

PROGRAMME BOOK



SETAC EUROPE 27TH LCA CASE STUDY SYMPOSIUM

19-21 OCTOBER 2026 • BRUGES, BELGIUM

*DESIGNING TOMORROW: ADVANCING LIFE CYCLE APPROACHES FOR
EUROPEAN SUSTAINABILITY INITIATIVES.*



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VENUE WIFI

Network:
BMCC Public



ONLINE PLATFORM

For the most up-to-date programme, scan the QR code to visit the online meeting platform.



WELCOME TO BRUGES

Few cities have coexisted with time quite like Bruges. Its cobblestones have been polished by seven centuries of footsteps, its canals have carried merchants, monks and swans alike, and its skyline has barely changed since the Middle Ages. For the next three days, it will host several hundred life-cycle assessment researchers, arguably a profession as preoccupied with the past (data collection, reference systems and allocation decisions) as with the future. This year’s theme, “Designing Tomorrow: Advancing Life-Cycle Approaches for European Sustainability Initiatives,” suits the setting well: a city that has spent centuries deciding what to preserve, now hosting a community devoted to deciding what to change.

The Programme Committee, chaired by Prof. Jo Dewulf and Dr. Erasmo Cadena, and our Local Organising Committee at Ghent University have built a scientific programme spanning the full breadth of life cycle thinking today, from Safe and Sustainable by Design and biodiversity footprinting to circularity indicators and emerging European policy frameworks. Across three days of keynotes, platform sessions and posters, we hope you find not only the latest advances in your own field, but also a reason to wander into a session outside it.

When the programme allows, step outside the Bruges Meeting & Convention Centre and explore the city. Climb the Belfry for a view over the rooftops, get gently lost around the Markt or take a boat along the canals that gave Bruges its nickname, “the Venice of the North.” Belgians were practising circularity long before it had a name; ask any local brewer what happens to the grain residue once the beer is brewed. Bruges will also, with little effort on your part, ensure that chocolate, fries, waffles and beer take centre stage in your personal experience this week.

We are grateful to the Scientific and Local Organising Committees, the SETAC Europe office, our session chairs and volunteers, and our sponsors, partners and exhibitors for their support. We very much look forward to welcoming you to Bruges and to designing tomorrow together.

Jo Dewulf and Erasmo Cadena
*Chair, SETAC Europe 27th LCA Symposium Programme Committee
Ghent University, Belgium*

SETAC EUROPE PARTNERS

Thank you to our SETAC Europe partners for their support in helping us advance environmental science and management.



PROGRAMME COMMITTEE

SCIENTIFIC COMMITTEE

- Jo Dewulf (Chair), Ghent University, Belgium
- Jan Bollen, Arcelor, Belgium
- Rodrigo Alvarenga, Procter & Gamble, Belgium
- Mateo Saavedradeloso, Stora Enso, Sweden
- Nicole Unger, Mondi Group, Austria
- Guy Castelan, Plastics Europe, France
- Wouter De Soete, Johnson & Johnson, Belgium
- Serenella Sala, European Commission - Joint Research Centre (JRC), Italy
- Björn Spak, Swedish Environmental Protection Agency, Sweden
- Hans-Jürgen Garvens, German Environment Agency (UBA), Germany
- John Wante, OVAM, Belgium
- Hanna Pihkola, VTT, Finland
- Stephan Pfister, ETH Zürich, Switzerland
- Robert Istrate, CML Leiden, Netherlands
- Stephanie Müller, BRGM French Geological Survey, France
- Paula Perez-Lopez, European Commission - Joint Research Centre (JRC), Spain
- Jáchym Judl, Finnish Environment Institute (Syke), Finland

LOCAL ORGANISING COMMITTEE

- Jo Dewulf (Chair), Ghent University, Belgium
- Erasmo Cadena (Chair), Ghent University, Belgium
- Jens Forré, Ghent University, Belgium
- Laura De Luca Pena, Ghent University, Belgium
- Lieslot Boone, Ghent University, Belgium
- Nora Schelte, Ghent University, Belgium
- Nhu Thuy Trang, Ghent University, Belgium
- Ricardo Magdalena, Ghent University, Belgium
- Sophie Huysveld, Ghent University, Belgium

SPONSORS & EXHIBITORS

SPONSORS

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EXHIBITORS

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BOOTH NR.	EXHIBITOR
1	GreenDelta
2	Ecomatters / ARCHE Consulting
3	Ecoinvent
4	Ghent University - Research Group Sustainable Systems Engineering (STEN)

SETAC GLOBAL PARTNERS

Thank you to the SETAC Global Partners for helping ensure our goal of Environmental Quality Through Science®.

Interested in becoming a SETAC Partner? Visit setac.org/partners for more information or contact setac@setac.org.



ABOUT BRUGES AND THE VENUE

ABOUT BRUGES

Bruges is one of Belgium's most charming cities and is very accessible. With excellent rail connections and proximity to major international airports, reaching the city is straightforward whether you are travelling from within Europe or internationally.

THE BRUGES MEETING & CONVENTION CENTRE

The Bruges Meeting & Convention Centre (BMCC) is a brand-new conference building featuring all modern conference facilities and technologies, and located right in the heart of historic Bruges. The BMCC has sustainability at heart with its sustainable construction, focus on green energy and collaboration with local suppliers. These efforts have caused the BMCC to be awarded the Green Key label, the international sustainability label for event locations.

Ideally located, the BMCC allows participants to easily discover all the UNESCO World Heritage City has to offer, as soon as they step outside. Moreover, the BMCC can easily be reached on foot, by bicycle, by public transport and by car. It's located 800 m from the railway station and is within walking distance of numerous hotels, historic attractions and world-famous museums.

The Bruges Meeting & Convention Centre

Beursplein 1,
8000 Bruges
Belgium

PRACTICAL INFO

BADGES

Badges must be worn at all times to gain access to the session rooms and the exhibition, poster and catering areas of the symposium.

CERTIFICATES OF ATTENDANCE

Participants and presenters will receive an email after the meeting with information on how to download their certificates.

EMERGENCIES AND FIRST AID

If you need medical attention, ask any of the local volunteers. For emergencies, call 112.

SETAC POLICIES

SETAC provides open, safe forums for the purpose of exchanging ideas and information on the study, analysis and solution of environmental problems, the management and regulation of natural resources, promotion of scientific research and the development of strong environmental education.



Attendees of SETAC meetings are expected to adhere to all SETAC policies, including SETAC Participant Policies.

Learn more at www.setac.org/learn-about-setac/policies.html.

CONDUCT

Participants in SETAC activities are expected to adhere to the highest standards of integrity and professionalism and comply with the SETAC Code of Conduct. Attendees are reminded to observe SETAC's principles and values and to maintain an atmosphere of civil and constructive scientific exchange.

CELEBRATING EXCELLENCE IN LCA

The SETAC Europe LCA Interest Group is proud to celebrate excellence and recognise researchers who make outstanding contributions to the field of life cycle assessment at different stages of their careers through the Young Scientist Life Cycle Assessment Award and the Lifetime Achievement in Life Cycle Assessment Award.

SETAC EUROPE LIFETIME ACHIEVEMENT IN LIFE CYCLE ASSESSMENT AWARD

Reinout Heijungs is awarded the SETAC Europe Award for Lifetime Achievement in Life Cycle Assessment in recognition of his foundational and enduring contributions to the field. Over several decades, he has played a central role in shaping the mathematical, computational and conceptual foundations of LCA, including advances in uncertainty and sensitivity analysis, contribution analysis, and the integration of statistical and decision-theoretical approaches.



REINOUT HEIJUNGS

Vrije Universiteit Amsterdam

Through pioneering contributions to hybrid and dynamic LCA, as well as his extensive publication record, teaching and supervision of young researchers, Reinout has influenced generations of scientists and practitioners worldwide. His impact extends beyond academia through sustained service to the scientific community and international engagement across Europe, the Americas and Asia.

SETAC EUROPE YOUNG SCIENTIST LIFE CYCLE ASSESSMENT AWARD

Martyna Solis is awarded the SETAC Europe Young Scientist Life Cycle Assessment Award in recognition of her exceptional doctoral research on textile waste management in the European Union. Her work addresses a pressing sustainability challenge through a comprehensive and policy-relevant life cycle assessment framework, integrating environmental and socio-economic dimensions in a consequential LCA. Her research is distinguished by robust, stakeholder-validated datasets and modelling of exported post-consumer textiles to provide a complete system perspective.



MARTYNA SOLIS

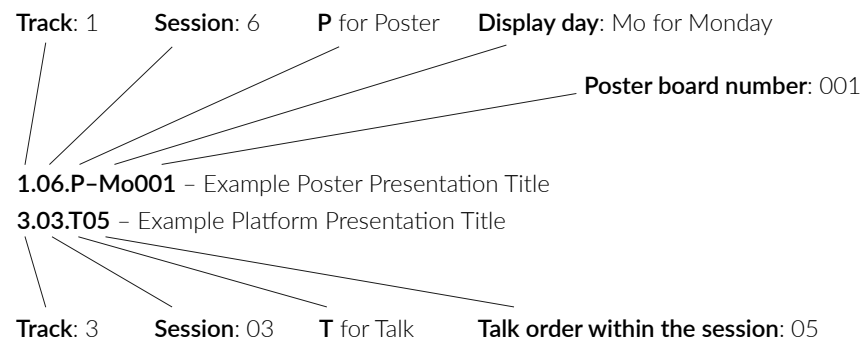
Technical University of Denmark (DTU)

Her results have directly supported European Union policy development, including the revision of the Waste Framework Directive, demonstrating a rare combination of scientific excellence and real-world impact. Through her methodological rigour and ability to translate research into decision-making, Martyna has made a contribution of lasting relevance to the field of LCA.

SCIENTIFIC PROGRAMME

PROGRAMME ORGANISATION

The scientific programme is organised into tracks and sessions. Within each session, presentations are grouped as platform talks (T) or posters (P). Presentation codes identify the track, session, presentation type and presentation number. For example:



TRACKS

- Track 1:** Methodological advancements in prospective and consequential LCA
- Track 2:** Digitalisation and artificial intelligence in Life Cycle Assessment
- Track 3:** Policy integration and decision support through life cycle approaches
- Track 4:** Sustainability steering in bio-based and circular economies
- Track 5:** Resource efficiency and critical raw materials management



SCIENTIFIC PROGRAMME UPDATES

The printed programme book reflects the status of the programme as it was on 8 October, which was the print deadline. For the most up-to-date information, visit the meeting platform.



ABSTRACT BOOK

Download your copy at setac.org/lca2026

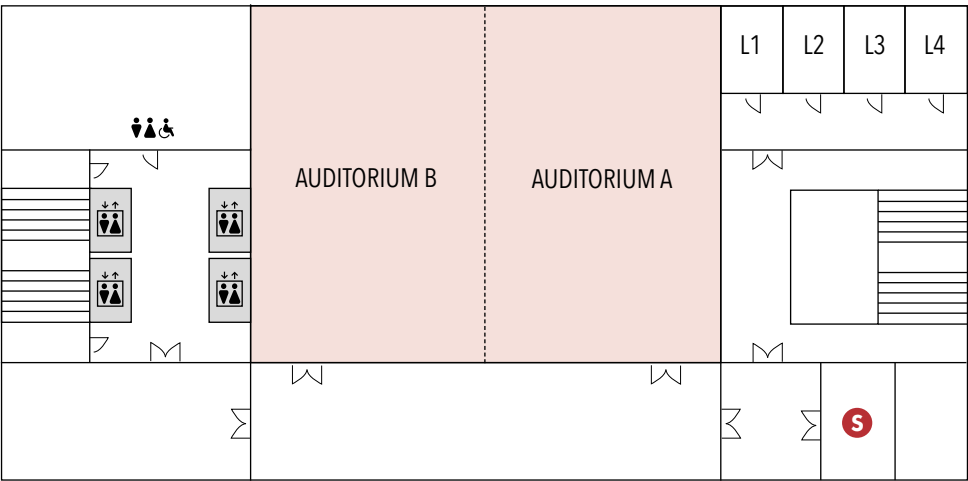
FLOOR PLAN

Session Rooms Speaker Ready Room Cloakroom

LEVEL 0

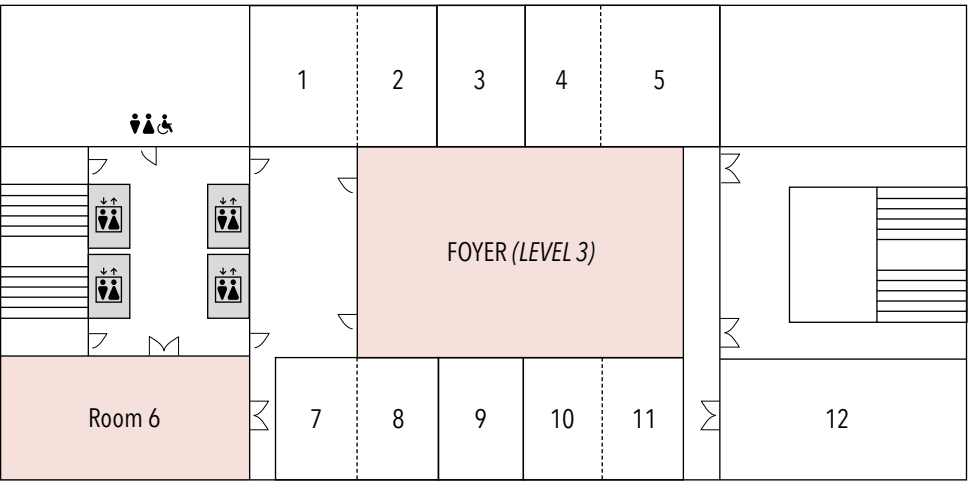


LEVEL 1

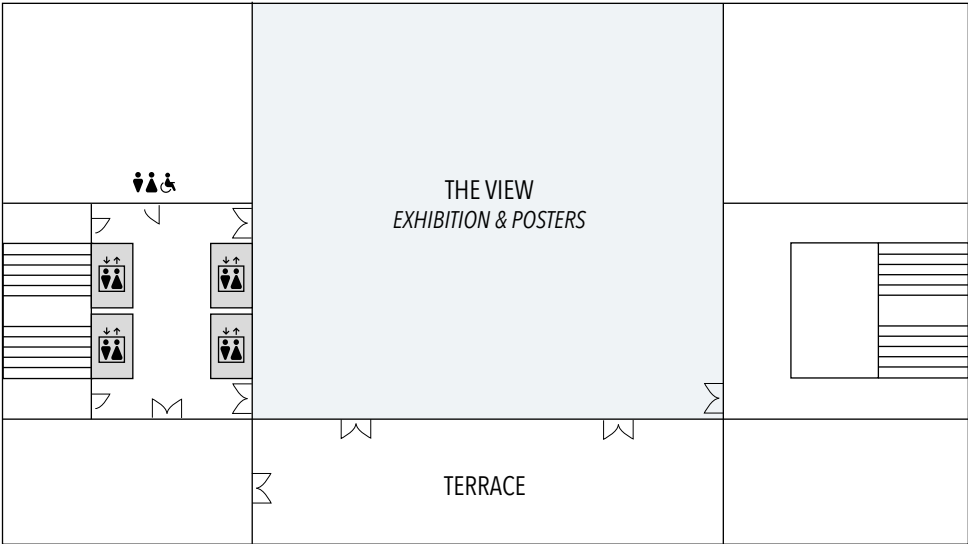


FLOOR PLAN

LEVEL 3



LEVEL 4



MONDAY SCHEDULE

TIME	SCHEDULE	LOCATION
09:00–11:00	Badge Pickup, Poster Setup & Coffee	Registration Area / The View
11:00–12:30	Opening Ceremony and Keynote Speaker	Auditorium A+B
12:30–14:00	Lunch Break and Poster Sessions	The View
14:00–15:20	Parallel Presentation Sessions	
15:20–16:05	Coffee break and poster Sessions	The View
16:05–17:25	Parallel Presentation Sessions	
17:25–19:00	Poster Social & Opening Reception	The View

MONDAY KEYNOTE

MAURO CORDELLA

DG ENV European Commission

Life Cycle Thinking in EU Policy: Why Environmental Footprint Methods Matter

Mauro Cordella is a Policy Officer at the Directorate-General for Environment (DG ENV) of the European Commission, working on environmental/carbon footprints, ecodesign & green claims. He holds a Ph.D. in chemical, environmental, and safety engineering and has an extensive background in sustainability research, promoting innovation, and bridging science and policy, particularly in areas such as Circular Economy, Bioeconomy and Sustainable Production and Consumption. Mauro has contributed to the development of EU Ecodesign and Ecolabel criteria for various products and has authored numerous publications on environmental impact assessment, circularity, inherent safety and sustainability of production and consumption systems. His work at DG ENV focuses on driving methodological developments on environmental/carbon footprint assessment and their application in EU policy and market initiatives relating to sustainable products, particularly the Ecodesign for Sustainable Product Regulation.



