

LCA Symposium 2025 at TU Wien – 16 June 2025 – Programme Overview

- 08:30-09:00 Registration, Get-Together
- 09:00-09:10 **Opening: Rector Jens Schneider**
- 09:10-09:30 Papadokonstantakis S: Introduction to the LCA Symposium 2025
- 09:30-10:30 **Block I (Process Engineering)**
Short presentations (Abbas S, Zervopoulou S, Horn E, Lehmann T, Köck B, Dimand D, Mora Fuentes J)
- 10:30-11:00 **Coffee break** + Poster Session
- 11:00-11:15 **Keynote I: Oliver Cencic:**
Dealing with Uncertain Data
- 11:15-12:15 **Block II (Civil Engineering / Architecture)**
Short presentations (Parravicini V, Rosenfeld C, Stieldorf K, Orehounig K, Gruber M, Citic I / Sprachowitz F, Valente M, Pont U)
- 12:15-13:15 **Lunch break – Buffet**
- 13:15-13:45 **Keynote II: Michael Narodoslawsky:**
Normative Basis of Impact Assessment Methods for LCA
- 13:45-14:45 **Block III (Mechanical Engineering)**
Wimmer W: Research Group for Ecodesign - 15 min
Short presentations (Keimel K, Pamminger R, Marouschek N, Lischka G, Trautner T, Baumüller J)
- 14:45-15:15 **Coffee break** + Poster Session
- 15:15-15:45 **Block IV (Electrical Engineering / Computer Science / Other Universities)**
Short presentations (Franz M, Biffi S, Rixrath D-University of Applied Sciences Burgenland, Kral I / Kern T-BOKU University)
- 15:45-16:30 **Panel discussion**
- 16:30-17:30 Networking, informal discussions with drinks and snacks

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08:30-09:00 Registration, Get-Together

09:00-09:10 Opening: [Rector Jens Schneider](#)

09:10-09:30 [Stavros Papadokonstantakis](#): Introduction to the LCA Symposium 2025

09:30-10:30 **Block I (Process Engineering)**

[Safdar Abbas](#): From fingerprints to footprints: bridging lab-scale to industrial reality through prospective life cycle assessment

[Stavroula Zervopoulou](#): Framework for LCA/LCC, Scalability and Modelling of the Biomass Waste Supply Chain for Sustainable Aviation Fuel (SAF) Production in the EU
[Elias Nino Horn](#): Critical Aspects and Tools for Designing Circular Processes within the Chemical Industry

[Mayuki Cabrera González](#): Economic and Environmental Assessment of Lactic Acid Production from Industrial Waste in Europe: Effects of Process Improvements, Scale-Up, Energy Source, and Market Condition (Poster only)

[Trond Lehmann](#): Modernizing LCA Modelling for Wastewater Treatment: A Python-based Tool for Impact Assessment

[Bianca Köck](#): Automated Life-Cycle Assessment Pipeline for Sustainable University – Procurement: Concept and Pilot at TU Wien

[Diana Dimand](#): Membrane-based biogas upgrading to biomethane

[Juan Diego Mora Fuentes](#): Life Cycle Assessment of coca leaf utilization in Cauca region of Colombia: environmental and socio-economic analysis across production pathways

10:30-11:00 **Coffee break** + Poster Session

11:00-11:15 **Keynote I:** [Oliver Cencic](#): Dealing with Uncertain Data

11:15-12:15 **Block II (Civil Engineering / Architecture)**

[Vanessa Parravicini](#): Life cycle assessment applications and challenges in the wastewater sector

[Daniel Cenk Rosenfeld](#): Development of a method and presentation option for greenhouse gas savings at TU Wien

[Thomas Bednar](#): Tasks facing the construction industry to implement Directive (EU) 2024/1275 (Energy performance of buildings) in OIB RL6&7 (Poster only)

[Karin Stieldorf / Astrid Schneider](#): BIM4BIPV Building Information Modelling for Building Integrated Photovoltaics

[Kristina Orehounig](#): Renovate or replace – Finding the optimal decision for buildings considering cumulative CO₂ emissions

[Michael Gruber](#): Greenhouse Gas Emissions in Hot Mix Asphalt Production: A Life Cycle Analysis for Sustainable Construction

[Isidora Citic / Fabian Sprachowitz](#): Asphalt mixture without fresh bitumen? Findings from the NOBIT research project

[Marius Valente](#): Circular Timber – Durability with Horizons

[Ulrich Pont](#): Reuse-Woodhouses - Approaches to Circularity for prefabricated Timberhouses

12:15-13:15 **Lunch break – Buffet**

- 13:15-13:45 **Keynote II: Michael Narodoslawsky:** Normative Basis of Impact Assessment Methods for LCA (TU Graz)
- 13:45-14:45 **Block III (Mechanical Engineering)**
Wolfgang Wimmer: Introduction to the Research Group for Ecodesign (15 min)
Kylian Keimel: Calculation of the Product Carbon Footprint for Informed Decision-Making in the Early Stages of Product Development Using the Web-Based Tool ECODESIGN+
Rainer Pamminger: LCA towards environmentally improved solutions applied on a powertrain for electric trucks
Niklas Marouschek: Life Cycle Assessment of a fuel cell electric tractor including hydrogen production
Gregor Lischka: Development of a Software tool for determining the holistic emissions in terms of an LCA approach for vehicle fleets in Europe
Thomas Trautner: Enabling Transparent and Verifiable Product Carbon Footprints through Digital Product and Process Passports
Josef Baumüller: From LCA to Activity-Based GHG-Management
- 14:45-15:15 **Coffee break** + Poster Session
- 15:15-15:45 **Block IV (Electrical Engineering / Computer Science / Other Universities)**
Manuela Franz: Land use of energy landscapes – Proposal for a multi-criteria assessment methodology for micro regions
Stefan Biffel: LCA value proposition with technical contributions and data analysis
Doris Rixrath: The Josef-Ressel Centre “Linked System Assessment to Support Sustainable Energy Supplies (LiSA)” (University of Applied Sciences Burgenland)
Iris Kral / Theresia Kern: The “BOKU-LCA Plattform” (BOKU University)
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