

**Tuesday, 1 July 2003**

**3:30 PM – 5:30 PM**

**Poster Session (P2)**

**Phelps Lounge**

*\* indicates presenting author*

*Quantitative Comparisons of Downcycling and Closed-Loop Recycling* (Bailey\*, Allen, Bras)

*Comparing Material Cycling in Natural and Industrial Systems* (Bailey)

*Inclusion of Sustainable Development Principles in Product Development: Challenges and Opportunities* (Baki\*, Wang)

*Assessment of the Pollution Prevention Potential of MSW Gasification for Integrated Solid Waste Management Using Life-Cycle Analysis* (Barlaz\*, Frey, Li)

*International Comparison of Material Resource Use -The Development of Total Material Requirement, Direct Material Inputs and Hidden Flows and the Structure of TMR* (Bringezu\*, Moll, Schütz, Steger)

*The Case of Hsinchu Science-based Eco-Industrial Park* (Chung\*, Kung)

*Bioregional Development: An Analysis of the Environmental Implications of Local "Closed Loop" Graphics Paper Recycling* (Hart, Clift\*)

*LCAccess: An On-Line Directory for Global Life Cycle Assessment Information and Data* (Curran\*, Skone)

*Life Cycle Assessment of Food and Beverage Packaging as a Tool for Policy Definition: The Portuguese Case Study* (Ferrão\*, Ribeiro, Silva)

*Infrastructure for the Industrial Ecology of the Automobile: the Portuguese Case Study* (Ferrão\*, Amaral)

*Eco-Parks for Eco-Development: Part 2* (Gorden)

*Environmental Impact Analysis of Engineering Materials by Analytic Hierarchy Process* (Weng, Shi, Graedel\*)

*Rapid Enumeration of Bacteria for Microbial Stabilization in Metalworking Fluids* (Chang, Rihana, Gruden\*, Skerlos, Adriaens)

*Life-Cycle Analysis in the Context of General Equilibrium Economic Growth: The Case of Advanced Vehicles, Fuels, and Infrastructure* (Hanson\*, Vyas, Melaina, Laitner)

*A Plan for Japanese Forestry Reconstruction as Energy-Material Coproduction Industry* (Horio\*, Aoyagi, Noda)

*Life Cycle Environmental Impacts of Telecommunication Networks and Telemonitoring System* (Loerincik, Matas, Jolliet\*)

*Facilitating Policies for Sustainable Industrial Systems Stock Based Indicators for Redistribution of Cadmium to Swedish Arable Soils* (Karlsson\*, Fredrikson, Holmberg)

*Developing an Inspection and Maintenance Policy for High-Emitting Automobiles Using Reliability Analysis of Emission Control Systems* (Kim\*, Keoleian, Bulkley)

*Long-run Perspectives of Global Copper Material Flow: The Environmental Impact* (Poganietz, Kuckshinrichs\*, Zapp)

*Material Flow Cost Accounting for Evaluation of Urban Organic Resource Circulation* (Matsumoto\*, Zuo, Iwao)

*Construction of a Visualization and Decision-Making Tool for Co-location of Facilities in Eco-Parks* (Matthews\*, Marriott)

*Resource Recovery of Industrial Minerals - Synergies between the Alum and Portland Cement Industries* (Merrell)

*A Basic Analysis of Transport-related Environmental Features and Their Socio-economic Background in Asian Countries* (Sakurada, Masumoto, Tsuchiya, Komeiji, Hayashi, Yagishita, Kato, Doi, Suzuki, Moriguchi)

*Applicability of Integrated Environment-Quality Design Approach to Services: the Case of Lodging Activities* (Petti\*, Raggi)

*The Logic of the Consumer Economy* (Princen)

*A Framework for the Selection and Optimization of Energy Systems for Buildings* (Osman, Ries\*)

*Scenario Construction for Sustainable Agricultural Production* (Sonesson\*, Berg, Gunnarsson, Nybrant, Stern, Öborn)

*From Regional to Global: Zinc Stocks and Flows Analysis at Multiple Levels* (Spatari\*, van Beers, Bertram, Gordon, Graedel, Gritsinin, Harper, Kapur, Klee, Lifset, Memon)

*Energy as an Indicator for Environmental Impact from Materials and Products* (Svensson\*, Mårtensson, Eklund, Roth)

*Lifetime-Involved Substance Flow Analysis of Durable Goods: A Case Study of Brominated Flame Retardants in TV Sets in Japan* (Tasaki\*, Osako, Sakai)

*Benchmarking to Trigger and Sustain Eco-Efficiency in SMEs* (Altham, van Berkel\*)

*Innovation in Response to the Sustainability Challenges in Minerals Processing* (van Berkel)

*Advanced Sustainability Analysis for Industrialised Countries* (Vehmas\*, Kaivo-oja, Luukkanen)

*Resource Use of the EU 15 1980-2000: Lessons from the Revised Estimate* (Weisz\*, Amann, Eisenmenger, Krausmann)

*Partnership Between Universities and SMEs in Sustainable Development* (Wennersten\*, Brandt)