



Poster Session

MONDAY

Management Challenges	
PMon01	Combining LCA, trade statistics and the national greenhouse gas inventory to determine the embodied greenhouse gas emissions caused by international trade Jungbluth, Niels ESU-services Ltd., Uster, Switzerland
PMon02	Life Cycle Assessment integrative part in continuous corporate decision-making Scharnhorst, Wolfram PE International GmbH, Leinfelden-Echterdingen, Germany
PMon03	Green Project Risk Management Tzann-Dwo, Wu Tung-Nang Institute of Technology, Taiwan, R.O.C., Taipei
PMon04	EMS and LCM in practice at Estonian national energy company Eesti Energia AS Lehtla, Reigo Eesti Energia AS / Tallinn University of Technology, Tallinn, Estonia
PMon05	Incorporating costs in LCA applying an Input-Output computational structure Settanni, Ettore University of Bari, Bari, Italy
Services	
PMon06	Integrating sustainability issues into property rating and valuation Lützkendorf, Thomas Universität Karlsruhe (TH), School of Economics and Business Engineering, Karlsruhe, Germany
PMon07	Environmental impacts of innovative ICT services, including indirect and rebounds effects Loerincik, Yves Ecointesys - Life Cycle Systems, Lausanne, Switzerland
PMon08	Local climate action: counting challenges Larsen, Hogne NTNU, Trondheim, Norway
PMon09	Evaluation of eco-efficient car life cycles during a five car models sequence in 35 years Maruschke, Julian BMW Group, Unterschleissheim, Germany
PMon10	Coupled cost and environmental life cycle modelling of composite car-bodies for a korean tilting train Joliet, Olivier University of Michigan, School of Public Health, Ann Arbor, United States of America
Biomaterials	
PMon12	Land use in LCA of biomaterials Garraín, Daniel GID-Engineering Design Group - University Jaume I, Castellon, Spain
PMon13	Scenario projections for future market potentials of bio-based bulk chemicals Dornburg, Veronika Utrecht University, Utrecht, Netherlands
PMon14	LCA of biocomposites versus conventional products Martinez, Pilar AIMPLAS Instituto Tecnológico del Plástico, Paterna, Spain
PMon15	Opportunities and Risks of Biopolymers for the Plastics Industry Chadha, Avrath ETH Zürich; Dept. for Management, Technology and Economics; Chair for Sustainability and Technology, Zürich, Switzerland
PMon16	Life cycle assessment of biopolymer nanocomposites Shen, Li Department of Science, Technology and Society (STS), University Utrecht, Utrecht, Netherlands
PMon17	Life cycle environmental analysis of hemp production for non-wood pulp González-García, Sara Department of Chemical Engineering, University of Santiago de Compostela, Santiago de Compostela, Spain
PMon45	Feasibility study of local biomass power plants in Spain J. Rodrigo, Simpple, Tarragona, Spain
Chemicals and Pharmaceuticals	
PMon18	LCA Analysis of Air-sorted Quartz Lancellotti, Isabella Università di Modena e Reggio Emilia, Modena, Dipartimento di Ingegneria dei Materiali e dell'Ambiente /, Modena, Italy
PMon19	Solvent extraction of propionic acid from discharged water in vitamin B12 production by anaerobic fermentation Huizhou, Liu Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China
PMon20	Absorbing benzene emissions by ionic liquids and magnetically rotational reactor for absorption Huizhou, Liu Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China
Eco-Efficiency	
PMon21	Playing with hyenas te Riele, Harry Erasmus University Rotterdam / Dutch research organisation for transitions, DRIFT, ROTTERDAM, Netherlands
PMon22	CPD - Product declarations for Environmental LCC Ciroth, Andreas GreenDeltaTC GmbH, Berlin, Germany
PMon23	Green project performance evaluation management Tzann-Dwo, Wu Tung-Nang Institute of Technology, Taiwan, R.O.C., Taipei
PMon24	Technological eco-efficiency analysis for power generation and transmission systems Parthey, Falko BTU Cottbus, Chair for Industrial Sustainability, Cottbus, Germany
PMon25	"Climate neutral products", a big step towards sustainable consumption Spindler, Ernst-Josef Vinnolit GmbH & Co. KG, Burghausen, Germany

