigm Shifts within Sustainable Development

Harald Ernst OTTO

P-050 The Contribution of Design Management as a Facilitator in Achieving Eco-efficiency within Small Mexican Technology-based Enterprise in New Technological Industries

Beatriz Itzel CRUZ MEGCHUN, David J HANDS,
David J DOUGLAS

P-051 Active Ageing in Urban Environments: Confronting Environmental Constraints and Facilitators Towards and Beyond 2020

Michael J ANNEAR

P-052 Sustainable Corporate Communication as a Tool to Bring Forward Sustainable Development via Sustainable Consumption

Malve Marie FREISCHER, Johanna TELIEPS

P-053 The Regional Analysis of Resource Productivity in China

Feng SHI, Hiroki TANIKAWA, Akio ONISHI,
Tao HUANG, Hidefumi IMURA

P-054 A Study of Socio-Economic Impacts of a Sustainable Energy Flow System in the Philippines

Mary Grace Carlos GO, Hiroki TANIKAWA,
Hiroaki SHIRAKAWA,
Hidefumi IMURA

Poster Session

Poster session A (13:30-14:30) Numbers with underline
 Poster session B (16:50-17:50) Numbers without underline

- P-055** **Environmental Performance Analysis of Product Portfolio**
 Jan DUSEK, Yoshiro FUKUDA
- P-056** **Relevance Analysis Method for Sustainability Based on Co-Occurrence Relation in Newspaper Articles**
 Keijiro MASUI, Takashi SONDA
- P-057** **Implementation of Life Cycle Assessment into Process Design as a Mechanism of PDCA Cycle**
 Yasunori KIKUCHI, Masahiko HIRAO
- P-058** **Development of a Prediction Model of Low-Carbon Technology Implementation Rate Based on Home Owner's Decision-Making Structure**
 Mitsuru DEGUCHI, Toshiharu IKAGA,
 Shun KAWAKUBO, Kumi OKUMURA
- P-059** **Decision Support for Environmentally-Conscious Consumption by Interactive Assessment Tool: A Case Study on the Selection of Shopping Bag**
 Satoshi HATANAKA, Yasunori KIKUCHI,
 Masahiko HIRAO
- P-060** **Toward Elucidation of the Comprising Factors for Sustainability and Livability in Cities by Questionnaire Analysis**
 Shun KAWAKUBO, Toshiharu IKAGA
- P-061** **Analysis of Energy Consumption Patterns and Scenarios for Development of Industrial Sectors – Cases of Shanghai City and Jiangsu Province**
 Keishiro HARA, Michinori UWASU,
 Haiyan ZHANG, Helmut YABAR
- P-062** **A New Characterization Model for Depletion of Abiotic Resources – The Anthropogenic Stock Extended Abiotic Depletion Potential**
 Markus BERGER, Laura SCHNEIDER,
 Matthias FINKBEINER
- P-063** **Multi-Scale Integrated Analysis of Societal and Ecosystem Metabolism (MuSIASEM) Aided with GIS: An Application to Australia, China, India and Japan**
 Wanxin HOU, Sunuhadi PRABOWO, Jinling FEI,
 Hiroki TANIKAWA, Shunsuke MANAGI, Minoru SASAKI, Kozo MAYUMI
- P-064** **A Proposal of Environmental Assets Management Method of Infrastructure Provisions: Life Cycle Assessment without Setting Lifetime and Discount Rate**
 Naoki SHIBAHARA, Hirokazu KATO
- P-065** **Comparison of Social Cost between Brominated Flame Retardant HBCD and Its Alternatives.**
 Tomoya INOUE, Satoshi MANAGAKI,
 Shigeki MASUNAGA
- P-066** **A Decision-support System for Consumers to Select Energy Related Home Appliances under User-specific Conditions**
 Ting LIU, Yasunori KIKUCHI, Masahiko HIRAO
- P-067** **The Improvement of Accounting Treatment of Material Flow Cost Accounting**
 Mei SUN, Katsuya NAGATA
- P-068** **Environmental and Economical Analysis with the Integration of LCA and MFCA**
 Tomomi SUETSUGU, Norihiro ITSUBO
- P-069** **Reducing of Zinc in Ferrite Slurries – Goethite Process**
 Roman MARSALEK, Barbora PRZYBYLKOVA,
 Rudolf PETER, Antonin KLECKA,
 Vladimir SPACHMAN
- P-070** **Study on Behavior Modification Effect of Discharge Fee System on Household Solid Waste in Okayama City**
 Yasuhiro MATSUI, Mitsuru KAI
- P-071** **Characterisation and Modelling of Household Waste Generation Based on Questionnaire Study – Case Study of Iskandar Malaysia**
 Siti Norbaizura MD. REJAB, Takeshi FUJIWARA,
 Ho Chin SIONG
- P-072** **LCA Approach to Analyzing Solvent Waste Issues in the Pharmaceutical Industry**
 Mariano Javier SAVELSKI, Michael RAYMOND,
 Stewart SLATER
- P-073** **A System Analysis of Bio-ethanol Produced from Cassava and Sugarcane in Northern Thailand**
 Motoko YAMANARI, Motoko YAMANARI,
 Kenichi ADACHI, Kiyoshi DOWAKI,
 Yucho SADAMICHI



