

Conference Program - 2nd Conference on Life Cycle Assessment of Waste 2018

Tuesday June 19th

Time	Session and talks	Speaker
08.30	Plenary lecture	
09.00	Session 1: Quality and impurities of materials	Chairman: Dr. Lucia Rigamonti Politecnico di Milano, Italy
	- Quality of plastic waste – implications for recycling	Helena Dahlbo Finnish Environment Institute SYKE, Finland
	- Combining circularity and LCA: Quality assessment and substitutability of recycled plastic from household waste	Marie Erikssen Technical University of Denmark, Denmark
	- The role of impurities at recycling stations	Giorgia Faraca Technical University of Denmark, Denmark
10.30-11.00	Break	
11.00-12.30	Session 2: Complementarity between Risk Analysis and LCA	Chairman: Prof. Thomas Astrup Technical University of Denmark, Denmark
	- An integrated experimental and modelling approach to evaluate the environmental impacts of residual resources for LCA and risk assessment	Giulia Costa University of Rome "Tor Vergata", Italy
	- Chemicals in waste materials and life cycle assessment (LCA)	Kostyantyn Pivnenko Technical University of Denmark, Denmark
12.30	Lunch – Free/Ad Hoc Sessions	
14.30	Poster session with refreshments	
15.30-17.00	Session 3: Uncertainty Assessment in Residual Resources	Chairman: Dr. Dominique Guyonnet BRGM, France
	- Uncertainties in material flow analysis (MFA) illustrated through a preliminary analysis of Cobalt flows in the EU	Dominique Guyonnet BRGM, France
	- Quantification of uncertainty in LCAs of waste management systems: methods and future challenges	Valentina Bisinella University of Southern Denmark
	- Benefits of using importance analysis: reflections from the LCA of a urban biorefinery using urban organic waste (RES URBIS)"	Alessio Boldrin Technical University of Denmark, Denmark
17.00-17.30	Session 4: Modelling of future Scenarios	Chairman: Professor Henrik Wenzel University of Southern Denmark
	- Integration of Energy Systems Analysis (ESA) with waste LCA to account consequences of present and future waste-to-energy (WtE)	Ciprian Cimpan University of Southern Denmark
	- Scenario based models in the consequential LCA of source separated organic household waste management in Denmark	Henrik Wenzel University of Southern Denmark
	- Future scenarios within LCAs of waste management systems	Valentina Bisinella University of Southern Denmark

Wednesday June 20th

Time	Session and talks	Speaker
08.30	Plenary lecture	
09.00	Session 5: Optimization of systems	Chairman: Dr. James Lewis North Carolina State University, USA
	- Toward a parametrized and modular framework based on the integration of MFA and LCA for the optimization of municipal solid wastes management	Guillaume Majeau-Bettez Polytechnique Montréal, Canada
	- Multistage Life-Cycle Optimization for Developing and Evaluating Current and Future Solid Waste Systems	James Lewis North Carolina State University, USA
	- Is there an environmentally optimal separate collection rate?	Melanie Haupth ETH, Switzerland
10.30-11.00	Break	
11.00-12.30	Session 6: Assessment of local impacts in LCA: challenges and perspectives	Chairman: Dr. Davide Tonini Joint Research Centre of the European Commission, Sevilla, Spain
	- Sustainability analysis: local to global impacts in the urban waste management sector	Sue Ellen Taelman Universiteit Gent, Belgium
	- Environmental modelling of cement concrete waste management combining LCA, MFA, and a local market economic model	Anna Ventura University of Nantes, France
	- Regionalised LCA of sulphidic tailings disposal	David Turner Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland
12.30	Lunch – Free/Ad Hoc Sessions	
14.30	Poster session with refreshments	
15.30-17.00	Session 7: Model development, documentation & data quality - I	Chairman: Professor Morton Barlaz North Carolina State University, USA
	- Solid Waste Infrastructure Modelling System: A non-linear dynamic LCA and MFA tool for solid waste infrastructure planning.	Keiron Roberts University of Southampton, United Kingdom
	- Life-Cycle Model Development and Transparency: Challenges and Choices	Morton Barlaz North Carolina State University, USA
	- CVORR: Complex value optimization for resource recovery from waste – a new tool	Costas Velis University of Leeds, United Kingdom
17.00-17.30	Session 8: Model development, documentation & data quality - II	Chairman: Professor Morton Barlaz North Carolina State University, USA
	- How do we address data Quality in LCA of waste technologies	Anders Damgaard Technical University of Denmark
	- The value of high-resolution MFA data for LCA of waste management systems: considering waste compositions and material efficiencies	Emile Van Eygen Technical University of Wien, Austria