MONDAY PLATFORM PRESENTATIONS BLOCK 1

	14:00	14:05	14:20
Auditorium A	5.02.A - Critical Resources, Circular Strategies, and the Future of Sustainable Emerging		
	Intro	5.02.A.T01 - Developing and harmonising energy and digital transition narratives for future raw materials demand and supply projections Hellen Luisa de Castro e Silva , Ghent University, Belgium	5.02.A.T02 - Future Demand of Raw Materials for the Digital Transition: a Case Study on "Internet of Things" in a Smart Home Rhani Bostyn , Ghent University, Belgium
Auditorium B	5.01 - Assessing Emerging Energy Systems to Foster the European Energy Transition ...		
	Intro	5.01.T01 - Prospective Life Cycle Assessment of Defossilized Synthesis gas Production via Co-Electrolysis Sara Zahedi Nezhad , Forschungszentrum Jülich GmbH, Germany	5.01.T02 - Navigating The Valleys Of Death Through Eco-Design: Methodological Principles For Prospective Life Cycle Assessment Of Emerging CO2 Valorization Technologies At Various Development Stages Isadora Hackenhaar , University of Antwerp, Belgium
Foyer (level3)	1.01 - Advancing Life Cycle Assessment for Carbon Dioxide Removal (CDR) Christian Bauer,		
	Intro	1.01.T01 - Time-Explicit Life Cycle Assessment Linked to Prospective Background Scenarios and Climate Emulator Romain Sacchi , Paul Scherrer Institut, Switzerland	1.01.T02 - Biogenic Carbon Modelling in LCA: A Temporal Perspective Andreas Ciroth , GreenDelta, Germany
Room 06	3.09 - Life Cycle Assessment of Hard-to-Abate Transport Sectors: Shipping, Aviation, and		
	Intro	3.09.T01 - How to Quantify Aviation Impacts on Human Health? Félix Pollet , Institut supérieur de l'aéronautique et de l'espace (ISAE)-Supaero, France	3.09.T02 - Life Cycle and Absolute Sustainability Assessment of Individual Transportation Patterns in Denmark Marion George , Technical University of Denmark (DTU), Denmark

MONDAY PLATFORM PRESENTATIONS BLOCK 1

	14:35	14:50	15:05
Auditorium A	Technologies - With a Focus on Energy- and Mobility Technologies Jana Backes, Julius Hausmann		
	5.02.A.T03 - Process simulation-based life cycle assessment of cobalt sulfate production for lithium-ion batteries Anish Koyamparambath , WeLOOP, France	5.02.A.T04 - Mineral Resource Impacts of Future Carbon-Neutral Passenger Vehicles: Influence of Impact Assessment Methods and Allocation Approaches Shima Fathi , Fraunhofer Institute for Solar Energy Systems ISE, Germany	5.02.A.T05 - A New Method Combining Statistical Entropy Analysis and Life Cycle Assessment for the Evaluation of Circularity and Sustainability: A Case Study on Li-Ion Battery Recycling Processes Gulsah Tas , Aalto University, Finland
Auditorium B	Christine Minke, Daniel Fozer, Christina Wulf, Janis Gerhardt-Mörsdorf		
	5.01.T03 - Integrating Large Language Models and Environmental Learning Theory for Prospective Life Cycle Assessment of e-Formaldehyde Production Daniel Fozer , Technical University of Denmark (DTU), Denmark	5.01.T04 - Environmental Impacts of Future International Hydrogen Transport Value Chains: Implementation and Case Study using premise Tobias Schliess , University of Stuttgart, Germany	5.01.T05 - Best Practices in Environmental Life Cycle Assessments of Hydrogen Valleys Marco Serafini , European Commission - Joint Research Centre (JRC), Netherlands
Room 01/02	Vittoria Bolongaro		
	1.01.T03 - Life Cycle Assessment of Enhanced Weathering in the UK Coupled with Site-Specific Ecohydrological Modelling William Merrill-Glover , University of Manchester, United Kingdom	1.01.T04 - Advancing LCA method for CDR: Integrating soil feedbacks into the LCA assessment of Biochar application to agricultural soils. Maria Myridinas , ETH Zurich, Switzerland	1.01.T05 - JuDCB-DAC: An Open-Source Framework for Systems Optimization and Prospective Life Cycle Assessment of Adsorption-based Direct Air Capture Pingping Wang , TU Wien, Austria
Room 06	Heavy-Duty Road Transport Fayas Malik Kanchiralla, Shan Zhang		
	3.09.T03 - Decarbonising Heavy-Duty Road Transport: A Life Cycle Assessment of Diesel, BEV, and FCEV under Alternative Energy Pathways Gaia Gentilucci , Polytechnic of Turin, Italy	3.09.T04 - Are Aviation Transition Scenarios Compatible With Planetary Boundaries? A Regionalized Absolute Environmental Sustainability Assessment Bastien Pais , Ecole Nationale de l'Aviation Civile - ENAC, France	3.09.T05 - Are shipping and aviation decarbonization regulations measuring the right thing? Shan Zhang , Chalmers University of Technology, Sweden

MONDAY PLATFORM PRESENTATIONS BLOCK 2

	16:05	16:10	16:25
Auditorium A	5.02.B - Critical Resources, Circular Strategies, and the Future of Sustainable Emerging		
	Intro	5.02.B.T01 - Sustainable Battery Manufacturing at Gigafactory Scale: Combining Material Flow and Life Cycle Models with Wider Sustainability Metrics Sophie Kempston , University of Birmingham, United Kingdom	5.02.B.T02 - Eco-Designed Modular Batteries: Life Cycle Assessment for Environmental and Critical Raw Material Recovery Benefits Amrutha Rajamani , Riga Technical University, Latvia
Auditorium B	1.07 - Upscaling of Emerging Technologies in Prospective Life Cycle Assessment ...		
	Intro	1.07.T01 - Energy Modelling in Prospective LCA: A Tool for Early-Stage Process Evaluation Jacopo Sorani , EMPA, Switzerland	1.07.T02 - Evaluating the Effectiveness of Prospective LCAs for Novel Chemical Technologies: Lessons Learned from a Waste-to-Aromatics Case Study Zizhang Wang , Utrecht University, the Netherlands
Foyer (level3)	1.04 - Prospective LCA on Transitional Scenarios Hans Garvens, Daniel Münter		
	Intro	1.04.T01 - How Territorial Context Shapes the Environmental Performance of Circular Nutrient Recovery Strategies: A Regionalized LCA Across European Cities. Erin Untereiner , Institute of Environmental Science and Technology (ICTA), Universitat Autònoma de Barcelona (UAB), Spain	1.04.T02 - Supporting Urban and Regional Decisions with System Dynamics Sustainability Assessment: A Framework and Toolset Alexander Koch , GreenDelta, Germany
Room 06	3.10 - Modelling Product Lifetime Extension to Support Circular Economy Jáchym Judl,		
	Intro	3.10.T01 - When Does Repair Pay Off? Integrating Time into Circular Economy Environmental Assessment Katri Behm , Technical Research Centre of Finland Ltd. (VTT), Finland	3.10.T02 - When Reuse Backfires: Consequential Modelling of Second-Hand T-Shirts in the Netherlands Michał Bączyk , Utrecht University, Netherlands

MONDAY PLATFORM PRESENTATIONS BLOCK 2

	16:40	16:55	17:10
Auditorium A	Technologies - With a Focus on Energy- and Mobility Technologies Jana Backes, Julius Hausmann		
	5.02.B.T03 - Assessing the environmental impacts, circularity and criticality of silicon recovery from PV modules: improving the resilience of the European silicon industry Anna-Sophie Haslinger , Ghent University, Belgium	5.02.B.T04 - Life Cycle Assessment of Rare Earth Metal Recovery from NdFeB Magnets: Impact of Process Scale-Up Vishal Khanpit , TUMCREATE, Singapore	5.02.B.T05 - Multi-Criteria Decision Analysis for the Sustainability Assessment of Biochar and Hydrochar Production from Organic Side Streams: Part 1 Nelly Mollehuara Canales , University of Oulu, Finland
Auditorium B	Rickard Arvidsson, Heather Logan, Massimo Pizzol		
	1.07.T03 - What Happens after Scaling-Up? The Need for the Right Timing in Life Cycle Assessment of Emerging Technologies Maxim Tschulkow , Delft University of Technology, the Netherlands	1.07.T04 - Generate Specific LCA Data by Generic Simulation Models: Process Heat Supply by Steam Hannes Schneider , Technical University Braunschweig, Germany	1.07.T05 - Towards a Harmonised Upscaling Method for Prospective Life Cycle Assessment of Emerging Chemical Production Technologies Ronali Fernando , University of Sheffield, United Kingdom
Room 01/02	1.04 - Prospective LCA on Transitional Scenarios Hans Garvens, Daniel Münter		
	1.04.T03 - Prospective LCA of District Heating and Heat Pumps in Austria: Environmental Trade-Offs of Future Heat Supply Systems Eva-Maria Wiener , University of Applied Sciences Burgenland, Austria	1.04.T04 - Exploring Futures of Radio Access Networks in France: a Prospective Life Cycle Assessment Study Yohan Lanier , UTOPII, French National Centre for Scientific Research (CNRS), France	1.04.T05 - A life cycle perspective on hybrid-electric aviation for short Nordic routes Shan Zhang , Chalmers University of Technology, Sweden
Room 06	Hanna Pihkola		
	3.10.T03 - Environmental Trade-Offs Between Reusable and Recyclable Packaging for Large Appliances: A Comparative Life Cycle Assessment Federico Rossi , Sant'Anna School of Advanced Studies, Italy	3.10.T04 - From Single-Use to Reusable Medical Devices: Life Cycle Assessment of ECG Lead Sets Across Circular Scenarios Erasmus Cadena , Ghent University, Belgium	3.10.T05 - New Pathways to Map the Environmental Footprint of the European Average Wardrobe: Connecting Life Cycle Assessment With Consumer Behaviour Álvaro Fernández Braña , CETIM Technological Centre, Spain

MONDAY POSTER PRESENTATIONS

POSTER SCHEDULE

Setup	09:00-11:00
Poster exhibition	11:00-19:00
Poster social	17:25-19:00
Take down	19:00-19:15

POSTER SESSIONS

1.01.P - Advancing Life Cycle Assessment for Carbon Dioxide Removal (CDR) | Christian Bauer, Vittoria Bolongaro

1.01.P-Mo001 Scenario-Aware Uncertainty Assessment for Carbon Dioxide Removal Through the Built Environment | **Ahmad Bin Thaneya**, New York University Abu Dhabi (NYUAD), United Arab Emirates

1.01.P-Mo002 Integrated Dynamic Life Cycle Assessment as a Tool to Assess the Technological Efficacy of Mineral Carbonation of Steel Slags as a Carbon Capture, Utilization and Storage Technology | **Ponnapat Watjanatepin**, KU Leuven, Belgium

1.01.P-Mo003 Challenges and Prospects of Direct Ocean Carbon Capture and Storage (DOCCS) as a Carbon Dioxide Removal Technology: Findings From an Ex-Ante LCA | **Katri Behm**, Technical Research Centre of Finland Ltd. (VTT), Finland

1.01.P-Mo004 An Uncertainty-Informed Comparative Life Cycle Assessment: Zeolite 13X and Aluminium-Based MOFs versus MEA for CO₂ Capture | **Yipeng Yao**, University of Mons, Belgium

1.01.P-Mo005 Life Cycle Assessment of Methane Production via CO₂ Hydrogenation: A comparative Analysis and Impact Characterization Model | **Nelly Mollehuara Canales**, University of Oulu, Finland

1.01.P-Mo006 Addressing Carbon Dioxide Removal's Unique Life Cycle Assessment Challenges | **Ben Kolosz**, University of Hull, United Kingdom

1.01.P-Mo007 When does a tree grow? The influence of temporal assumptions of the perceived carbon payback period of forestry-based bioenergy and CCS systems. | **Devika Varma**, Delft University of Technology, Netherlands

1.01.P-Mo008 Screening Prospective Life Cycle Assessment of Biogenic Carbon Capture and Utilization in Chemical Production | **Hanna Steinum**, Royal Institute of Technology - KTH, Sweden

1.01.P-Mo009 Does Captured Carbon Count? A Prospective LCA of Methanol from Waste Gasification | **Aleš Paulu**, University of Chemistry and Technology, Prague, Czech Republic

1.01.P-Mo010 How Prospective LCA Can Guide Technology Developers to Design Better and More Sustainable Technologies. A Case Study for CCU Technologies | **Roel Degens**, Flemish Institute for Technological Research (VITO), Netherlands

1.01.P-Mo011 Clarifying System Boundaries in LCAs of Carbon Capture and Utilization: An Industrial System Mapping Tool for Scope Definition | **Evelina Nyqvist**, Chalmers University of Technology, Sweden

1.01.P-Mo012 Modeling Negative Emissions Technologies in LCA of Construction Materials: Challenges and Uncertainties | **Zhaniya Mukhamadiyeva**, Laboratory for Technology and Society, Swiss Federal Laboratories for Materials Science and Technology - Empa, Switzerland

1.04.P - Prospective LCA on Transitional Scenarios | Hans Garvens, Daniel Münter

1.04.P-Mo013 All Aboard! A Prospective, Time-Explicit Life Cycle Assessment of Battery-Electric and Diesel City Buses on a British Route under Net-Zero Policies | **Josh Rogers**, Institute of Advanced Automotive Propulsion Systems, University of Bath, United Kingdom

1.04.P-Mo014 Integrating Systems Perspectives into Prospective Life Cycle Assessment: A Structured Framework for Enhanced Sustainability Decision Making | **Harishankar Thekkepat**, University of Freiburg, Germany

1.04.P-Mo015 Capturing the Consequences of Constrained Biomass Availability and Competition in Bio-based Productions | **Fabio Sporchia**, Aalborg University, Denmark

1.04.P-Mo016 Accounting for Future Biomass Constraints in Prospective LCA of EU Bioeconomy Transitions | **Kira Lancz**, Life Cycle Sustainability, Aalborg University, Denmark

1.04.P-Mo017 Towards Absolute Sustainability in Danish Housing: A Prospective Outlook | **Marion George**, Section for Quantitative Sustainability Assessment, Department of Environmental and Resource Engineering, Technical University of Denmark (DTU), Denmark

1.04.P-Mo018 Life Cycle Assessment of Electricity Generation in Kalimantan: A Comparison of Current and Future Grid Scenarios | **Gana Kusuma**, University of Manchester, United Kingdom

1.04.P-Mo019 Prospective LCA of Green Hydrogen Production for Supporting National-Scale Low-Carbon Energy Transition | **Ying Cai**, Department of Civil, Environmental and Geomatic Engineering, University College London, London, United Kingdom, United Kingdom