PMon26	KlimaPro – Standardised quality criteria/tool to achieve climate neutral products Lehmann-Chadha, Martin EMPA, Technology & Society Lab, St. Gallen, Switzerland
PMon27	Integrating ecological aspects in sustainability evaluations of farms Meul, Marijke Institute for Agricultural and Fisheries Research, Mellebeke, Belgium
PMon28	Life cycle analysis of polystyrene and ethylbenzene-styrene production in Mexico Morales Mora, Miguel Angel PEMEX-PETROQUIMICA, Coatzacoalcos, Mexico
Social Responsibility	
PMon29	Quantitative assessment of social performances integrated in the LCA approach De Caebel, Bernard RDC, Brussels, Belgium
PMon30	Using Human Resource Features for Integrating Social Issues in LCA Steen, Bengt Chalmers University of Technology, Göteborg, Sweden
PMon31	Social Indicators in Life Cycle Inventory of steel products Ugaya, Cassia Universidade Tecnológica Federal do Paraná, Curitiba, Brazil
PMon32	Development of the evaluation method for social and environmental activities at the Chubu Electric Power Company Hasegawa, Takahisa Chubu Electric Power Co., INC., NAGOYA, Japan
PMon33	Enhancing corporate social responsibility in the Finnish food chain with a stakeholder dialogue Katajaluuri, Juha-Matti MTT Agrifood Research Finland, Jokioinen, Finland
PMon34	Socioeconomic indicators as a complement to LCA: The case of salmon production Kruse, Sarah Ecotrust, Portland, United States of America
Electronics	
PMon35	Virtualization of IT environments as ecological alternative in the data center Bersier, René IBM Switzerland, Zürich, Switzerland
PMon36	Microchip reuse: environmental rationale and design implications Geyer, Roland Bren School of Environmental Science and Management, University of California, Santa Barbara, USA
Process Development	
PMon38	Decision support towards to sustainable and functional process optimization Konstantas, Antonios Technical University of Berlin, Department of Systems Environmental Engineering, Berlin, Germany
PMon39	LCA of free-CO2 production of hydrogen through methane decomposition Dufour, Javier Rey Juan Carlos University, Mostoles, Spain
PMon40	High yield methane generation from wet biomass and waste Luterbacher, Jeremy Massachusetts Institute of Technology, EPFL and PSI, Cambridge, USA
PMon41	Use of Life Cycle Analysis in the technology development for obtaining a biosorbent Rodriguez Rico, Ivan Leandro Central University of "Las Villas", Santa Clara, Cuba
PMon42	Risk-based process development on device and operation: A case study of metal degreasing Kikuchi, Yasunori The University of TOKYO, Tokyo, Japan
PMon43	Environmental dimensionless variables in life cycle impact assessment: application to chemical process engineering Aldaco, Ruben Dpto Ingeniera Quimica Y Inorganica Universidad de Cantabria, Santander
Promoting Life Cycle Thinking UNEP/ SETAC	
PMon44	Achievements and deliverables of the UNEP/SETAC Life Cycle Initiative (Phase 1) – Our contribution to the global Life Cycle Community J. Fava, Five Winds International, West Chester PA, USA

TUESDAY

Design for Environment	
PTue01	Why ecodesign tools and methods do not really work Goedkoop, Mark PRé Consultants, Amersfoort, Netherlands
PTue02	Green Project Life Cycle Management Tzann-Dwo, Wu Tung-Nang Institute of Technology, Taiwan, R.O.C., Taipei
PTue03	Ecodesign of a dispensing closure for plastic packaging Dobon, Antonio Itene (Packaging, Transport and Logistics Research Institute), Godella, Spain
PTue04	Life Cycle Analysis and assessment of vending machines, and ecolabel Kimura, Yukio Fuji Electric Retail Systems Co., Ltd., Yokkaichi City, Japan
PTue05	The way to life cycle management of refrigerators in Poland Kurczewski, Przemyslaw Poznan University of Technology, Poznan, Poland
Industrial Ecology	
PTue06	Material Flow Accounting of Spain (1980-2004) Sojo, Amalia Centro de Análisis de Ciclo de Vida y Diseño Sustentable, Cuautitlán, Izcalli, Mexico
PTue07	A Sustainable model for Italian industrial areas Tarantini, Mario ENEA Italian National Agency for New Technologies, Energy and the Environment, Bologna, Italy
PTue08	Analyze of the air pollution in an industrial zone Milosan, Ioan Transilvania University of Brasov, Brasov, Romania
PTue09	Application of industrial ecology system by applying life cycle analysis: A case study in a palm oil mill Weeraratne, Waduruwa Muhandiramlage Jayantha faculty of science and technology, University Kebangsaan Malaysia, Bangi, Malaysia