Poster Session

Poster session A (13:30-14:30) Numbers with underline
Poster session B (16:50-17:50) Numbers without underline

- P-074 Case Study of the Energy Balance and Cost Benefit of Kitchen Waste Treatment in Taiwan**
Wang-Kun CHEN
- P-075 The Financial and Environmental Costs of Reusable and Single-Use Plastic Anaesthetic Trays**
Scott Jeremy MCALISTER, Forbes MCGAIN,
David STORY
- P-076 Mass and Energy Balance Analysis of Sewage Sludge Treatment Processes**
Yuhi OZAKI, Ryuichi TACHIBANA,
Koichi FUJIE
- P-077 The Collection and Recycling Systems of Used Mobile Phone in European Countries and Japan**
Rie MURAKAMI-SUZUKI, Naoko TOJO,
Panate MANOMAIVIBOOL,
Atsushi TERAZONO, Shinsuke MURAKAMI
- P-078 A Study of the Household Solid Waste Generation and Characteristic in a North Central Vietnam City – Hue City**
N. P. THANH, Y. MATSUI, N. T.M. YEN,
P. K. LIEU, T. N. TUAN
- P-079 Effect of Environmental Load Reduction of Food Waste Recycling System in Household Sector**
Yingying DOU, Toru MATSUMOTO,
Yonghai XUE
- P-080 Life Cycle CO₂ Emissions for Local Passenger Transport Modes of Different Passenger Flow Volume**
Kei ITO, Hirokazu KATO, Naoki SHIBAHARA
- P-081 Assessing Impact of Economic Development on Water Pollution in Thailand Using Dynamic Spatial Econometrics Analysis**
Saranyupa CHAIPRASITHIKUL,
Yue MORIIZUMI, Yoko WAKE
- P-082 Life Cycle Assessment Used as Supportive Evidence for the Health Technology Assessment of a Drug: Initial French Experience with a New Packaging of an Iodinated Contrast Agent, Xenetix® in ScanBag®**
Philippe SCHIESSER, Lionel MORO,
Patrice AUCLAIR, Françoise MATOU
- P-083 Characterisation Factors for Cooling Water Emissions to Freshwater Bodies**
Francesca VERONES,
Marlia MOHD HANAFIAH, Stephan PFISTER,
Mark HUIJBREGTS, Gregory PELLETIER,
Annette KOEHLER
- P-084 Public Attitude and Acceptance Level of Low Carbon Power Technology in Japan**
Hiromi KUBOTA, Kenshi BABA, Hiroki HONDO
- P-085 Agronomic and Environmental Viability of Compost Application in Mediterranean Horticultural Crops**
Julia MARTÍNEZ-BLANCO, Joan COLÓN,
Pere MUÑOZ, Assumpció ANTÓN,
Adriana ARTOLA, Xavier FONT,
Antoni SÁNCHEZ, Xavier GABARRELL,
Joan RIERADEVALL
- P-086 Estimation of Comprehensive Environmental Impacts in Metal Mine Sites - Focused on Wastewater Treatment**
Akihiro TAKAHASHI, Tsuyoshi ADACHI,
Chiharu TOKORO, Shinsuke MURAKAMI
- P-087 Inventory of Chemicals and Biological Substances (as Alternatives) in the Processes of Industrial and the Small Scale Tanning in Cameroon – Africa**
Samuel TETSOPGANG, Gilbert KUEPOUO
- P-088 Substance Flow Analysis of Phosphorus Focusing on the Secondary Resources in Japan**
Jun KAJIYAMA, Kazuyo MATSUBAE,
Takehito HIRAKI, Tetsuya NAGASAKA
- P-089 An Analysis on the Carbon Economic Effects of Using Wood Residues as Energy and Material**
Seok-Jin HONG, Yoonsil CHOI, Eun Sil JANG,
Ji Yong LEE, Tak HUR
- P-090 Inspection and Remediation to Increase Service Life of Wood Poles**
Louis GASTONGUAY
- P-091 Environmental Efficiency of Copper Mines**
Naoya MATSUMOTO, Yuzo TAMANISHI,
Shinsuke MURAKAMI, Jiro YAMATOMI