1.04.P-Mo020 Scenario Based Mass Balancing of Life Cycle Inventory Attributes in Certified Product Carbon Footprints | **Laura Schmidt**, Meo Carbon Solutions GmbH, Germany

1.04.P-Mo021 Designing Tomorrow's Feed: A Predictive Dynamic LCA Framework for Cost- and Sustainability-Optimized Pig Feeding | **Renee Kelem**, Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium

1.04.P-Mo022 Methodological Choices and Assumptions in Prospective LCA of Future Steelmaking: A Systematic Review | **Nata Dovgalek**, Leiden University, Netherlands

1.07.P - Upscaling of Emerging Technologies in Prospective Life Cycle Assessment | Rickard Arvidsson, Heather Logan, Massimo Pizzol

1.07.P-Mo023 Influence of Upscaling Choices on LCA Outcomes: Insights from Seaweed-based Vegan Foods | **Ravalnath Shikhare**, Aalborg University, Denmark

1.07.P-Mo024 Assessing the scalability and environmental impacts of photosynthetic and algal bacteria granular sludge systems for decentralized wastewater systems using prospective life cycle assessment | **Emilio Solis**, CML, Leiden University, Netherlands

1.07.P-Mo025 From Sea to Fuel: Prospective LCA and TEA of Green Methanol from an Integrated Floating Offshore System | **Surya Maechtlen**, Institute for Industrial Ecology (INEC), Pforzheim University, Germany

1.07.P-Mo026 Upscaling Emerging Sodium-Ion Battery Recycling Technologies for Prospective Life Cycle Assessment | **Julia Brunke**, Chalmers University of Technology, Sweden

MONDAY POSTER PRESENTATIONS

1.07.P-Mo028 Prospective Environmental Assessment of Next-Generation Batteries: A Cradle-to-Gate LCA of Lithium-Sulfur and Lithium-Oxygen Cells | **Marzieh Golabchi**, Polytechnic University of Turin, Italy

1.07.P-Mo029 Prospective environmental assessment of aluminium-ion batteries using lab-scale data | **Sofia Melo**, Institute of Machine Tools and Production Technology (IWF), Chair of Sustainable Manufacturing and Life Cycle Engineering, Technische Universität Braunschweig, Germany

1.07.P-Mo030 Prospective LCA/LCC Framework of an Upscaled Hydrometallurgical Recycling Process for Automotive Li-Ion Battery Cells | **Flavio Calvi**, Polytechnic University of Turin, Italy

1.07.P-Mo031 A Prospective Life Cycle Assessment of In-Wheel Motors from Small-Scale to Large-Scale Production | **Antonella Accardo**, Polytechnic University of Torino, Italy

1.07.P-Mo032 Upscaling Emerging Tandem PV Technologies in Prospective Life Cycle Assessment: A Scenario-Based Assessment of Future Environmental Performance | **Javier Yélamo Mayorga**, Vlaamse Instelling voor Technologisch Onderzoek (VITO), Belgium

1.07.P-Mo033 From Laboratory to Scaled-Up Production: A Life Cycle Assessment of Catalyst Synthesis Under Changing Energy Systems | **Anastasia Pappa**, Institut de Chimie et Procédés pour l'Energie, l'Environnement et la Santé (ICPEES), ECPM, UMR 7515 CNRS – Université de Strasbourg, France

1.07.P-Mo034 Unlocking the Potential of Chemical Industry Wastewater: Prospective Life Cycle Assessment and Future Opportunities from Anaerobic Digestion | **Jorge Senán-Salinas**, BETA Technological Centre, Universitat de Vic – Universitat Central de Catalunya

(UVic-UCC), Spain

1.07.P-Mo035 Prospective Life Cycle Assessment in Synthetic Active Pharmaceutical Ingredient Production: A Review on Upscaling Frameworks | **Aqila Sarastya**, Ghent University, Belgium

1.07.P-Mo036 Prospective Absolute Environmental Sustainability Assessment of Enzymatic Sugar Beet Pulp Treatment | **Georgios Manthos**, Technical University of Denmark (DTU), Denmark

1.07.P-Mo037 Upscaling and Learning effects in Prospective LCA of Emerging Lignin-Derived Bisphenols | **Despoina Barouta**, Technical University of Denmark, Denmark

1.07.P-Mo038 Upscaling Effects In Life Cycle Assessment Studies Of Emerging Technologies For Converting Biowaste Into Platform Chemicals | **José Manuel Alejandro Cerdán Morillo**, University of São Paulo (USP), Brazil

1.07.P-Mo039 Which Methodological Choices Matter Most in Prospective Life Cycle Assessment of an Emerging Bio-Based Building Block? | **Venkata Teja Gangavarapu**, Chalmers University of Technology, Sweden

1.07.P-Mo040 Bio-Electrochemical Systems for Ammonium Recovery: Comparative p-LCA of Divergent Designs and Configurations | **Jorge Senán-Salinas**, University of Vic - Central University of Catalonia (UVic-UCC), Spain

1.07.P-Mo041 Reliable Decision Support for the Life Cycle Engineering of Technologies based on the Life Cycle Assessment of Emerging Technologies | **Jana Husmann**, Fraunhofer Institut für Surface Engineering and Thin Films (IST), Germany

MONDAY POSTER PRESENTATIONS

1.07.P-Mo042 Towards understanding TRL Effect on Environmental Learning: The Role of Background Scenarios | **Ekinsu Akdoğan**, KU Leuven, Belgium

1.07.P-Mo043 Environmental learning at low TRLs: a typology-based analysis across emerging low-carbon technologies | **Ekinsu Akdoğan**, KU Leuven, Belgium

1.07.P-Mo044 Critically Comparing Uncertainty Approaches in Life Cycle Assessment of Emerging Technologies | **Sabina Bednářová**, University of Luxembourg, Luxembourg

1.07.P-Mo045 Climate Change Performance of Biomass-Based Dimethyl Ether and Synthetic Natural Gas Production Using LCA | **Gulam Husain Patel**, LUT university, Finland

3.09.P - Life Cycle Assessment of Hard-to-Abate Transport Sectors: Shipping, Aviation, and Heavy-Duty Road Transport | Fayas MalikKanchiralla, Shan Zhang

3.09.P-Mo046 From the Brazilian Semi-arid to Europe: Carbon Footprint and GIS-Based Assessment of Agave Alcohol-to-Jet Sustainable Aviation Fuel | **João Maracini**, Universidade Estadual de Campinas (UNICAMP), Brazil

3.09.P-Mo047 Absolute Environmental Sustainability Assessment of Bio-based Transport, Chemistry Sector and Wood Construction Scenarios in Germany | **Matthias M. Welker**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.09.P-Mo048 Expanding Coverage of theecoinvent Background Database: Implementation of a New Road Transport Model for Multi-Powertrain, Region-Specific Life Cycle Inventory Generation | **Mattia Clementi**, ecoinvent Association, Switzerland

3.09.P-Mo049 Methodological considerations in defining the Functional Unit for the Life Cycle Assessment of ship energy storage systems: a case study | **Maria Leonor Carvalho**, RSE SpA - Research on Energy System, Italy

3.09.P-Mo050 Linking Life Cycle Assessment and Techno-Economic Cost Functions for Bio-Based Aviation Fuels from Perennial Grasses in Europe | **Cristina-Maria Iordan**, SINTEF, Norway

3.09.P-Mo051 Infrastructure-Driven Environmental Trade-offs of Hydrogen Deployment in Short-Haul European Aviation: A Life Cycle Assessment | **Alex Newman**, University of Sheffield, United Kingdom

3.09.P-Mo052 Hydrogen emissions and their contribution to the global-warming impact of current industrial processes | **Tatiana D'Agostini**, European Commission - Joint Research Centre (JRC), Netherlands

3.09.P-Mo053 Life Cycle Assessment and Life Cycle Costing of Using Ammonia in Different Ship Power Train Systems. | **Fayas Malik Kanchiralla**, Chalmers University of Technology, Sweden

3.10.P - Modelling Product Lifetime Extension to Support Circular Economy | Jáchym Judl, Hanna Pihkola

3.10.P-Mo055 Next life or next guess? Inventory data quality in LCA of second- and third-life EV battery repurposing | **Hesam Edin Hayati Soloot**, LUT University, Finland

3.10.P-Mo056 From First to Second Life: A Life Cycle Approach to Circular Battery Pack Design | **Tasya Oka**, University of Graz, Austria

MONDAY POSTER PRESENTATIONS

3.10.P-Mo057 Enhancing End-of-Life Decisions for E-Cargo Bikes through LCA and Field Failure Data Integration | **Lisa Trautmann**, Bochum University of Applied Sciences, Germany

3.10.P-Mo058 Decision-Support for Product Lifetime Extension: Scenario-Based LCA Modelling of Maintenance for the Manufacturing Industry | **Yasemin Atmaca**, Associate Research Scientist (Prospective PhD Student), Denmark

5.01.P - Assessing Emerging Energy Systems to Foster the European Energy Transition | Christine Minke, Daniel Fozer, Christina Wulf, Janis Gerhardt-Mörsdorf

5.01.P-Mo059 Prospective Life Cycle Assessment of hydrogen production combined with desalination in Tunisia for advancing national and EU energy transitions | **Mélanie Apitzsch-Delavault**, Karlsruhe Institute of Technology, Germany

5.01.P-Mo060 Advancing Life Cycle Assessment of PEM Water Electrolysis: Prospective Time-Resolved Modelling with Closed-Loop Catalyst Recycling | **Janis Gerhardt-Mörsdorf**, Technical University Clausthal, Germany

5.01.P-Mo061 Scaling Green Hydrogen From Renewable Energy Sources as a Natural Gas Substitute for Pharmaceutical Process Heat: an LCA-Based Scenario Analysis | **Gerhard Piringer**, University of Applied Sciences Burgenland, Austria

5.01.P-Mo062 Advancing the Environmental Assessment of Emerging Power-to-X Technologies: Case of Electrochemical CO₂ Reduction | **Gustavo Ezequiel Martinez**, Flemish Institute for Technological Research (VITO), Belgium

5.01.P-Mo063 Resource Efficient Deployment of Sustainable Aviation Fuels Using Integrated Life Cycle Assessment and Techno Economic Analysis | **Conall McNamara**, Trinity College Dublin, Ireland

5.01.P-Mo064 Coupling Life Cycle Assessment and Techno-Economic Assessment of Advanced Anion Exchange Membranes: Insights from the AEMELIA European Project | **Roméo Puech**, Syensqo, France

5.01.P-Mo065 From LCA to Supplier Dialogue: Environmental and Biodiversity Impacts of Energy Transition Materials | **Tatiana Bratec**, ENGIE Lab CRIGEN, France

5.01.P-Mo066 Advanced Biomass Gasification for Decarbonising Light-Industry Sectors Heat supply: A Life Cycle Assessment of the Novel CBE4I Concept | **Khaled M. A. Osman**, Utrecht university, Netherlands

5.01.P-Mo067 A data-driven approach for the prospective environmental assessment of cementitious materials in medium-to-high temperature thermal energy storage | **Jara Martínez-Ramírez**, Universidad Carlos III de Madrid, Spain

5.01.P-Mo068 Evaluating Additive versus Conventional Manufacturing for Generation IV Reactor Components: A Comparison of Classical and Prospective Life Cycle Approaches | **Eliška Purkarová**, University of Chemistry and Technology Prague (UTC), Czech Republic

5.01.P-Mo069 Prospective decommissioning of Concentrated Solar Power plants | **María Asunción Palmero-González**, Universidad Carlos III de Madrid, Spain

5.01.P-Mo070 Ecodesign Strategies for Photovoltaic Modules: Reducing Environmental Impact and Critical Raw Material Dependency | **Ricardo Magdalena**, Ghent University, Belgium

5.01.P-Mo071 Global Potential and Environmental Footprints of Floating Solar Photovoltaics (FPV) | **Daniela Seitz**, Radboud University Nijmegen, Netherlands

5.01.P-Mo072 Integrating Critical Raw Materials into Life Cycle Assessment: Evaluating Resource Resilience in Photovoltaic Technologies | **Fruela Perez**, ITENE, Spain

5.01.P-Mo073 A Discussion about Life Cycle Inventory Management: Data collection, Use and Dissemination for Power Electronics | **Lucas Riondet**, Arts et Metiers Institute of Technology, CNRS, France

5.01.P-Mo074 Designing Sustainable Manufacturing Routes for Solid-State Batteries: A Comparative LCA between Emerging Dry and Wet Processing Technologies | **Inês Ribeiro**, INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Portugal

5.01.P-Mo075 Innovative Battery Manufacturing Technologies to Minimize VOC Emissions – Life Cycle Assessment of Cell Manufacturing via Dry and Wet Processing | **Kristin Fransson**, Research Institutes of Sweden AB (RISE), Sweden

5.01.P-Mo076 Life Cycle Assessment of a Battery Pack Combining Cell Level Innovations with Primary Pack Inventory Data | **Emanuel Glans**, Research Institutes of Sweden AB (RISE), Sweden

5.01.P-Mo077 Prioritising Sustainability Hotspots in Advanced Lithium-Metal Batteries | **Viera Pechancová**, Tomas Bata University in Zlín, Czech Republic

5.01.P-Mo078 Life-Cycle Assessment of Low-Noise Power Systems | **Himanshu Dehra**, Monarchy of Concordia, Wellstar Beacon labs, India

5.02.P - Critical Resources, Circular Strategies, and the Future of Sustainable Emerging Technologies – With a Focus on Energy- and Mobility Technologies | Jana Backes, Julius Hausmann

5.02.P-Mo079 Assessing the Sustainability of Tribolysis for Fluoropolymers: Green Metrics, Criticality, Circularity and LCA of Urban Mining of Critical Raw Materials | **Jonas Hoffmann**, GreenDelta GmbH, Germany

5.02.P-Mo081 Life Cycle Assessment of Lithium-Ion Battery Production for Electric Vehicles in a Photovoltaic-Integrated Plant | **Alara Nur Ozmen**, Solar Energy Institute, Ege University, Türkiye

5.02.P-Mo082 Life Cycle Assessment of Emerging Battery Material Production Routes under a Safe and Sustainable by Design Framework | **Meritxell Rovira Antonell**, Leitat Technological Center, Spain

5.02.P-Mo083 Sustainability Performance Assessment of Green Hydrogen Production through an Innovative Electrochemical Route Powered by Renewable Energy | **Carlos Bernárdez Casás**, CETIM Technology Centre, Spain

5.02.P-Mo084 Evaluating Circularity: An LCA-Based Indicator to Measure the Environmental Effectiveness of R-Strategies | **Erik Alexander Recklies**, Sustainable Technologies Laboratory, Bochum University of Applied Sciences, Germany

5.02.P-Mo085 Circular Carbon Fibre Composites: Exploring Opportunities and Constraints Using Life Cycle Assessment | **Frida Hermansson**, Swedish Environmental Research Institute (IVL), Sweden

5.02.P-Mo086 Assessing the role of Sustainability-by-Design in Emerging Circular Value Chains for Repair and Repurposing | **Valeria Acevedo García**, AIMEN, Spain

MONDAY POSTER PRESENTATIONS

5.02.P-Mo088 Life Cycle Sustainability Assessment at low Technology Readiness Level for sustainable decision-making – application to Cultural Heritage conservation | **Noura Rahbani**, WeLOOP, France

5.02.P-Mo089 Circularity Assessment of Electric Vehicles - A New LCA Approach on the Circularity Potential in IEA EV Task 52 | **Gerfried Jungmeier**, Joanneum Research Forschungsgesellschaft mbH, Austria

5.02.P-Mo090 Life Cycle Assessment for the Ecodesign Approach of Electric Traction Motor | **Lea D amore**, EVERGi - FACT - VUB, Belgium