Energy efficiency and generation	
PTue10	Life-cycle assessment, a tool to define priorities in managing greenhouse gas emissions Gagnon, Luc Hydro-Quebec, Montreal, Canada, Gagnon
PTue11	Towards a dynamic LCA for a relevant sustainability analysis Benoit, Anthony Center for Energy and Process - Mines Paris, Paris, France
PTue12	'Critical situation' based life cycle impact assessment of power plants Sadamichi, Yucho Faculty of Engineering, Chiang Mai University, Muang, Thailand
PTue13	Ecological assessment of SNG from wood for current heating and car systems Felder, Remo Paul Scherrer Institut, Villigen PSI, Switzerland
PTue14	Life Cycle Assessment as decision support for optimum use of biogas effluents Rehl, Torsten University Hohenheim, Stuttgart, Germany
PTue15	Technology of biogas production by monofermentation of energy crops: Life Cycle Management approach Benetto, Enrico CRP H. TUDOR/CRTE, Esch/Alzette, Luxembourg
PTue16	Life Cycle Assessment of two bioenergy systems in Mediterranean regions Martinez, Carles Institut de Ciencia i Tecnologia Ambiental de la Universitat Autònoma de Barcelona (UAB), Cerdanyola del Vallès, Spain
PTue17	Biofuels LCA aspects based on a practical case of inland waterways transport Richard, Jacques University of Applied Sciences of Geneva, Genève, Switzerland
PTue18	Life Cycle Management of jatropha bio-diesel in Thailand Sampattagul, Sate Faculty of Engineering, Chiang Mai University, Muang, Thailand
PTue19	A review of life cycle analysis of biodiesel Pandey, Shubha, The energy and resources institute (Teri), New Delhi, India
PTue20	Life Cycle Management for a product innovation with a new photovoltaic technology- Dye Solar Cell Pastewski, Nico Fraunhofer Gesellschaft, IAO, Stuttgart, Germany
PTue21	Life Cycle Assessment of a marine current turbine for cleaner energy production Cavallaro, Fausto Dip. SEGes - University of Molise, Campobasso, Italy
Environmental Communication	
PTue22	Environmental Communication through Environmental Product Declaration Heilmann, Andrea Hochschule Harz, Wernigerode, Germany
Agriculture and Food Production	
PTue23	Assessing sustainable carbon flows by linking sink capacities of land with LCI-data Wollenmann, Regina Andrea Institute of Terrestrial Ecosystems, Zürich, Switzerland
PTue24	LCA of imported agricultural products – impacts due to deforestation and burning of residues Jungbluth, Niels ESU-services Ltd., Uster, Switzerland
PTue25	Investigating diverging system perspectives with the Mental Model Approach Schoell, Regina SIE, Geographisches Institut, Universität Zürich, Zürich, Switzerland
PTue26	Relating environmental impacts to income indicators at the farm level: Analysis of accountancy and traceability data in Japan Hayashi, Kiyotada National Agriculture and Food Research Organization, Tsukuba, Japan
PTue27	Protein-rich food chains Sevenster, Maartje CE Delft, Delft, Netherlands
PTue28	Decontamination of meat with Sono-Steam – environmental aspects Schmidt, Anders FORCE Technology, Kongens Lyngby
PTue29	Environmental analysis of the production of alfalfa Gallego, Alejandro, University of Santiago de Compostela (Spain), Santiago de Compostela, Spain
PTue30	Environmental indicators and life cycle assessment of apple production and import in Spain Soler-Rovira, Jose Departamento Produccion Vegetal: Fitotecnica, EUIT Agrícola, Universidad Politécnica de Madrid, Madrid, Spain
Consumer Products	
PTue31	Implementing the precautionary principle through stakeholder engagement for product and service development Cucuzzella, Carmela University of Montreal, Montreal, Canada
PTue32	Development and application of a LCM tool to support optimisation of packaging systems for the food and beverage industries Home, Ralph Centre for Design, School of Architecture and Design, Melbourne, Australia
PTue33	Influence of water consumption during the Life Cycle of soft drink production Rosa Domínguez, Elena Central University of Santa Clara, Santa Clara, Cuba
Scenario Assessment	
PTue34	Concept development for a prospective canadian federal government sustainability-tracking program Bacchus, Paul Environment Canada, Gatineau, Canada
PTue35	Integrated tools of environmental management and local development: Djerba (Tunis) application Giuseppe, Ippolito Università degli Studi di Messina-Dip. studi su Risorse Impresa Ambiente e Metodologie quantitative, Messina, Italy
PTue36	Agricultural landscape evolutionary scenarios of a Unesco cultural site: the Cinque Terre Park in Italy Lombardi, Patrizia Polytechnic of Turin, Turin, Italy
PTue37	Car recycling solutions in Poland in the light of environmental consequences Lewicki, Robert Poznan University of Technology, Poznan, Poland
PTue38	LCA of new communicative devices: constraints and opportunities Zayas, Jose ITENE (Packaging, Transport and Logistics Research Institute), Godella, Spain