Poster Session

Poster session A (13:30-14:30) Numbers with underline
 Poster session B (16:50-17:50) Numbers without underline

- P-092** **Visualization of Element Distribution by Thermodynamic Analysis on Magnesium and Aluminum Alloy Recycling**
 Takehito HIRAKI, Kenichi NAKAJIMA,
 Osamu TAKEDA, Takahiro MIKI,
 Kazuyo MATSUBAE-YOKOYAMA,
 Sinichiro NAKAMURA, Tetsuya NAGASAKA
- P-093** **Impact on Environmental Load and Economic Structure from Change of Household Expenditure: A Case of Thailand from 1986 to 2025**
 Thoedsak CHOMTOHSUWAN,
 Masaharu NAGASHIMA, Yutaka TONOOKA
- P-094** **Estimation of Steel Stock in Building and Civil Construction by Satellite Image**
 Feng-Chi HSU, Ichiro DAIGO,
 Yasunari MATSUNO, Yoshihiro ADACHI
- P-095** **The Simulation of Material Flows/Stocks for Indium, Lead, and Zinc**
 Tomohiro KOCHI, Shinsuke MURAKAMI,
 Jiro YAMATOMI, Yuichi KAJIURA
- P-096** **Know the Fitness of Your Building**
 Ray PITTARD
- P-097** **Reductions in Greenhouse Gas Emissions by Using Wood to Protect Against Soil Liquefaction**
 Chihiro KAYO, Seiji HASHIMOTO,
 Atsunori NUMATA, Masanori HAMADA
- P-098** **Estimate of Future Life-Cycle CO₂ Emissions from All Commercial Buildings Based-on Socio-Economic Prediction**
 Kumi OKUMURA, Toshiharu IKAGA,
 Shun KAWAKUBO
- P-099** **Greenhouse Gas Reduction by Municipal Solid Waste Utilization Including Waste Biomass**
 Junya YANO, Shingo DEGUCHI,
 Takeshi MATSUDA, Yasuhiro HIRAI,
 Shin-Ichi SAKAI
- P-100** **Scenario Analysis of Sustainable Society Based on Urban-Rural Partnerships in Japan**
 Kazutoshi TSUDA, Bi Hong LOW,
 Toyohiko NAKAKUBO, Yusuke KISHITA,
 Keishiro HARA, Yasushi UMEDA
- P-101** **Estimation of Nitrogen Flow by Material Flow Analysis in Asian Mega-cities – Case of Bangkok City**
 Yonghai XUE, Toru MATSUMOTO,
 Yoshitaka ABE
- P-102** **A Study on the Environmentally Sustainable Eco-Design Practice for Complicate Product**
 Cheul-Kyu LEE, Kun-Mo LEE
- P-103** **Korea Rail Energy and GHG Footprint Assessment Using Input-output Analysis**
 Phirada PRUITICHAIWIBOON, Cheul-Kyu LEE,
 Yong-Ki KIM, Kun-Mo LEE
- P-104** **The Life Cycle Analysis of the Commuter Railway Line**
 Naoki AIHARA, Taro TSUJIMURA
- P-105** **Life Cycle Inventory of "C-ta" EV Concept Lightened by CFRP**
 Tetsuya SUZUKI
- P-106** **Scenario Analysis on Pulp and Paper Flow for the Design of Paper Recycling System**
 Naofumi MIYATA, Yasunori KIKUCHI,
 Masahiko HIRAO
- P-107** **Life Cycle Assessment on the Difference of Environmental Load by Distribution and Sales Process: Case Study of Soft Drink in Container**
 Ryoko MORIMOTO, Hirokazu KATO,
 Naoki SHIBAHARA
- P-108** **A Comparative Study on the Regime-Actor Analysis of End-of-Life Vehicles (ELV) Recycling between Japan and China**
 Yang GAO, Toru MATSUMOTO, He XU
- P-109** **Resource Concerns Associated with the Adoption of Electric Vehicles**
 Troy R HAWKINS, Laura SCHNEIDER,
 Matthias FINKBEINER,
 Anders Hammer STROMMAN
- P-110** **LCA of Energy-efficient Passenger Transport in a Swiss Peri-urban Region**
 Dominik SANER, Pascal MAGES,
 Annette KOEHLER, Stefanie HELLWEG