5.02.P-Mo091 Integrating Flood Risk Analysis and Life Cycle Assessment to Evaluate Road Infrastructure Resilience | **Malsims Feofilovs**, Riga Technical University, Latvia

5.02.P-Mo092 A Spatially Explicit Life-Cycle Assessment of Wildfire-Induced Infrastructure Loss and Reconstruction | **Mehrdad Ghorbani Mooselu**, Norwegian Institute for Sustainability Research, Norway

5.02.P-Mo093 Integrating Circular Design into Sustainable Mass Management of Excavated Soils | **Tobias Boström**, Norwegian Institute for Sustainability Research, Norway

5.02.P-Mo094 Toward Prospective Assessment Frameworks for the Sustainability, Circularity, and Resilience of Emerging Clean Energy Technologies: Insights from a Literature Review | **Gustavo Ezequiel Martinez**, Flemish Institute for Technological Research (VITO), Belgium

5.02.P-Mo095 Comparative life cycle assessment of sodium-ion and lithium-ion batteries for electric vehicles | **Julia Brzostek**, University of Sheffield, United Kingdom

5.02.P-Mo096 Battery-Grade Graphite for the EU: Linking Life Cycle Impacts and Supply Risks Across Natural and Synthetic Routes | **Aina Mas-Fons**, Bureau of Geological and Mining Research (BRGM), France

5.02.P-Mo097 From Waste to Energy: Assessing the Environmental Consequences of Co-processing Strategies in the Brazilian Cement Industry | **Arthur Bach**, Universidade Federal do Rio Grande do Sul - UFRGS, Brazil

5.02.P-Mo098 Recycled Material Quality and Environmental Impacts in Battery Recycling | **Zih-Ee Lin**, National Cheng Kung University, Japan

5.02.P-Mo099 Evaluating the Environmental Performance of Technologies for Critical Raw Material Recovery from Lithium-Ion Batteries | **Lana Sobral Vieira Escada Monteiro**, São Paulo State University (UNESP), Brazil

5.02.P-Mo100 Refining Circularity Indicator in an Early-Stage Sustainability Index for Steelmaking Materials | **Maria Emilia Iñigo-Martínez**, International Research Center in Critical Raw Materials for Advanced Industrial Technologies (ICCRAM), Universidad de Burgos, Spain

5.02.P-Mo101 Recycling Metallic Lithium Anodes from Solid-State Batteries: Environmental and Material Recovery Performance | Joana Gouveia, INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Portugal

5.02.P-Mo102 Trade-offs Between Carbon Footprints and Material Criticality in Circular Battery Strategies for Maritime Electrification | **Huiying Liu**, Eindhoven University of Technology, Netherlands

5.02.P-Mo103 Life Cycle Assessment of Electrical and Electronic Equipment: Integrating Critical Raw

MONDAY POSTER PRESENTATIONS

Materials Assessment and WEEE Recycling Circularity
| **Sonia Ascaso**, Instituto ENERGAIA. Universidad de Zaragoza, Spain

5.02.P-Mo105 Quantifying the Supply-Demand Gap in Closed-Loop Concrete Recycling: Can Denmark Produce Clinker from End-of-Life Concrete at Scale? | **Arvind Chauhan**, COWI, Denmark

TUESDAY SCHEDULE

TIME	SCHEDULE	LOCATION
08:00–09:00	Badge Pickup & Poster Setup	Registration Area / The View
09:00–10:20	Parallel Presentation Sessions	
10:20–11:05	Coffee Break and Poster Sessions	The View
11:05–12:25	Parallel Presentation Sessions	
12:25–13:55	Lunch Break and Poster Sessions	The View
13:55–15:15	Parallel Presentation Sessions	
15:15–16:00	Coffee Break and Poster Sessions	The View
16:00–17:00	Plenary	Auditorium A+B
17:00–18:00	Poster Social	The View

TUESDAY KEYNOTE

FRANCESCA VERONES

Norwegian University of Science and Technology (NTNU)

Biodiversity in Life Cycle Assessment: Where We Are and Where We Need to Go

Francesca Verones is Professor of Industrial Ecology at the Norwegian University of Science and Technology (NTNU), where her research focuses on understanding and quantifying the impacts of human activities on biodiversity and ecosystems. She is internationally recognised for her work on advancing biodiversity assessment in life cycle assessment (LCA) and environmental footprinting, with particular expertise in linking pressures on terrestrial, freshwater and marine ecosystems to impacts on biodiversity.



Her research combines life cycle impact assessment, ecological modelling, environmental footprints and large-scale spatial data to improve the representation of biodiversity in sustainability assessments and decision-making. She has led and contributed to major international research initiatives, including the ERC Starting Grant ATLANTIS and several European collaborative projects and is actively involved in international efforts to advance methods for assessing biodiversity impacts and dependencies.

Beyond methodological development, Francesca works at the interface between science, policy, and practice, collaborating with researchers, international organisations, policymakers and industry to translate biodiversity science into tools that can support more sustainable decisions. She is an elected member of the Norwegian Academy of Technological Sciences (NTVA) and has contributed to international science-policy processes and initiatives addressing biodiversity, resource use, and environmental sustainability.

TUESDAY PLATFORM PRESENTATIONS BLOCK 1

	9:00	9:05	9:20
Auditorium A	4.01.A - Advancing and Aligning Life Cycle Approaches for Emerging Bio-Based Systems: Lessons		
	Intro	4.01.A.T01 - Environmental impact of high-value compounds from kelp (<i>Ecklonia maxima</i>) Sophie Sagnet , University of Galway, Ireland	4.01.A.T02 - Seaweed Side-Streams as Textile Dyes: Insights from Prospective LCA Ewa Katarzyna Lagodzka , Aalborg University, Denmark
Auditorium B	4.03.A - Advancing LCI for the Bioeconomy: Land Use Change and Biogenic Carbon Accounting 		
	Intro	4.03.A.T01 - Biogenic carbon in the absolute environmental sustainability assessment of the EU forest sector Juulia Suuronen , University of Helsinki, Finland	4.03.A.T02 - Temporal and Spatial Choices in Biogenic Carbon Accounting for the wood-based fibre Lyocell Marle de Jong , Utrecht University, Netherlands
Foyer (level3)	1.05 - S-LCA Theoretical and Methodological Advances: Gaps, Proposals and Pathways for LCSA		
	Intro	1.05.T01 - Operationalising Social LCA in data-scarce contexts: combining multi-stakeholder, socioeconomic value chain analysis and S-LCA for agri-food chains in Sub-Saharan Africa Andrea Di Maria , Gembloux Agro Bio-Tech; University of Liege, Belgium	1.05.T02 - Mapping the Terrain: Decision pathways in Social Life Cycle Assessment Claudia Mair-Bauernfeind , Technical University of Applied Sciences Rosenheim, Germany
Room 06	3.11 - Qualitative Life Cycle Studies: Exploring and Analysing the Practical Meaning of LCA 		
	Intro	3.11.T01 - Understanding Variations in Life Cycle Policymaking Through a New Classification. Shriya Dayal , University College London (UCL), United Kingdom	3.11.T02 - Beyond Efficiency: How Social Values Shape Functional Value Retention in a Solar Panel Reuse Case Droovi de Zilva , Leiden University, Netherlands

TUESDAY PLATFORM PRESENTATIONS BLOCK 1

	9:35	9:50	10:05
Auditorium A	from Algae and Beyond Lea Braud, Nora Schelte, Juan Jose Gallardo Rodriguez, Laura Monteiro		
	4.01.A.T03 - Life cycle assessment as optimization tool: Case (<i>Chlorella vulgaris</i>) production Vishal Khanpit , TUMCREATE, Singapore	4.01.A.T04 - Fair Comparison of the Environmental Performance of Biosurfactants and Fossil-Based Surfactants Using Life Cycle Assessment Rebecca Dunn , University of Manchester, United Kingdom	4.01.A.T05 - An LCA Comparison of Liquid and Dry Bone-cake-Based Protein Products: Identifying the Transport Tipping Point Freya Michiels , Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium
Auditorium B	Li Shen, Adlan Chaidir, Birka Wicke		
	4.03.A.T03 - Biogenic Carbon in Wood Construction Products and Structures: A Critical Overview from Static to Dynamic Life Cycle Assessment. Rita Ferreira , Linnaeus University, Sweden	4.03.A.T04 - Comparing Static and Dynamic Biogenic Carbon Accounting of Bio-Based Plastics under Alternative Carbon Release Profiles Nil Güreli , RWTH Aachen University, Germany	4.03.A.T05 - The Climate Impact of Biogenic Carbon in Life Cycle Assessment: A new Framework and Application Stefan Fücks , Technical University of Munich (TUM), Germany
Room 01/02	Integration Arij Mohamad Radwan Omar Chabrawi, Monika Cera		
	1.05.T03 - Assessing Social Sustainability of Bio-Based Products Across TRL Levels as Part of an LCSA Hanna Pihkola , VTT Technical Research Centre of Finland, Finland	1.05.T04 - SENSE: An Open-Source Framework for Integrated Environmental and Social Life Cycle Assessment Nicolas Schröder , ETH Zurich, Switzerland	1.05.T05 - A Stakeholder-Inclusive Framework for Assessing the Social Performance of Underutilised and Reused Wood in Net-Zero Construction: Towards a Just Transition in Ireland Bashir Alao , University of Galway, Ireland
Room 06	Henrikke Baumann, Monia Niero, Sjouke Beemsterboer, Michael Martin		
	3.11.T03 - Avoiding a Compliance-based LCA Culture Under Legislative Pressure: Evidence From a Longitudinal Study of Four Building Companies Sjouke Beemsterboer , Chalmers University of Technology, Sweden	3.11.T04 - Understanding Decision Situations for More Actionable and Influential Life Cycle Assessment Gulnara Shavaliyeva , Environmental systems analysis, Chalmers University of Technology, Sweden	3.11.T05 - Exploring and understanding the practise of LCA in innovation processes Arjan Kirkels , Eindhoven University of Technology, Netherlands

TUESDAY PLATFORM PRESENTATIONS BLOCK 2

	11:05	11:10	11:25
Auditorium A	4.01.B - Advancing and Aligning Life Cycle Approaches for Emerging Bio-Based Systems: Lessons		
	Intro	4.01.B.T01 - Capturing Spatial Variability in the Life Cycle Assessment of European Seaweed Cultivation Nora Schelte , Ghent University, Belgium	4.01.B.T02 - Social Life Cycle Assessment of Circular Bioeconomy Business Models: Cross-Case Insights from the C4B Project David Wilde , Leitat Technological Center, Spain
Auditorium B	4.03.A - Advancing LCI for the Bioeconomy: Land Use Change and Biogenic Carbon Accounting ...		
	Intro	4.03.B.T01 - Integrating Earth Observation and Spatially Differentiated Impact Indicators to Advance Sustainability Assessment of Cocoa Expansion Stephan Pfister , Ecological Systems Design, Institute of Environmental Engineering, ETH Zurich, Switzerland	4.03.B.T02 - Emission Footprints of Agriculture in 2050 Chaidir Arsyian Adlan , Radboud University Nijmegen, Netherlands
Foyer (level3)	3.04 - From Earth to Space: Enhancing Life Cycle Assessment for Sustainable Space Activities ...		
	Intro	3.04.T01 - Application of PEF method in the space sector: lessons learned and challenges to overcome An De Schryver , PRé Sustainability, Belgium	3.04.T02 - Evolving Data and Modelling Approaches in Iterative LCA for Space Missions Stefanie De Smet , VITO, Belgium
Room 06	3.12 - Quantifying What We Avoid: LCA for Evaluating Waste Prevention and Reuse ...		
	Intro	3.12.T01 - What Should We Do With Our Textile Waste? Diego Penalzo , Research Institutes of Sweden AB (RISE), Sweden	3.12.T02 - Assessing the System-Wide Environmental Impacts of Food Losses in Primary Production: A Consequential Life-Cycle Framework Silvia Fernández González , Beta Technological Centre (BETA), Universitat de Vic - Universitat Central de Catalunya (UVic-UCC), Spain

TUESDAY PLATFORM PRESENTATIONS BLOCK 2

	11:40	11:55	12:10
Auditorium A	from Algae and Beyond Lea Braud, Nora Schelte, Juan Jose Gallardo Rodriguez, Laura Monteiro		
	4.01.B.T03 - Early Stage Life Cycle Sustainability Assessment of Fuel Production from a Flexible Feedstock System Shravya Hebbur Murali , GreenDelta GmbH, Germany	4.01.B.T04 - Towards Integrated Life Cycle Sustainability and Circularity Assessment for Emerging Aquaculture Systems: Insights from INNOAQUA Carlos León Perfecto , Sustainn - sustainability innovation SL, Spain	4.01.B.T05 - LCA of Novel Microalgal Production and Biorefinery Technologies: Insights from a Multi-EU-Project Workshop Massimo Pizzol , Aalborg University, Denmark
Auditorium B	Li Shen, Adlan Chaidir, Birka Wicke		
	4.03.B.T03 - Land-Use Change Emissions Limit Climate Benefits of Biobased Chemicals Steeff Hansasen , Radboud University Nijmegen, Netherlands	4.03.B.T04 - Carbon in Soil, Impacts Elsewhere: Life Cycle Trade-offs of Soil Carbon Sequestration Strategies Christhel Andrade Díaz , National Research Institute for Agriculture, Food and Environment (INRAE), France	4.03.B.T05 - Integrating mass balanced biogenic carbon attributes into certified product carbon footprints Malina Nikolic , Meo Carbon Solutions GmbH, Germany
Room 01/02	Antoinette Ott, Enrico Tormena		
	3.04.T03 - Simplified Life Cycle Assessment of a Battery Module for Reusable Launch Vehicles – Methodological Choices and Initial Results Marnix Verkammen , EcoDeltaV Sàrl, Switzerland	3.04.T04 - Leveraging Uncertainty Assessment for Insight into Space System Life Cycle Assessments Jason James , Exponent, Inc., United States	3.04.T05 - Parametric LCA for Space Léa Bitard , Resilio SA, Switzerland
Room 06	Gudrun Obersteiner, Silvia Schütz		
	3.12.T03 - Reduced climate impact from policies to prevent and valorise bread waste in Sweden Mattias Eriksson , Swedish University of Agricultural Sciences (SLU), Sweden	3.12.T04 - From Gross to Net Benefits: Rebound Effects in Life Cycle Assessment of Food Waste Interventions Niina Sundin , Swedish University of Agricultural Sciences (SLU), Sweden	3.12.T05 - Circular and Electrified Freight Futures: A Business Model Life Cycle Assessment Approach Julia Lindholm , IVL Swedish Environmental Research Institute, Sweden

TUESDAY PLATFORM PRESENTATIONS BLOCK 3

	13:55	14:00	14:15
Auditorium A	4.02 - Advancing Ecosystem Services Assessment and Biodiversity Footprinting in Bio-Based and		
	Intro	4.02.T01 - Integrating Biodiversity and Ecosystem assessment in LCA: Lessons Learnt from Early Testing of A-Track's Harmonized Approach in the wine sector Marina Isasa , TECNALIA, Spain	4.02.T02 - Regionalizing Biodiversity Impacts in Life Cycle Assessment: How Is It Implemented in Practice? Eugene Sohn , University of Hohenheim, Germany
Auditorium B	1.03 - Geographic Precision in Life Cycle Assessment: Tools, Data and Methods for EU		
	Intro	1.03.T01 - Customs Data-Based Methodology for Determining Market Processes in Life Cycle Assessment Chunshuo Ge , Chalmers University of Technology, Sweden	1.03.T02 - Quantifying the Impacts of Ship Noise on Marine Biodiversity in European Seas using LCIA Zoë Groenewoud , Norwegian University of Science and Technology (NTNU), Norway
Foyer (level3)	3.08 - LCA Challenges & Opportunities in the Fast-Moving Consumer Goods (FMCG) Industry ...		
	Intro	3.08.T01 - The role of LCA in supporting environmental claims Odile Koenders , sgs, Netherlands	3.08.T02 - Development of an LCA-based method for assessing the environmental impact of fragrance concentrates: application to cosmetic products Jacques L'Haridon , L'Oreal, France
Room 06	4.04 - Conflict between Safety and Circularity: Integrated Approaches to Inform Product and		
	Intro	4.04.T01 - End-of-Waste Assessment and Multi-Cycle Life Cycle Assessment (mLCA) Contributions to Circular and Safe Secondary Material Use Mieke de Jager , Ecomatters B.V., Netherlands	4.04.T02 - A Fully Automated Life Cycle Assessment Model for SSbD-Driven and Circularity-Oriented Lubricant Design Max Frederik Bringmann , GreenDelta, Germany