Metals	
PTue39	Avoided burden approaches applied on recycling of materials in view of the ISO standards and the eco-efficiency concept Frischknecht, Rolf,ecoinvent Centre, Dübendorf, ESU-services, Uster, Switzerland
PTue40	LCA as a tool for controlling the development of technical activities: application to the treatment unit of surface SIHEM, TIRECHE Université M'hamed Bougara, Boumerdès, Algeria
PTue41	The ferrous dusty wastes in the romanian steel industry;Characteristics and processing trials Gheorghe, IORGA Metallurgical Research Institute,Bucharest, Romania
PTue42	A Study on the estimation of calculation guideline about emissions of GHGs in nonferrous metal industries Chung, Jin-DO Hoseo University, Asan, Republic of Korea
PTue43	Refining and recycling of the nickel based heat-resistant alloys used in Aviation Maksyuta, Innola Phisical-Technological Institute for Metals and Alloys, NASU, Kyiv, Ukraine, Kyiv, Ukraine

WEDNESDAY

Emerging Countries	
PWed01	How to foster LCM adoption in developing countries Gonzalez, Arturo Universidad Iberoamericana, Santa Fe Campus, Mexico City, Mexico
PWed02	Design and sustainability: Project parameters in emerging countries Gauer José, Regina University of São Paulo – Faculty of Architecture and Urbanism, São Paulo, Brazil
PWed03	"Repairing" to lengthen products' life cycle. Considerations in Mexico. Fact & possibilities Velasco Becerra, Martha Elena, Barcelona, Spain
PWed04	Establishing Brazilian off-set paper database on EcoSpold Format Kulay, Luiz Alexandre USP, São Paulo, Brazil
PWed05	Normalization in LCA: review and discussion Rodrigues Sousa, Sabrina Universidade Federal de Santa Catarina (UFSC) - Campus Trindade, Florianópolis, Brazil
PWed06	Selección de materiales: ACV* en elementos de unión roscados para tubería Fúquene, Carlos Eduardo Pontificia Universidad Javeriana, Bogota, Colombia
PWed07	ACV application in starch production focusing biodegradable plastics manufacture in Brazil Allgauer, Katlen Universidade Estadual de Campinas, Campinas, Brazil
PWed08	Emissions of greenhouse gas during the life cycle of façades of commercial buildings Taborianski, Vanessa Montoro University of São Paulo, São Paulo, Brazil
PWed09	A strategy to improve global water resource use efficiency for agricultural crops. Estrategia para optimizar la eficiencia del uso del agua en la producción agrícola De Leon Cifuentes, Willian Erikirta Cabrils, Spain
PWed10	Life Cycle Assessment of olive oil in a Syrian dry area Saadé, Myriam University of Lausanne, Lausanne, Switzerland
PWed11	Sustainability management of supply chains – Case study of a peruvian mining company Valdivia, Sonia Pontificia Universidad Catolica del Peru / UNEP DTIE Paris, Paris
PWed12	Proposta de um modelo para aplicação da avaliação de ciclo de vida na análise ambiental de fluidos de corte empregados nas indústrias do setor metal mecânico de Paula Dias, Alexandre Magno Universidade Federal de Santa Catarina/Depto de Eng. San. e Ambiental, Florianópolis, Brazil
Waste Management	
PWed13	The reuse of the armed polyester fiber glass wastes Negrea, Petru Politehnica University of Timisoara, Romania, Timisoara, Romania
PWed14	LCA of thermoplastics recycling Garrain, Daniel GID-Engineering Design Group - University Jaume I, Castellon, Spain
PWed15	Recover of the Zn, Cu and Co ions from the bottom ash resulted from the hazardous materials incineration Ciopec, Mihaela Politehnica University of Timisoara, Romania, Timisoara, Romania
PWed16	The obtaining of iron red pigment from sludge resulted by spent acid neutralization Lupa, Lavinia University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania
PWed17	Hybrid Life Cycle Inventories of municipal solid waste incineration Butnar, Isabela Rovira i Virgili University, Tarragona, Spain
PWed18	Methodology to determine the categories for environmental impacts in composting plants Cadena, Erasmo Universitat Autònoma de Barcelona, Cerdanyola del Vallès, Spain
PWed19	Study of treated crumb rubber waste in cement stabilized soil blocks Parasivamurthy, Prakash C.M.R.T.U, R.V.Vidyanekatan, R.V.C.E, Bangalore, BANGALORE, India
PWed20	Post-industrial packaging material for designers delight: Socially responsible fashion products Musmanni, Sergio National Cleaner Production Center, San José, Costa Rica
PWed21	The viscious cycle of ocean pollution as a result of offshore and onshore petroleum activites in the Abubakar, Babagana Independent Researcher, Sunlere, Nigeria
PWed 44	Application of Life Cycle Assessment to integrated solid waste management in Chihuahua (PWed44) Gomez, Guadalupe et al., Universitat Rovira i Virgili, Tarragona, Spain