Poster Session

Poster session A (13:30-14:30) Numbers with underline
Poster session B (16:50-17:50) Numbers without underline

P-111 Visual Analysis of LCI Evolution: Approach and Concept

Harald Ernst OTTO

P-112 Illustrative Examples of the Effect of New Technologies and Management Strategies on the Carbon Footprint of New Zealand Pastoral Meat Products

Mark LIEFFERING, Stewart LEDGARD, Mark BOYES, Robert KEMP

P-113 Visual Analysis of LCI Evolution: Framework and Example

Harald Ernst OTTO

P-114 Structural Decomposition Analysis of the Automobile Gasoline Consumption and the Sensitivity Analysis

Yuriko GOTOH, Shigemi KAGAWA, Yuki KUDOH, Keisuke NANSAI

P-115 Case Study: Eco-Design of Electronics, Mobile Receipt Printer

Yu-Mi SHIN, Kun-Mo LEE, Chun-Youl BAEK, Yo-Han CHOI

P-116 Development of Inventory Database for Water Use for The Application to Water Footprint

Yuya ONO, Ken HORIGUCHI, Norihiro ITSUBO

P-117 A Study on Developing a Damage Factor of Diarrhea for Global Warming in LCIA

Longlong TANG, Norihiro ITSUBO

P-118 Damage Function on Human Health Caused by Road Transport Noise

Ryota II, Jun NAKATANI, Kiyoko Hasegawa KURISU, Keisuke HANAOKI

P-119 Development of Inventory Database for Environmental Analysis (IDEA)

Kiyotaka TAHARA, Toshio ONOYE, Kensuke KOBAYASHI, Ken YAMAGISHI, Shoichiro TSURUTA, Katsuyuki NAKANO

P-120 How Can We Construct the Marine Products LCI Data Corresponding to Catch Variability? – Case Study of Common Japanese Conger Caught in Sendai-Bay –

Kazuhiro WATANABE, Kiyotaka TAHARA

P-121 For Evaluation of Economic and Environmental Inducing Effect on the Lake New Town Project, Development of Koshigaya-City, Saitama, Japan

Toshiro OGASAWARA, Yutaka TONOOKA, Jee LI, Hiroki HONDO, Ryouta II

P-122 Environmental Life Cycle Assessment and Economic Ripple Effects Analysis for Events

Noriko MATSUNAGA, Norihiro ITSUBO

P-123 Industrializing Remote Area in Sarawak: Benefits of "Eco-CDM Halal Industrial Park"

Irfan SUNGKAR, Azhar JAMAL

P-124 The Balance Between Development and Conservation – Take Ecotourism in Kenting National Park in Taiwan

Yu Tsun CHANG

P-125 Life Cycle Environment Impact Assessment of a Golf Tournament

Hiroshi YAMAGUCHI, Ken HORIGUCHI, Longlong TANG, Masato HIRUMA, Naoya TAKAHASHI, Chieko HATAGUCHI, Norihiro ITSUBO

P-126 The Art of Sustainable Gardening

Jules BRUCK, Jon A COX

P-127 A New Program for Environmental Education Based on Industrial Products from a Lifecycle Point of View

Shinya MATSUMOTO, Asami NARITA, Hiroki INOUE, Yasutaka NAKAHARA, Eiko NAKAMURA

P-128 Development of Teaching Materials for Environmental Education Based on Battery Technologies

Yasutaka NAKAHARA, Asami NARITA, Shinya MATSUMOTO, Eiko NAKAMURA