TUESDAY PLATFORM PRESENTATIONS BLOCK 3

	14:30	14:45	15:00
Auditorium A	Circular Systems Mateo Saavedra del Oso, Mohammad Naji, Stanley Zira, Ira Bhattarai		
	4.02.T03 - Biodiversity Indicators in the Boreal Forestry Sector: Mapping the Biodiversity Indicators for LCA Study Mohammad Naji Nassajfar , European Forest Institute, Finland	4.02.T04 - Bridging Global and Local Environmental Impact Evaluation of Offshore Wind Farms Through Integration of Life Cycle Assessment and Ecosystem Services Assessment. Lotte Stremersch , Ghent University, Belgium	4.02.T05 - Title: A systemic view of impacts on biodiversity using LCA and NCA- Case study perspective Stanley Zira , Research Institutes of Sweden AB (RISE), Sweden
Auditorium B	Sustainability Governance Stephan Pfister, Emilia Moreno Ruiz		
	1.03.T03 - Characterization Factors for Water Consumption: Freshwater Habitat Change Potential Resulting From Streamflow Depletion Lola Rousseau , Norwegian University of Science and Technology (NTNU), Norway	1.03.T04 - Integrating Machine-Learning-Based Population Models with High-Resolution Atmospheric Fate Modeling for Spatially Refined PM2.5 Exposure in LCIA Saumya Sadhu , University of Graz, Austria	1.03.T05 - Assessing Variability of Urban Scale Emissions in Life Cycle Toxicity and Ecotoxicity Characterization Alessandro Francini , University of Modena and Reggio Emilia, Italy
Room 01/02	Rodrigo Alvarenga, Luca Zampori		
	3.08.T03 - Diapering and Beyond: Bridging the Gap Between Consumer Product Use Experience and Behavioral Modelling in LCA Maria Fernanda Gonzalez , Procter & Gamble, Germany	3.08.T04 - Polyethylene Packaging Generally Shows Lower Life Cycle Impacts than Alternatives in Europe and the United States, Despite Different End-of-Life Allocation Methods Tasja Hafner-Kuhn , Circular Analytics TK GmbH, Austria	3.08.T05 - Navigating End-of-Life Complexity: Perspectives on Formulated and Assembled Consumer Products Caleb Gravesen , Procter & Gamble, United States
Room 06	System Design Sophie Huysveld, Kobe Vulsteke		
	4.04.T03 - From Waste to Value? Navigating Trade-Offs in Apple Side-Stream Valorisation Sini Valmari , Natural Resources Institute Finland, Finland	4.04.T04 - Towards Safe and Sustainable Bioaromatics: Techno-Economic and Life Cycle Assessment of Lignin-Derived Phenolics Albane Bauby , Engineer, France	4.04.T05 - Ecodesign of Lubricants for Bottle Conveyors - the BBBC CLEANLUBE Project Sylvie Gros Lambert , University of Liège, Belgium

TUESDAY POSTER PRESENTATIONS

POSTER SCHEDULE

Setup	08:00-09:00
Poster exhibition	09:00-18:00
Poster social	17:00-18:00
Take down	18:00-18:15

POSTER SESSIONS

1.03.P - Geographic Precision in Life Cycle Assessment: Tools, Data and Methods for EU Sustainability Governance | Stephan Pfister, Emilia MorenoRuiz

1.03.P-Tu001 Life Cycle Inventory and Allocation Analysis of Land Use Change in Global Copper Mining | **Ayano Suzuki**, Waseda University, Japan

1.03.P-Tu002 Variable Rate Fertilization Strategies for Emissions Reduction: Spatially Resolved Life Cycle Assessments of Canadian Cereal Crop Production | **Sofia Bahmutsky**, University of British Columbia (UBC), Canada

1.03.P-Tu003 A GIS-LCA Workflow for Spatially Explicit Quantification of Ecosystem-Quality Impacts from Land-Use Change: Application to the Tours-Bordeaux High-Speed Rail Corridor | **Asmaa Benzidane**, Institute for Applied Research and Civil Engineering Experimentation (IREX), France

1.03.P-Tu004 Evolution of Chemicals and Plastics Coverage in ecoinvent (v3.9-3.12): Insights from the Polycarbonate Value Chain | **Elina Anagnostou**, ecoinvent, Switzerland

1.03.P-Tu005 National and Regional Life Cycle Inventory Database for the Italian Bovine Sector: A Cradle-to-Gate Assessment of Environmental Hotspots

| **Umile Gianfranco Spizzirri**, University of Bari Aldo Moro, Italy

1.03.P-Tu006 A National Dataset of Plant Based Meat Analogues in Turkish Supermarkets: Towards a Spatially Explicit Life Cycle Inventory Linking Nutritional Profile, Ingredient, and Region-Specific Indicators | **Bilge Bas**, Istanbul Bilgi University, Türkiye

1.03.P-Tu007 EU Country-Level Regionalization Light-Duty Vehicles Environmental Impact: an Extended Well-to-Wheel Environmental Assessment | **Anne BOUTER**, European Commission, Joint Research Centre, Italy

1.03.P-Tu009 A Five-Indicator Comparability Index Framework for Screening and Ranking Life Cycle Assessment Studies | **Pantelis Manakas**, School of Chemical Engineering, National Technical University of Athens, Greece

1.05.P - S-LCA Theoretical and Methodological Advances: Gaps, Proposals and Pathways for LCSA Integration | Arij MohamadRadwanOmarChabrawi, Monika Cera

1.05.P-Tu010 Sustainability Pillar Integration in LCSA through System Dynamics Thinking: Mapping & Preliminary Modelling of Interlinked Cause-Effect Chains in a PVC Case Study | **Nirvana Marting Vidaurre**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

1.05.P-Tu011 Social Implications of Circularity in Textile Value Chains | **Diego Penalosa**, RISE Research Institutes of Sweden, Sweden

1.05.P-Tu012 Safe and Sustainability by Design: Stakeholder Engagement in Socio-Economic Assessments | **Sarah Strobl**, University of Graz, Austria

1.05.P-Tu013 Aggregation and Comparability in Social Life Cycle Assessment Within a Safe and Sustainable by Design Framework: A Four Use-Case Study on Lubricant Additives | **Jonas Hoffmann**, GreenDelta GmbH, Germany

1.05.P-Tu014 Advancing Nutritional Functional Units in Life Cycle Sustainability Assessment of Gluten-Free Food Systems | **Beauty Ezinne Japhet**, University College Dublin, Ireland

3.04.P - From Earth to Space: Enhancing Life Cycle Assessment for Sustainable Space Activities | Antoinette Ott, Enrico Tormena

3.04.P-Tu016 Life Cycle Assessment of the Copernicus CO2M Flight Calibration Unit Developed at the Centre Spatial de Liège | **Lucas Dupuis**, Université de Liège, Belgium

3.04.P-Tu017 Assessing Readiness for Implementing Life Cycle Thinking and Ecodesign in Space Projects: A Cross-Sector Benchmarking Analysis | **Javier Urgiles Ortiz**, Flemish Institute for Technological Research (VITO), Belgium

3.04.P-Tu018 Deployment Feedback On OASIS: A Parametric Environmental Assessment Tool For Orbital Systems | **Xavier Loizillon**, SCALIAN, France

3.04.P-Tu019 The Environmental Footprint of Space Activities: an EU Perspective on Scientific State of Play, Challenges and Opportunities | **Antoinette Ott**, European Commission - Joint Research Centre (JRC), Italy

3.07.P - From Waste to Resource: Life Cycle Perspectives on Recycling, Recovery and Treatment

3.07.P-Tu020 Environmental assessment of a building board for circular construction made from recycled materials | **Pablo de la Reta**, University of Liège, Belgium

3.07.P-Tu021 Life Cycle Assessment of End-of-Life Artificial Turf: Hotspots and Optimization in Recycling Systems | **Maike-Katharina Senk**, Institute for Industrial Ecology, University Pforzheim, Germany

3.07.P-Tu022 Life Cycle Assessment of Pyrolysis-Based Feedstock Recycling as an Enabler for Circular Polymer Value Chains | **Tim Faruss**, Institute of Technical Thermodynamics, RWTH Aachen University, Germany

3.07.P-Tu023 Environmental Benefit of Hydrogen Production from Waste Silicon: A Case Study of the Semiconductor Industry | **Chihchi Huang**, National Cheng Kung University, Taiwan (Greater China)

3.07.P-Tu024 Life Cycle Assessment of Energy-saving Wastewater Treatment Systems | **Shota Uchizono**, Tohoku University, Japan

3.08.P - LCA Challenges & Opportunities in the Fast-Moving Consumer Goods (FMCG) Industry | Rodrigo Alvarenga, Luca Zampori

3.08.P-Tu025 Avoided Emissions Case Study: Reducing Use-Phase Environmental Impacts in the Dishwashing Business | **Jasmin Martinez**, Procter & Gamble, Belgium

3.08.P-Tu026 Towards Strategic Implementation of Renewable Value Chains in Personal Care Products | **Ulla Létinois**, DSM-Firmenich SA, Germany

3.11.P - Qualitative Life Cycle Studies: Exploring and Analysing the Practical Meaning of LCA | Henrikke Baumann, Monia Niero, Sjouke Beemsterboer, Michael Martin

TUESDAY POSTER PRESENTATIONS

3.11.P-Tu027 Life Cycle Assessment theory and practice: Observations and discussion based on the composite sector | **Ulrike Kirschnick**, Karlsruhe Institute of Technology (KIT), Germany

3.11.P-Tu028 Learning Within Life Cycle Assessment Processes: A Deep-seated Assumption Worthy of (Re) investigation | **Axel Lindfors**, Linköping University, Sweden

3.11.P-Tu029 Supporting Net-Zero Policy Under Uncertainty: A Scenario-Based Life Cycle Assessment of the London Residential Stock | **Mengcheng He**, UCL, United Kingdom

3.11.P-Tu030 Application of Weighting Method in Life Cycle Assessment: A Case Study of Wastewater Reclamation Systems | **Chihchi Huang**, National Cheng Kung University, Taiwan (Greater China)

3.11.P-Tu031 Assessing Sustainability Strategic Alignment in Product Development Decision-Making at Volvo Cars Using Analytic Network Process | **Lea Premmert**, Chalmers University of Technology, Sweden

3.11.P-Tu032 Stakeholder Perspectives on Automated LCA and Decision-Making | **Jóhanna Sofia Guldbrandsø Nolsøe**, Aalborg University, Denmark

3.11.P-Tu033 Exploring LCA Practice of Goal Definition and Scoping in Studies of Carbon Capture and Utilization | **Evelina Nyqvist**, Chalmers University of Technology, Sweden

3.11.P-Tu034 Policy-guided and Market-driven Message-LCA: Distinguishing Different Forms of Virtuality in Environmental Accounting | **Jan Sandstad Næss**, Norwegian University of Science and Technology, Norway

3.11.P-Tu035 Recommend Combining LCA and DEA socio-eco-efficiency approaches for European Cereal

Production evaluation and predictive optimisation | **Hamza Taoumi**, Sidi Mohamed Ben Abdellah University, Morocco

3.12.P - Quantifying What We Avoid: LCA for Evaluating Waste Prevention and Reuse | Gudrun Obersteiner, Silvia Schütz

3.12.P-Tu036 Addressing the gap of natural aggregate accounting in LCIA methods for the proper evaluation of its substitution by recycled aggregate from construction and demolition waste | **Lineker Max Goulart Coelho**, Technical University of Denmark - DTU, Denmark

3.12.P-Tu037 Environmental and Economic Hotspot Analysis of Supercritical CO₂ Extraction of Marine Collagen | **Iris Joy Abrigo**, Ghent University, Belgium

3.12.P-Tu038 If Less Is More, What Is Less? A Typology of Sufficiency Measures for Life Cycle Assessment | **Lucia Piron**, KTH Royal Institute of Technology, Sweden

3.12.P-Tu039 From Linear to Circular Product Development in Construction: A DRASTIC Approach Involving LCA Screening | **Lisa Damen**, Vlaamse Instelling voor Technologisch Onderzoek (VITO), Belgium

3.12.P-Tu040 Environmental and Economic Assessment of On-Site Surplus Bread Upcycling Versus Bioethanol Recovery | **Milena Siemiatkowska**, UCPH, Denmark

3.12.P-Tu041 How Can the Material Footprint of Clothing Consumption Be Reduced? A Bottom-Up Analysis of Reduction Pathways | **Kobe Vulsteke**, Ghent University, Belgium

3.12.P-Tu042 Waste as a Climate Service : Context-Dependent Climate Performance of rMSW Valorisation

Pathways | **Alex Newman**, University of Sheffield, United Kingdom

3.12.P-Tu043 Clothing Consumption Uncovered – a Quantitative Assessment of Climate Impact | **Frida Hermansson**, IVL Swedish Environmental Research Institute, Sweden

3.12.P-Tu044 Quantifying the Environmental Impacts of Food Losses in European Primary Production | **Silvia Fernández González**, Beta Technological Centre (BETA), Universitat de Vic - Universitat Central de Catalunya (UVic-UCC), Spain

3.12.P-Tu045 Where Tradition Meets Sustainability: A Combined LCA and LCC of Fermented Fish Paste (Bagoong) in Philippine Coastal Communities | **Iris Joy Abrigo**, Ghent University, Belgium

3.12.P-Tu046 Is Circularity Worthwhile for Blended Textile Waste? The Case of Elastane Blended with Polyester | **Greg Peters**, Chalmers University of Technology, Sweden

4.01.P - Advancing and Aligning Life Cycle Approaches for Emerging Bio-Based Systems: Lessons from Algae and Beyond | Lea Braud, Nora Schelte, JuanJose GallardoRodriguez, Laura Monteiro

4.01.P-Tu047 Advancing Algae LCAs through Harmonization: Insights from a Community of Practice on Challenges, Needs, and Future Directions | **Jean-Baptiste Thomas**, KTH Royal Institute of Technology, Sweden

4.01.P-Tu048 Defining Baseline Scenarios for Agro-Industrial Side-Streams: A Life Cycle Assessment of Potato Processing Residues | **Sonia Ascaso**, Instituto ENERGAIA. Universidad de Zaragoza, Spain

4.01.P-Tu049 Environmental Assessment of Natural Pigment Production: A PRISMA Review of Technological Hotspots and LCA Gaps Across Biological Systems | **Laura Quineche Minaya**, Ghent University and University of Antwerp, Belgium

4.01.P-Tu050 Integrating Life Cycle Assessment into Eco-Design: A Real World Case Study on Bio-Based Composites | **Mariana Ochodková**, SAM Research Group, KU Leuven, Belgium

4.01.P-Tu051 Prospective Life Cycle Assessment of Bio-Based Products at Early Development Stages: Methodological Framework and Application | **Zulfiqar Ali**, University of Coimbra, ADAI, Portugal

4.01.P-Tu052 Early-stage life cycle assessment of cellulose modification with itaconic acid: decision support for process design | **Brener Gomes**, Chalmers University of Technology, Sweden

4.01.P-Tu053 How important is catalyst stability for the environmental performance of bio-derived ethanol-to-1,3-butadiene conversion? | **Simoni Da Ros**, WMG, University of Warwick, United Kingdom