Building and construction	
PWed22	Sustainable development within the building sector: application in developing countries Ortiz, Oscar University of Rovira i Virgili, Tarragona, Spain
PWed23	With LCM towards a more environmentally friendly built environment in New Zealand Kellenberger, Daniel Scion, Rotorua, New Zealand
PWed24	LCA of innovative high energy performance envelope Monticelli, Carol Politecnico di Milano - Dept. BEST, Milano, Italy
PWed25	Life Cycle Assessment of buildings comparing structural steelwork with other construction techniques Passer, Alexander Institute of Technology and Testing of Building Materials, Graz University of Technology, Graz, Austria
PWed26	Utilization of industrial waste materials in production of shell concrete elements Cechmanek, Rene Research Institute of Building Materials, Brno, Czech Republic
PWed27	LCA of a prefabricated concrete shed produced by a sicilian firm Siracusa, Giuseppe Department of Physical and Chemical Methodology for Engineering, University of Catania, Catania, Italy
PWed28	LCM implications of building products from riverine dredged materials Watts, Daniel New Jersey Institute of Technology, Newark, United States of America
PWed29	Life Cycle Management of oriented strand board (OSB3) production Benetto, Enrico CRP H. TUDOR/CRTE, Esch/Alzette, Luxembourg
PWed45	Identifying Priorities of Carbon Dioxide Reduction Policy for Buildings Using Life-cycle Approach S. Lo, Architecture and Building Research Institute, Ministry of the Interiors, Taipai County, Taiwan
Simplified Methods	
PWed30	Exergetic Life Cycle Assessment: a resource consumption and resource efficiency assessment tool Dewulf, Jo Ghent University, Ghent, Belgium
PWed31	LCA-thinking in development on company development Braunschweig, Arthur E2 Management Consulting AG, Zürich, Switzerland
PWed32	Design for compliance - a LCA based application in the electronic industry Held, Michael University of Stuttgart, Chair of Building Physics (LBP), Department Life Cycle Engineering, Leinfelden-Echterdingen, Germany
Tools & Databases	
PWed33	The Ecotool COM.PRO: a decision support model for the environmental building design Giordano, Roberto Polytechnic University of Turin, Turin, Italy
PWed34	Building life cycle tools for building components and industrial product Allione, Cristina Politecnico di Torino, Pinerolo, Italy
PWed35	Calculations for automotive equipments with an integrated product-process model Alber, Sebastian Institut of Technology and Sustainable Product Management, Vienna, Austria
PWed36	Development of environmental datasets for the aluminium industry: The experience of the European Aluminium Association Leroy, Christian European Aluminium Association, Brussels, Belgium
PWed37	A study of co-product allocation rules in creating Life cycle inventory Curran, Mary Ann US Environmental Protection Agency, Cincinnati, USA
PWed38	Key factors of differences in European municipal solid waste incineration plants Fröhlich, Markus Institute of Waste Management, University of Natural Resources and Applied Life Sciences, Vienna, Austria
PWed39	Updating LCI databases: Experience and challenge Fischer, Matthias University of Stuttgart, LBP, Dept. Life Cycle Engineering (GaBi), Echterdingen, Germany
PWed40	Improving the Life cycle assessment by improving the indoor air quality Rühle, Thomas Intep - Integrale Planung GmbH, München, Germany
PWed41	Applicability of green purchasing guidelines in the Scandinavian countries Leire, Charlotte International Institute for Industrial Environmental Economics, Lund, Sweden
PWed42	Selecting soil remediation techniques using sustainable life cycle management: Methodology and case study Navarro, Jennifer Universitat Rovira i Virgili, Tarragona, Spain
PWed43	New ways for Hungarian LCA Szita Tóth, Klára University of Miskolc, Miskolc, Hungary