Thursday June 20th

Time	Session and talks	Speaker
08.30	Plenary lecture: When is better good enough? LCA for absolute sustainability assessments	Michael Hauschild?
09.00	Session 9: New developments in Material Flow Assessment?	Chairman: Pending
	- Phosphorus And Nitrogen Management In Austria As An Example For The Benefits Of Coupled Resource Analysis	Helmut Rechberger Technical University of Wien, Austria
	- MFA of source separated plastics in Italy	Mario Grosso Politecnico di Milano, Italy
	- System perspective in material flow analysis for LCA studies	Kostyantyn Pivnenko Technical University of Denmark, Denmark
10.30-11.00	Break	
11.00-12.30	Session 10: New developments in assessment methods for residual resources	Chairman: Dr. David Laner Technical University of Wien, Austria
	- Methodological issues in life cycle assessment of residual resources management	Ola Eriksson University of Gävle, Sweden
	- Waste as resource for a circular bioeconomy: Confronting zero-burden assumptions for organic residues	Johanna Olofsson Lund University, Sweden
	- Wood waste in a circular economy - dynamic accounting of greenhouse gas emissions from resource cascading	Giorgia Faraca Technical University of Denmark, Denmark
	- Statistical entropy to evaluate the resource efficiency of recycling systems: Phosphorus use in Austria	David Laner Technical University of Wien, Austria
12.30	Lunch – Free/Ad Hoc Sessions	
14.30	Poster session with refreshments	
15.30-17.00	Session 11: Bioenergy modelling	Chairman: Prof. Thomas Astrup Technical University of Denmark, Denmark
	- Alternative strategies for biomethane production from biowaste: Methodological aspects of an LCA study	Filomena Ardolino University of Campania, Italy
	- Novel approach for LCA modelling of biotechnologies in EASETECH	Concetta Lodato Technical University of Denmark, Denmark
	- Choice of energy recovery system for waste gasification system through multifarious assessment	Lijie Yin Tongji University, China
	- Co-digestion of food wastes and residues from the dairy industry. An intro for a discussion of how to integrate demand driven production in LCA	Julika Knapp Alps gmbh, Austria
17.00-17.30	Session 12: The role of reuse and prevention in residual resource systems	Chairman: Prof. Mario Grosso Politecnico di Milano, Italy
	- LCA of packaging re-use in Italy	Lucia Rigamonti Politecnico di Milano, Italy
	- Environmental assessment of surplus food management in the retail sector	Paola Federica Albizzati

		Technical University of Denmark, Denmark
	- On the Environmental impacts of food waste: Case study results and methodological challenges	Davide Tonini Joint Research Centre of the European Commission, Sevilla, Spain

Friday June 20th

Time	Session and talks	Speaker
08.30	Plenary lecture	
09.00	Session 13: Economic modelling of residual resource systems	Chairman: Pending Technical University of Denmark, Denmark
	- Combining LCA and cost assessment to evaluate the effect of economic incentives for increased and improved biogas production in Norway	Kari-Anne Lyng Ostfold Research, Norway
	- How to extend the Extended Producer Responsibility along the value chain of plastic packaging waste	Susanna Andreasi Bassi Technical University of Denmark, Denmark
	- Life Cycle Cost Assessment of waste systems – Challenges and outlook	Thomas Astrup Technical University of Denmark, Denmark
10.30-11.00	Break	
11.00-12.30	Session 14: LCA in policy making for residual resources	Chairman: Dr. Alessio Boldrin Technical University of Denmark, Denmark
	- Challenges of Interpreting Life Cycle Assessment Results to Inform Solid Waste Management Policy	Susan Thornloe US EPA, USA
	- Replacing Recycling Rates with Life Cycle Metrics as Government Materials Management Targets	Timothy G. Townsend University of Florida, USA
	- What is the question and how do we communicate it? An example of plastic bags in Denmark.	Anders Damgaard Technical University of Denmark, Denmark
12.30	Lunch – Free/Ad Hoc Sessions	