4.01.P-Tu054 Prospective life cycle assessment of agro-industrial waste-based panels | **Érika Barrak**, Univ Coimbra, ADAI, Portugal

4.01.P-Tu055 Bridging the Scale Gap: A Regional Life Cycle Assessment of Industrial Seaweed Production in China to Inform Global Upscaling Strategies | **Vita Weitong Xu**, KTH Royal Institute of Technology, Sweden

4.01.P-Tu056 Life cycle assessment of a biorefinery based on waste biomass derived from piggery wastewater treatment photobioreactors. | **Bárbara Muñoz Madariaga**, University of Valladolid, Spain

TUESDAY POSTER PRESENTATIONS

4.01.P-Tu057 Life Cycle Assessment (LCA) of Micro and Macroalgae Productions: Approaches and Challenges at LOCALITY Project | **Lais Speranza**, GreenCoLab – Associação Oceano Verde, Universidade do Algarve/ Centro de Ciências do Mar do Algarve (CCMAR/CIMAR-LA), Portugal

4.01.P-Tu058 Environmental Assessment of an Industrial Scale Spirulina Cultivation and Biorefinery Process | **Laura Monteiro**, A4F - Algae 4 Future, Portugal

4.01.P-Tu059 Climate Change Impacts of Biochar Production from *Macrocystis pyrifera*: A Life Cycle Assessment in Chile | **Edmundo Muñoz**, Center for Advancing Agri-Food System Transformation (CA2FST), Chile

4.01.P-Tu060 Enhancing the Circular Bioeconomy: Life Cycle Assessment of Industrial Microalgae Production in a Closed-Loop Recycling Culture Medium System | **Maksims Feofilovs**, Riga Technical University, Latvia

4.01.P-Tu061 From Biomass to Products: A Gate-to-Gate Life Cycle Assessment of Seaweed Processing Pathways for Industrial Decision-Making | **Vita Weitong Xu**, KTH Royal Institute of Technology, Sweden

4.01.P-Tu062 Life Cycle Assessment of Waste Biomass Derived Extracts in Photo-Fenton Wastewater Treatment: Dominance of Operational Energy over Material Synthesis | **Dimitrios Ziotas**, University of Bologna, Italy

4.01.P-Tu063 Assessing Circular Economy Strategies in Bio-Based Protein Products Through Prospective Life Cycle Assessment (LCA) | **Joan Berzosa Corberá**, Knöell Iberia S.L., Spain

4.01.P-Tu064 Circular Fertiliser Pathways From Biodigested Sugarcane Vinasse: A Nutrient-Equivalent Life Cycle Assessment | **José Cerdán Morillo**, University of

São Paulo (USP), Brazil

4.01.P-Tu065 Life Cycle Assessment of Urban Tomato Production: Comparison of Conventional, Organic, and Regenerative Systems in Santiago, Chile | **Edmundo Muñoz**, Center for Sustainability Research, Universidad Andres Bello, Chile

4.01.P-Tu066 Towards an Integrated Life Cycle Sustainability Assessment Framework for Circular Valorisation of Bovine and Ovine Co-products | **Sameen Fatima**, University College Dublin, Ireland

4.01.P-Tu067 Additive Manufacturing with Chitin/Chitosan Biopolymers for Biomedical Applications: an LCA Approach | **Francisco Gouveia**, 3drivers – Engenharia, Inovação e Ambiente SA; IN+Instituto Superior Técnico, University of Lisbon, Portugal

4.01.P-Tu068 From Food Waste to Chitosan-Based Films for Sensor Applications: A Scenario-Based Life Cycle Assessment of Upscaled Green Chitosan Extraction Compared to Conventional Routes | **Martina Menegaldo**, Ca' Foscari University of Venice, Italy

4.01.P-Tu069 Urban Leaf Waste Valorisation: LCA of Bio-based Material Pathways | **Melanie Ströbel**, RPTU University Kaiserslautern-Landau, Germany

4.01.P-Tu070 Sustainability Steering of Bio-Based PFAS-Free Water-Repellent Textiles: LCA Modelling Challenges | **Delphine Cerica**, University of Liège, Belgium

4.01.P-Tu071 Life Cycle Assessment of Bio Based PFAS Free Water Repellent Finishes: Polyurethane vs. Non Isocyanate Polyurethane Dispersions | **Jean Metzmacher**, University of Liège, Belgium

4.01.P-Tu072 Climate Impacts of Wood Fibre as Peat Replacement in Growing Media in Forest Tree Nurseries

| **Lauri Leppäkoski**, University of Helsinki, Finland

4.01.P-Tu073 Up-scaling the cultivation of Macauba palm, an alternative oil crop in Brazil, investigating different land-use scenarios through consequential LCA | **Ana Cavallo**, University of Hohenheim, Germany

4.01.P-Tu074 Assessing the Environmental Dynamics of Emerging Bio-Based Agricultural Systems: A Life Cycle Approach to P3HB-Coated Fertilizers | **Kamila Sirotná**, University of Chemistry and Technology Prague (UTC), Czech Republic

4.01.P-Tu075 Environmental and Economic Sustainability of Lignocellulosic Feedstocks for Fermentation-Derived Textile Fibres: A Comparison with First-Generation Benchmarks | **Trang Nhu**, Ghent University, Belgium

4.01.P-Tu076 Life Cycle Assessment Of Innovative Plant Extracts For Biobased Cosmetics | **Alexander Peeters**, Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium

4.01.P-Tu077 Life cycle assessment of an industrial Black Soldier Fly system using agri-food by-products | **Paula Quinteiro**, University of Aveiro (UA), Portugal

4.02.P - Advancing Ecosystem Services Assessment and Biodiversity Footprinting in Bio-Based and Circular Systems | **Mateo SaavedradelOso**, Mohammad Naji, Stanley Zira, Ira Bhattarai

4.02.P-Tu078 Biodiversity Impacts at Organisational Level: Lessons from the National Trust, UK | **Maria Eugenia Correa-Cano**, University of Exeter, United Kingdom

4.02.P-Tu079 A Framework To Include Marine Biodiversity Impact in Fisheries Life Cycle Assessment | **Louise**

Daniel, Université du Littoral Côte d'Opale, UMRT 1158 BioEcoAgro, USC ANSES, INRAe, Univ. Artois, Univ. Lille, Univ. Picardie Jules Verne, Univ. Liège, France

4.02.P-Tu080 Adapting Life Cycle Impact Assessment Models for use in Ecosystem Restoration | **Simen Kirkhorn**, Norwegian University of Life Sciences (NMBU), Norway

4.02.P-Tu081 Integrating Ecosystem Services into Life Cycle Assessment of Bio-Based Aviation Fuels from Perennial Grasses on European Abandoned Land | **Cristina-Maria Iordan**, SINTEF, Norway

4.02.P-Tu082 A Co-Simulation Framework for Evaluating Whole-Life Carbon, Biodiversity, and Health Across Urban Morphology and Residential Archetypes | **Omer Raz**, University College London (UCL), United Kingdom

4.02.P-Tu083 From field monitoring to LCIA: advancing biodiversity and climate indicators for ocean restoration in Life Cycle Assessment | **Paola Luna**, Nestlé Purina Petcare Europe, France

4.03.P - Advancing LCI for the Bioeconomy: Land Use Change and Biogenic Carbon Accounting | **Li Shen**, Adlan Chaidir, Birka Wicke

4.03.P-Tu084 Life-cycle climate performance of *Lepidium campestre* (Field Cress) oil for HVO: attributional baseline and consequential scenarios for co-product pathways and Nordic land availability | **Vaibhav Shrivastava**, Swedish University of Agricultural Sciences, Sweden

4.03.P-Tu085 Scaling Biochar Application from Farm to National Level in Belgium: Dose-Dependent Soil Effects and Environmental Trade-Offs | **Tom Van Duyse**, KU Leuven; University of Antwerp, Belgium

TUESDAY POSTER PRESENTATIONS

4.03.P-Tu086 A Consequential Prospective Life Cycle Assessment of a Polylactic Acid-Based Insulation Foam Panel: Comparing Static and Dynamic Approaches with End-of-Life Considerations | **Hannah Peeters**, University of Antwerp, Belgium

4.03.P-Tu087 Expanding circular fertigation: multi-crop life cycle inventory for hydroponic fertilization with treated human urine | **Jonatan Manosalva**, Autonomous University of Barcelona (UAB), Spain

4.03.P-Tu088 Revisiting the Climate Benefits of Wood-based Products Using Future-Oriented Displacement Factors | **Amelie Müller**, Leiden University and Flemish Institute for Technological Research (VITO), Netherlands

4.04.P - Conflict between Safety and Circularity: Integrated Approaches to Inform Product and System Design | Sophie Huysveld, Kobe Vulsteke

4.04.P-Tu089 Environmental Sustainability Assessment of Innovative Fire-retardant Formulations at Pilot Scale | **Nidhiben Patel**, Institute of Energy Systems and Environment, Riga Technical University, Latvia

4.05.P - Nature's Feedstocks: LCA of Emerging Bio-Based Products and Processes

4.05.P-Tu091 Insect Frass Fertilizer in Circular Agriculture: A Life Cycle Perspective | **Tatiana Trecáková**, University of Chemistry and Technology Prague, Czech Republic

4.05.P-Tu092 Sustainability Assessment of a Cascading Valorization Route for Invasive Crayfish in Austria | **Ursula Knaack**, University of Applied Sciences Vienna (UAS Technikum), Austria

4.05.P-Tu093 Environmental Performance of Tenebrio molitor Protein Powder | **Ana Dias**, University of Aveiro (UA), Portugal

4.05.P-Tu094 Assessing the Economic Sustainability of Insect-Based Foods: TEA and LCA of Tenebrio Molitor-Enriched Cereal Bars | **Marta Ferreira Dias**, GOVCOPP, DEGEIT, University of Aveiro (UA), Portugal

SETAC Europe Awards



The Society of Environmental Toxicology and Chemistry (SETAC) Europe strives to honor and recognise outstanding contributions of individuals or groups of individuals to environmental science, and to the Society.

Learn more and consider applying for a SETAC Europe Award by January.

Noack Laboratorien Outstanding Science Career Award

Recognizes contributions to environmental toxicology and chemistry over a prolonged period of time.

Rifcon Early Career Scientist Award

Awards an original piece of scientific research, policy or other professional achievement undertaken by an early career scientist.

Young Scientist Life Cycle Assessment Award

For exceptional achievements by a young scientist in the field of life cycle assessment.

Return to Science Grant

Award to stimulate scientists who have experienced a temporary professional break due to childcare e.g., maternity, paternity, adoption, etc.



TIME	SCHEDULE	LOCATION
08:00–09:00	Badge Pickup & Poster Setup	Registration Area / The View
09:00–10:20	Parallel Presentation Sessions	
10:20–11:05	Coffee Break and Poster Sessions	The View
11:05–12:25	Parallel Presentation Sessions	
12:25–13:55	Lunch Break and Poster Sessions	The View
13:55–15:15	Parallel Presentation Sessions	
15:15–16:00	Coffee Break and Poster Sessions	The View
16:00–17:00	Plenary	Auditorium A+B
17:00–17:15	Closing Ceremony	Auditorium A+B

AUDE ARKAM

Sanofi

PAS 2090:2025: Setting the Global Standard for LCA to improve Pharmaceutical Environmental Footprinting



Aude Arkam is Sanofi’s Group Head of Eco-design and Circular Economy. With over 20 years of experience in business transformation and sustainability, she is committed to reducing the pharmaceutical sector’s environmental footprint while creating long-term value for patients, businesses, and society.

Over the past four years, Arkam has led a team of eco-design experts and life cycle assessment specialists, driving Sanofi’s holistic transformation to integrate environmental performance into product development, operations, and business strategy. Her ambition is to accelerate the shift from product-level eco-design to a systemic approach that transforms entire value chains. Using Life Cycle Assessment as a science-based tool across 16 impact categories, she champions the adoption of PAS2090, an international standard harmonizing LCA methodologies for pharmaceutical products.

Before her current role, Arkam spent five years in Sanofi’s Global Supply Chain and Integrated Business Planning organizations, gaining robust end-to-end understanding of product lifecycles from sourcing to end-of-life management.

Prior to Sanofi, Arkam spent ten years in consulting, supporting organizations through complex transformation programs, and served as Executive Director of a Mexican NGO providing care to 200 children with cerebral palsy, an experience that deepened her commitment to creating positive societal impact.

WEDNESDAY PLATFORM PRESENTATIONS BLOCK 1

	9:00	9:05	9:20
Auditorium A	3.06.A - From Science to Action: Advancing LCA for Consumer Transparency, Policy Integration,		
	Intro	3.06.A.T01 - Improving Robustness and Interpretability by Applying an Uncertainty-First Approach to LCA Kira Lancz , Life Cycle Sustainability, Aalborg University, Denmark	3.06.A.T02 - From Research to Industry to Policy - Integrating Microplastics in LCA in the Apparel and Footwear Sector Emilie Carasso , 2B Policy, Switzerland
Auditorium B	3.01 - Advancing Integrated Sustainability Assessment in Healthcare: Methods and Decision-Support for		
	Intro	3.01.T01 - Cradle-to-grave Life Cycle Assessment of vaccines as an informative tool towards Sustainable Procurement of more environmentally friendly vaccines for Low- and Middle-Income Countries (LMICs) Sebastien Taillemite , ECOVAMED, France	3.01.T02 - Integrating LCA into Industrial Decision-Making: Three Use Cases from Cytiva Emma Linhäll , Cytiva Sweden AB, Sweden
Foyer (level3)	1.02 - Advancing Safe and Sustainable by Design Through Prospective and Life Cycle Sustain		
	Intro	1.02.T01 - A Predictive LCSA Framework for Lubricants within SSbD: Linking Environmental (LCA) and Socioeconomic (LCC, S-LCA, CRM, SVHC) Dimensions across Four Use Cases Jonas Hoffmann , GreenDelta, Germany	1.02.T02 - "Safe and Sustainable by Design" (SSbD) strategy for the development of PFAS-Free coatings for the textile industry Benjamine Belloncle , Materia Nova, Belgium
Room 06	3.02 - Exchanging Primary Supplier Data Along the Value Chain – Approaches, Leanings and		
	Intro	3.02.T01 - Why do Supplier-specific PCFs Often Lack Comparability: Lessons from Multi-Output Chemical Processes. Kranti Navare , Arcadis Belgium N.V., Belgium	3.02.T02 - Managing Missing Primary Operational Data in Dependency-Aware LCA: Lessons From the Rittershoffen Geothermal Plant Jad Diab , Mines Paris, PSL University, France

WEDNESDAY PLATFORM PRESENTATIONS BLOCK 1

	9:35	9:50	10:05
Auditorium A	and Inclusive Decision-Making Maria Rydberg, Luca Zampori, Camille Martin, Pascal Seel		
	3.06.A.T03 - Overview of Potential Technical Advancements in Environmental Footprint Methods Antoinette Ott , European Commission - Joint Research Centre (JRC), Italy	3.06.A.T04 - Linking Pro-Environmental Behaviour Scales with Life Cycle Impacts: Evidence from Household Consumption in Chile Edmundo Muñoz , Universidad Andres Bello, Chile)	3.06.A.T05 - Effects of country specific supply chain modelling for guiding biodiversity assessment of construction materials Rasmus Nøddegaard Hansen , Aalborg University, Denmark
Auditorium B	Policy, Hospitals and Industry Wouter De Soete, Lieselot Boone, Veronica Di Battista, Hannah Novianty Welsh		
	3.01.T03 - Operationalising Pharmaceutical LCA Under Data Scarcity: A Proxy-Inventory Framework for Decision-Support in a Small-Molecule Case Study Daina Romeo , F. Hoffmann-La Roche AG, Switzerland	3.01.T04 - Towards a Common Standard for Pharmaceutical LCAs: Comparison of PAS 2090 and French Medicine Carbon-Score Veronica Di Battista , Arcadis Germany GmbH, Germany	3.01.T05 - Sustainability Assessment of Single-Use Small-Scale Bioreactors: Integrating Environmental, Economic, and Circularity Metrics to Support Better Sustainable Design Decisions Jing Pu , the University of Sheffield, United Kingdom
Room 01/02	ability Assessment Marc Majó, Benjamine Belloncle, Federica Silveri, Antonino Marvuglia		
	1.02.T03 - From multicriteria to multi-objective: proposal of an integrative LCSA based multi-objective model to optimize Safe and Sustainable by Design scenarios identification in prospective studies Lineker Max Goulart Coelho , Technical University of Denmark (DTU), Denmark	1.02.T04 - Prospective LCA and Planetary Boundaries: Designing Societies for Absolute Sustainability Sarah Devecchi , Ca' Foscari University of Venice, Italy	1.02.T05 - Combining risk assessment with LCA to make sofas safe and sustainable Rahul Aggarwal , Chalmers University of Technology, Sweden
Room 06	Challenges for Supplier Engagement Nicole Unger, Iris Kral		
	3.02.T03 - Market averages may obscure structural supply chain uncertainty in LCA and Scope 3 Cormac Dineen , University of Bath, United Kingdom	3.02.T04 - Collaborative LCA in Battery Value Chains: Insights from Stakeholder Workshops Around Primary Data Exchange Noura Rahbani , WeLOOP, France	3.02.T05 - Ensuring Data Quality in a Shifting Landscape: Challenges and Opportunities in Supplier LCI Collection Kristin Wetter , Essity Hygiene and Health AB, Germany

WEDNESDAY PLATFORM PRESENTATIONS BLOCK 2

	11:05	11:10	11:25
Auditorium A	3.06.B - From Science to Action: Advancing LCA for Consumer Transparency, Policy Integration,		
	Intro	3.06.B.T01 - Are Environmental Indicators Just? Analysis and Framework for Assessing the Justice Dimension of Environmental Indicators Jan Matušík , University of Chemistry and Technology Prague (UCT), Czech Republic	3.06.B.T02 - Democratizing Life Cycle Assessment: Challenges and Opportunities for Broad Adoption Mila Guerin , Holis, France
Auditorium B	2.01 - Accelerating and Safeguarding Automated LCA: Scalability with Transparency, Trust, and		
	Intro	2.01.T01 - Automated AI-Assisted LCA Calculation at Scale to Meet Increasing Market Demands Johannes Stadtmüller , Evonik Operations GmbH, Germany	2.01.T02 - LCA Automation in a Project Orientated Industrial Setting Parnian Doostdar , Innovate UK, Mura Technology Limited, University of Warwick, United Kingdom
Foyer (level3)	2.03 - Innovative LCA Visualisation Approaches and Advances in AI-Integrated Digitalisation ...		
	Intro	2.03.T01 - Digital Tool for Preliminary Life Cycle Assessment: Supporting Non-Experts to Visualise Methodological Choices for Reliable Studies Francesco Barilli , Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland	2.03.T02 - Advanced LCA Visualisation with Real-World IoT Data for Circular Supply Chains Friedrich Halstenberg , GreenDelta, Germany
Room 06	3.03 - From Decommissioning to Design: Integrating Circular Economy into LCA of Energy		
	Intro	3.03.T01 - Power Infrastructure Lifespans and End-of-Life Dynamics for Circular Energy System Design Natanael Bolson , University of Birmingham, United Kingdom	3.03.T02 - Incorporating European Union Policies into Prospective Life Cycle Assessment of Solar Photovoltaics Deployment to 2050 Jhud Mikhail Aberilla , University of the Philippines Diliman, Philippines

WEDNESDAY PLATFORM PRESENTATIONS BLOCK 2

	11:40	11:55	12:10
Auditorium A	and Inclusive Decision-Making Maria Rydberg, Luca Zampori, Camille Martin, Pascal Seel		
	3.06.B.T03 - Same LCA Score, Different Sustainability? From "LCA+" towards a Multidimensional Sustainability Assessment Framework Yanne Goossens , Thünen Institute, Germany	3.06.B.T04 - Operationalising Sustainability with Key Performance Indicators as LCA Complementary Tools for Businesses and Policy-makers: Maximum Energy-use Threshold in Controlled Environment Agriculture. Shiwei Ng , TUMCREATE Ltd, Singapore	3.06.B.T05 - Five Shades of Circularity: A Multi-Indicator Framework Cristian Pérez-Hernández , Ghent University, Belgium
Auditorium B	Regulatory Alignment Ravinder Menon, Antonino Marvuglia, Didier Beloin-Saint-Pierre, Daniel Bochnitschek		
	2.01.T03 - Scalable and Trustworthy Automated LCA: Balancing AI Efficiency with Expert Credibility Margaux Durand , Holis, France	2.01.T04 - From Sparse Descriptions to Structured Inventories: A Tiered LLM Framework for Transparent Automated LCA Stephan Pfister , ETH Zurich, Switzerland	2.01.T05 - Efficiency and Effectiveness in AI Applications for LCA: Current Trends and Potential Improvements Simone Cornago , Radboud University Medical Center (Radboudumc), Netherlands
Room 01/02	Yahong Dong, Olubukola Tokede		
	2.03.T03 - Towards Semantic Search and Other AI Application for LCA Using Text Embeddings and Vector Storage Roel Degens , Flemish Institute for Technological Research (VITO), Netherlands	2.03.T04 - A Coupled Digital Twin and LCA Framework Applied to Microalgal Biorefineries Jóhanna Sofia Guldbrandsø Nolsøe , Aalborg University, Denmark	2.03.T05 - Safe Spaces for Unknown Cases: Developing Multivariate LCA Stuart Walker , University of Sheffield, UK
Room 06	Systems Fanran Meng, Jennifer Hawkin, Rebecca Bates		
	3.03.T03 - From Life-Cycle Assessment to Interdisciplinary Insights: Intertwined Dimensions of Fessenheim Nuclear Power Plant Decommissioning from its Human-Environments Observatory Paul Robineau , LASIRE, UMR 8516 - CNRS / Université de Lille, France	3.03.T04 - Beyond Maximum Recovery: Stress-Testing Circularity, Environmental Impacts, and Material Criticality at End-of-Life for Offshore Wind Célestin Demuytere , Ghent University, Belgium	3.03.T05 - Wind Turbines as Material Assets: Rethinking Circularity at End of Life Fanran Meng , University of Sheffield, UK

WEDNESDAY PLATFORM PRESENTATIONS BLOCK 3

	13:55	14:00	14:15
Auditorium A	3.06.C - From Science to Action: Advancing LCA for Consumer Transparency, Policy Integration,		
	Intro	3.06.C.T01 - Harmonizing Life Cycle Assessment to Enable Sustainable Consumption and Eco-Design in the Cosmetics Industry Laurent Gilbert , EcoBeautyScore Association, Belgium	3.06.C.T02 - Identifying, Understanding and Addressing the UK LCA Skills Gap. Rachael Rothman , University of Sheffield, United Kingdom
Auditorium B	2.02 - Advancing LCA of Digitalization, ICT and AI: Methodological Developments and Case		
	Intro	2.02.T01 - naKnow: A New Collaborative Knowledge Base on Semiconductors and Electronic Components for Digital LCA Naeem Adibi , WeLOOP, France	2.02.T02 - Comparing Life Cycle Assessment Approaches for ICT Hardware in Building Automation Shoaib Azizi , KTH Royal Institute of Technology, Sweden
Foyer (level3)	1.06 - Towards Accurate Grid Electricity Modelling in LCA Thomas Gibon, Juliana Steinbach,		
	Intro	1.06.T01 - Integrating Prospective and Regionalized LCA Indicators in Energy System Models Matthieu Souttre , CIRAI, Polytechnique Montréal, Canada	1.06.T02 - FIONA: Hourly-resolved electricity mixes for prospective life cycle inventories Isabela Pichardo-Velázquez , Luxembourg Institute of Science and Technology (LIST), University of Luxembourg, Luxembourg
Room 06	3.05 - From Ecodesign to E-Waste Reduction: Applying LCA to Enable Environmentally		
	Intro	3.05.T01 - Integrating User Behavior into Life Cycle Assessment Mayra Montoya Flores , Chalmers University of Technology, Sweden	3.05.T02 - Assessing the Environmental Impacts of Technical Refresh Cycles in Data Centers Using LCA Annie Wyon , Research Institutes of Sweden AB (RISE), Sweden

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	14:30	14:45	15:00
Auditorium A	and Inclusive Decision-Making Maria Rydberg, Luca Zampori, Camille Martin, Pascal Seel		
	3.06.C.T03 - Integrating Life Cycle Assessment into Public Procurement Practices: a Digital Framework for EU Tenders Nicolas Bertoldo , Politecnico di Milano, Italy	3.06.C.T04 - Advancing Sustainable Policy Integration: Insights from Collaboration on Life Cycle Approaches Among Swedish Government Agencies Anna Wikström , Swedish Life Cycle Center/Chalmers University of Technology, Sweden	3.06.C.T05 - Beyond Market Failure: A Rationale for Life Cycle Policy Stijn Van Ewijk , University College London (UCL), United Kingdom
Auditorium B	Studies Anna Furberg, Göran Finnveden, Lina Plataniti, Nina Lövehagen		
	2.02.T03 - Investigating the Material Use and Resource Impacts of the Information and Communication Technology and Entertainment and Media Sectors Anna Furberg , KTH Royal Institute of Technology, Sweden	2.02.T04 - Assessing the Environmental Impacts of AI for Sustainability: LCA of an In-House-Built AI-Powered Team Assistant for Renewable Energy, Operations, and Market Intelligence Lina Plataniti , NORSUS, Norway	2.02.T05 - Early-Stage Material and Design Evaluation Aligned with the EU Ecodesign for Sustainable Products Regulation: A Battery Case Study Integrating Environmental, Economic, and Mechanical Performance Frank Huberth , Fraunhofer Institute for Mechanics of Materials IWM, Germany
Room 01/02	Sabina Bednarova, Gonzalo Puig-Samper Naranjo		
	1.06.T03 - Influence of Imports, Storage, and Curtailment on Environmental Impacts of Prospective French Electricity Mix with High Renewable Penetration Joanna Schlesinger-Martinat , Mines Paris - PSL, France	1.06.T04 - Greenhouse Gas Emissions of Pumped Storage Hydropower Are Misleading Without Temporal Variations: A Comparison of Static and Temporal-Explicit Life Cycle Assessment of the Le Cheylas Plant So Pyay , University of Twente, Netherlands	1.06.T05 - Temperature-Driven Electricity Dispatch Model Update to Generate Building-Relevant Electricity Mixes for Life Cycle Assessment Nick Adams , Mines Paris, Université PSL, France
Room 06	Sustainable Electronics Sabine Lengger, Chiara Sandionigi, Theresa Seeholzer, Edmund Whitmore		
	3.05.T03 - Life Cycle Sustainability Assessment of Formal Pyrometallurgical and Informal Open Burning Recycling for Gold and Copper Recovery from E-Waste Saumya Kumar , University of Manchester, United Kingdom	3.05.T04 - Closing the Loop: The Role of Life Cycle Assessment in Optimising End-of-Life Strategies for Point-of-Care Medical Devices Abstract Sabine Lengger , Silicon Austria Labs GmbH, Austria	3.05.T05 - Repair or Replace? Lessons Learned from the LCA of Smartphone Lifetime Extension Strategies Jáchym Judl , Finnish Environment Institute (Syke), Finland

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POSTER SCHEDULE

Setup	08:00-09:00
Poster exhibition	09:00-17:00
Take down	17:00-17:30

POSTER SESSIONS

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1.02.P-We001 A Multi-Criteria Decision Analysis Framework for Safe-and-Sustainable-by-Design: Steel Slag Mineral Carbonation for CCUS | **Ponnappat Watjanatepin**, KU Leuven, Belgium

1.02.P-We002 Operationalising Safe and Sustainable by Design Through Prospective Life Cycle Sustainability Assessment of Lignin-Based Epoxy Resins | **Karolien Peeters**, Flemish Institute for Technological Research (VITO), Belgium

1.02.P-We003 Integrating Life Cycle Sustainability Assessment and Planetary Boundaries for Early-Stage Design of Wearable Electronic Textiles | **Lola Eelen**, KU Leuven LRD, Belgium

1.02.P-We004 Toward Safe and Sustainable Pharmaceutical Synthesis: Laboratory-Scale and Prospective Life Cycle Assessment of Palladium-Based Heterogeneous Catalyst for Suzuki-Miyaura Coupling | **Laura Åkräs**, KTH Royal Institute of Technology, Finland

1.02.P-We005 Sustainability-by-Design: A Modular Parametric Life Cycle Assessment in Configurable Products | **Bening Mayanti**, School of Technology and Innovation, University of Vaasa, Finland

1.02.P-We006 A Safe and Sustainable Hybrid Solid Electrolyte for Batteries | **Maeva Lavigne Philippot**, Electromobility research center (MOBI), Electric Vehicle and Energy Research Group (EVERGi), Flanders Alliance for Climate Technology (FACT), Vrije Universiteit Brussel (VUB), Belgium

1.02.P-We007 Supporting Design Decisions for PEM Electrolysers Using Uncertainty Aware Prospective LCA | **Jessica Lord**, University of Surrey, Johnson Matthey, United Kingdom

1.02.P-We008 A Life-Cycle-Informed Framework for Quantifying Use-Phase Impacts in Fluid Power Components: A Rotary Hydraulic Valve Case Study | **Miaomiao Liu**, University of Bath, United Kingdom

1.02.P-We009 Advancing Exergy-Based Indicators in Life Cycle Assessment: Integrating Irreversibilities and Resource Degradation | **Sonia Ascaso**, Instituto ENERGAIA. Universidad de Zaragoza, Spain

1.02.P-We010 Prospective Life Cycle Assessment of a Bio-Based Printed Circuit Board Substrate: Environmental and Technical Trade-Offs with Use-Case Sensitivity | **Justine Lebrun**, UCLouvain/ICTEAM, Belgium

1.02.P-We011 Integrating life cycle assessment and design for sustainability for continuous improvement in industrial production systems | **Salvatore Mammana**, University of Bergamo, Italy

1.06.P - Towards Accurate Grid Electricity Modelling in LCA | Thomas Gibon, Juliana Steinbach, Sabina Bednarova, Gonzalo Puig-SamperNaranjo

1.06.P-We012 Representing Future Electricity Systems in Life Cycle Assessment: Insights from a High Renewable Case Study | **Maoming Liu**, University of Otago, New Zealand

1.06.P-We013 GHG Intensity of Electricity Mixes: Incorporating Photovoltaic Generation at Medium Voltage in Germany | **Pamela Molina**, Fraunhofer Institute for Solar Energy Systems (ISE), Germany

1.06.P-We014 A Case for European Average and Residual Electricity Data | **Tomas Ekvall**, Tomas Ekvall Research, Review & Assessment, Sweden

1.06.P-We015 Scaling Prospective Life Cycle Assessment for Global Real Estate Portfolios | **Carlos Kelly**, ASHRAE, United States

2.01.P - Accelerating and Safeguarding Automated LCA: Scalability with Transparency, Trust, and Regulatory Alignment | Ravinder Menon, Antonino Marvuglia, Didier Beloin-Saint-Pierre, Daniel Bochnitschek

2.01.P-We016 Extending Knowledge Graph-Based Life Cycle Assessment Toward Interoperable Product System Modelling | **Lara Baumanns**, Institute for Technologies and Management of Digital Transformation, University of Wuppertal, Germany

2.01.P-We018 Enhancing Robustness in Life Cycle Assessment: A Comprehensive Uncertainty and Sensitivity Analysis of Composite Manufacturing Processes in Aviation | **Sarah Tenbrock**, German Aerospace Center (DLR), Germany

2.01.P-We019 A systematic procedure for quick life cycle inventories on chemicals | **Ivan Muñoz**, 2-0 LCA, Spain

2.01.P-We020 From Efficiency to Scale: Practical Lessons and Risks in Automating Life Cycle Assessment for Industrial Applications | **Andrés Mahecha**, Essity GmbH, Germany

2.01.P-We021 Enabling Life Cycle Inventory Development Through Digital Product Passports and FAIR Data Practices in Industrial Contexts | **Elaheh Aryapour**, Wärtsilä Energy, Finland

2.01.P-We022 Web-based Platform for Managing and Exchanging Primary Data and Product-system Models for Life Cycle Assessment | **Cesar Rodrigo Ruiz-Camou**, National Autonomous University of Mexico (UNAM), Mexico

2.01.P-We023 A Framework for Screening-Level Quantification of Climate Impacts in Agrochemical Industry | **Sebastiano Carlo D'Angelo**, Syngenta Crop Protection AG, Switzerland

2.01.P-We024 Improving the Accuracy of Life Cycle Assessment Data Augmentation for Chemical Data Gaps | **Maximilian G. Hoepfner**, ETH Zurich, Switzerland

2.01.P-We025 Beyond Keyword Search: Knowledge Graph-Driven LLM Retrieval for Life Cycle Inventory Data | **Erasmus Cadena**, Ghent University, Belgium

2.01.P-We026 LLM to streamline LCA: a case study on benefits and challenges for an ex-ante LCA in particle board production | **Hanna Sofia Leiter**, Wood K plus – Kompetenzzentrum Holz GmbH, Austria

2.01.P-We027 Demystifying LCA-Automation: Five Persistent Myths Examined Through Industrial Practice | **Daniel Bochnitschek**, AllocNow, Germany

2.01.P-We028 Digitalising LCA While Strengthening Its Human Dimension: The Role Of The LCA Practitioner In The Age Of AI | **Jean-Baptiste Thomas**, KTH Royal Institute of Technology, Sweden

2.01.P-We029 Integrated Web-Based Dashboard Features to Streamline the Creation of Reliable Environmental Sustainability Assessments |

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2.02.P-We030 Estimating the Global Impact of Artificial Intelligence | **Stanislava Borisová**, dotEnvironment, Sweden

2.02.P-We031 Implementing Catena-X Dataspace Principles for Interoperable PCF Exchange in Semiconductor Supply Chains | **Sarah-Jane Baur**, Fraunhofer Institute for Reliability and Microintegration (IZM), Germany

2.02.P-We032 From cradle to algorithm: a review of AI and Machine Learning integration in LCA towards circular economy transition. | **Gabriele Bernardi**, Sant'Anna School of Advanced Studies, Italy

3.01.P - Advancing Integrated Sustainability Assessment in Healthcare: Methods and Decision-Support for Policy, Hospitals and Industry | Wouter DeSoete, Lieselot Boone, Veronica DiBattista, Hannah NoviantyWelsh

3.01.P-We034 Life Cycle Assessment of Pharmaceuticals: Analysis of Current Methodological Guidance and Outlook for Further Development | **Hannah Welsh**, Technische Universität Berlin, Germany

3.01.P-We035 How to Include Circularity in Pharmaceutical Sustainability Assessments: Bridge Between Industry and Academia. | **Lotte Neckebroek**, Ghent University, Belgium

3.01.P-We036 Sustainability Assessment of Shifting from Multiple-Use to Single-Use Gastrointestinal Endoscopes: A Triple Bottom Line Perspective | **Mojtaba Ahmadinazari**, University of Warwick, United Kingdom

3.01.P-We037 Environmental Sustainability Assessment of the Flemish Population-Based Colorectal Cancer Screening Program | **Bente Verhaegen**, Ghent University, Belgium

3.01.P-We038 Emergency Department Care for Suspected Sepsis: A Life Cycle Assessment for Sustainable Hospital Decision Support | **Simone Cornago**, Radboud University Medical Center, Netherlands

3.01.P-We039 The Impact of Care Pathway and Contextual Variability on the Environmental Footprint of Prostate Cancer Treatment in the Netherlands | **Sifra Eigenraam**, Radboud University Medical Center, Netherlands

3.01.P-We040 From evidence to consensus: defining key indicators for social sustainability assessment in healthcare | **Lisa Van Wilder**, Ghent University, Belgium

3.01.P-We041 Carbon-Neutral Healthcare: Insights from Deriving Long-Term GHG Emission Trajectories for an Austrian General Hospital | **Sebastian Bock**, JOAN-NEUM RESEARCH Forschungsgesellschaft mbH., Austria

3.01.P-We042 Environmental hotspots in intensive care pathways for critically ill sepsis and trauma patients: a process-based life cycle assessment | **Iris Dirks**, Radboudumc, Netherlands

3.01.P-We043 Estimating the Environmental Impacts of Adopting Health Technologies at the Care Pathway Level: A Case Study on Continuous Glucose Monitoring | **Augustin Wattiez**, ICTeam, Belgium

3.01.P-We044 Development and Validation of a Standardized LCA Methodology for Healthcare Pathways: The CLEAR-Path Framework | **Tim Stobernack**, Radboud University Medical Center Nijmegen, Netherlands

3.01.P-We045 Comparative Life Cycle Assessment of a Bench-scale Trastuzumab Manufacturing Process of Different Cultivation Conditions for Process Intensification | **Jens Forré**, Ghent University, Belgium

3.01.P-We046 The environmental impact of using digital display labels in clinical trials | **Lieselot Boone**, Ghent University, Belgium

3.01.P-We047 Decision Support for Clinical Practice – Screening Life Cycle Assessment of Laryngoscope Systems in German Hospitals | **Anna Luthin**, RWTH Aachen University, Germany

3.01.P-We048 Applying Life Cycle Assessment to Clinical Cohort Data: A Comparison of Dialysis and Conservative Kidney Management | **Sjoerd Verbakel**, Radboudumc, Netherlands

3.01.P-We049 Environmental Life Cycle Inventory of Diagnostic Processes in Healthcare Pathways: Coverage and Quality of Existing Literature | **Camille Masselis**, Ghent University, Belgium

3.01.P-We050 Standardizing Healthcare Life Cycle Assessment: A Cross-Border Approach for Integrated Sustainability Decision-Making | **Iris Dirks**, Radboudumc, Netherlands

3.01.P-We051 Integrating Life Cycle Assessment and Health Technology Assessment: A Stakeholder-Informed Framework for Environmental Impact of Healthcare Pathways | **Natalia Cano**, University of Amsterdam (Helath Care Department), Netherlands

3.02.P - Exchanging Primary Supplier Data Along the Value Chain – Approaches, Learnings and Challenges for Supplier Engagement | Nicole Unger, Iris Kral

3.02.P-We052 A Collaborative Systematic Review of LCA data formats: Benefits, Limitations, and Silos | **Robin Dethienne**, Catholic University of Louvain (UCLouvain), Belgium

3.02.P-We053 Developing Regionalized Construction Life Cycle Inventories from Primary Supplier Data | **Davoud Heidari**, Construction Research Centre, National Research Council Canada (NRC), Canada

3.02.P-We054 Environmental Impacts of Bridal Fashion: A Supply Chain and Life Cycle Assessment Study | **Sophie Huysveld**, Ghent University, Belgium

3.03.P - From Decommissioning to Design: Integrating Circular Economy into LCA of Energy Systems | Fanran Meng, Jennifer Hawkin, Rebecca Bates

3.03.P-We055 When Does Methane Pyrolysis Become Competitive? A Sensitivity-Informed Life Cycle and Total Cost Assessment of Hydrogen Pathways | **Yuchen Zhang**, School of Chemical and Biomolecular Engineering, University of Sydney, Australia

3.03.P-We057 Environmental Life Cycle Assessment of Offshore Wind Power: Results from a Systematic Review | **Lotte Stremersch**, Ghent University, Belgium

3.03.P-We058 Environmentally Strategic Decommissioning of Gas-Cooled Nuclear Reactors Led by Life Cycle Assessment | **Jesse Farrell**, University of Manchester, United Kingdom

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3.05.P-We059 A Cradle-to-Grave LCA-Based Comparison of Traditional and Modular Data Centre Power Supply Units | **Annie Wyon**, Research Institutes of Sweden AB (RISE), Sweden

3.05.P-We060 Environmental Assessment of UHF RFID Tags: A Life Cycle Approach | **Afzal khan Peerukhan**, University of Liège, Belgium

3.05.P-We061 Greener PCB Production: The Potential of the Thickness Reduction on the Carbon Footprint | **Lara Eguren**, Fraunhofer IZM, Germany

3.05.P-We062 Life Cycle Assessment of Silicon Carbide Power Transistors From Two Alternative Production Routes | **Pedro Anchustegui**, Chalmers University of Technology, Sweden

3.06.P - From Science to Action: Advancing LCA for Consumer Transparency, Policy Integration, and Inclusive Decision-Making | Maria Rydberg, Luca Zampori, Camille Martin, Pascal Seel

3.06.P-We063 Aligning Modelling Choices with Study Goals in LCA of Recycling: Enhancing Interpretation and Decision-making | **Estefania Sanabria Garcia**, Ghent University, Belgium

3.06.P-We064 When Does LCA Give Reliable Guidance? Convergence and Decision Fragility in Life Cycle Assessment of Industrial Waste Upcycling | **Seidpooyan Ghafoori**, Aalborg University, Denmark

3.06.P-We065 Framing LCA results for PFAS-contaminated water treatment as net human health benefit

(NHHB) analysis | **Sabrina Altmeyer Mendes**, Chalmers University of Technology, Sweden

3.06.P-We066 Addressing Attributional-Consequential Inconsistencies in Circular Footprint Formula and Proposed Modifications for Improved Consistency – A packaging material case study | **Md Musharof Khan**, Natural Resources Institute Finland (Luke), Finland

3.06.P-We067 From Data Burden to Decision Value: Right-Sizing Primary Data Granularity in Food-Waste LCA | **Silvia Schütz**, University of Natural Resources and Life Sciences (BOKU), Austria

3.06.P-We069 User-centered Life Cycle Engineering Tool for Robust Decision Making in Development Processes | **Jana Husmann**, Fraunhofer Institute for Surface Engineering and Thin Films (IST), Germany

3.06.P-We070 Integrated Impact Assessment Approach for Safe and Sustainable by Design of Advanced Materials: Focus on economic dimension | **Arianna Livieri**, GreenDecision, Italy

3.06.P-We071 Linking LCA to Policy: PROMETHEE Based Prioritization of Bioeconomy Options in Central and Eastern Europe | **Gudrun Obersteiner**, University of Natural Resources and Life Sciences (BOKU), Austria

3.06.P-We072 Matching SSbD Framework and ESPR Digital Product Passport Requirements: the case study of Flooring Systems with Recycled Rubber Granulate | **Naiara Casagrande**, 3 Drivers – Engineering, Innovation and Environment; MARE - Marine and Environmental Sciences Centre, ARNET - Aquatic Research Network Associate Laboratory, NOVA School of Science and Technology, NOVA University Lisbon, Portugal

3.06.P-We074 Decoupling Plastic Packaging from Fossil Feedstocks for increasing European Sustainability and Resilience | **Alexandra Krestnikova**, Institute for

Chemical and Bioengineering, ETH Zurich, Switzerland

3.06.P-We075 Quantifying Packaging-Induced Product Losses in Life Cycle Assessment: A Risk-Based Modelling Framework | **Nathália Antoniazzi**, Circular Analytics TK GmbH, Austria

3.06.P-We076 Comparative Life Cycle Assessment of Packaging Materials for Relocation: Supporting Circular Economy Transitions Under the Packaging and Packaging Waste Regulation | **Haniyeh Hajatnia**, University of Bath, United Kingdom

3.06.P-We077 Circular Product Design: Mapping Regulations and Product Characteristics to Life Cycle Impacts | **Santiago Eduardo**, Bochum University of Applied Sciences, Germany

3.06.P-We078 Comparative Sustainability Assessment of Fish Boxes in Europe | **Camille Lernould**, RDC Environment, France

3.06.P-We079 Extended PEF-wise Dutch Environmental Food Database for 3000 Products | **Johannes Lijzen**, National Institute for Public Health and the Environment (RIVM), Netherlands

3.06.P-We080 Exploring the Environmental Impact of Dutch Food Consumption in Relation to the Planetary Boundaries | **Johannes Lijzen**, National Institute for Public Health and the Environment (RIVM), Netherlands

3.06.P-We081 Integrated Analysis of Environment, Nutrition, and Affordability for Building a Sustainable Individual Diet in Japan | **Takeo Ikeuchi**, Ritsumeikan University, Japan

3.06.P-We082 Applying Input Output (IO)-Models for Agricultural PCF Calculation – Potentials and Limitations | **Philipp von Gall**, Thünen Institute, Germany

3.06.P-We083 Is Wine the Fruit of a Sustainable Production? Environmental Impact Assessment of Belgian Vitiviniculture Before and After Agroecological Practices, Based on Primary Data | **Vicky Corbeels**, University of Antwerp, Belgium

3.06.P-We084 Shifting Protein Intake in Belgium: Potential Health and Environmental Impacts | **Claire Dénos**, Ghent University; Université Libre de Bruxelles; Sciensano, Belgium

3.06.P-We085 The Use of a Farm-level LCA Calculator for Small-scale Dairy Systems in the Cross-border Region of Spain and France | **Silvia Fernández González**, Beta Technological Centre (BETA), Universitat de Vic - Universitat Central de Catalunya (UVic-UCC), Spain

3.06.P-We086 Visualizing Biophysical Limits of Battery Production for Policy Integration | **Sophia Roy**, Montreal Polytechnic, Canada

3.06.P-We087 Cradle-to-Gate LCA of Carbon Nanotube Production: Hotspot Analysis and Low-Carbon Strategies | **Byung-Tae Lee**, Gwangju Institute of Science and Technology (GIST), Korea, Republic of

3.06.P-We088 A Dual-Economy LCA Framework for Allocation in Absolute Sustainability Assessment | **Xue Sun**, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland

3.06.P-We089 Decision Support for Circular Transitions in Remote Islands: Linking Local Specialties to Regional Resilience | **Seiyo Iwamoto**, Ritsumeikan University, Japan

3.06.P-We090 Assessing Sustainability in Metal Additive Manufacturing: A Decision-Support Tool | **Bruna Moura**, Faculty of Engineering, University of Porto, Portugal

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3.06.P-We092 Fulfilling Human Needs within Planetary Boundaries: A Review of Downscaling Global Environmental Budgets to Provisioning Systems | **Paulien Meese**, Ghent University, Belgium

3.06.P-We093 Life Cycle Approaches For Chemical Technology Selection: Enabling Informed Decision Making For Chemicals and Fuel Production Technologies | **Robert White**, Honeywell, United Kingdom

3.06.P-We094 Defining Net-Zero Buildings through Product-Level Life Cycle Strategies | **Ewa Katarzyna Lagodzka**, Aalborg University, Denmark

3.06.P-We095 Safe and Sustainable by Design (SSbD) Functionalized MXenes: Environmental Impacts Comparison through Life Cycle Assessment (LCA) | **Valeria Acevedo-García**, AIMEN, Spain

3.06.P-We096 Integrating Life Cycle Assessment and Life Cycle Costing for Cleaner Production in AOD Refining of Stainless Steel: A Scenario-Based Evaluation | **Rim Boulahya**, KU Leuven LRD, Belgium

3.06.P-We097 Guidelines for Social Life cycle Assessment of Hydrogen Valleys | **Tatiana D'Agostini**, European Commission - Joint Research Centre (JRC), Netherlands

3.06.P-We098 From CE Assessment to Best Practice: A Nano-Level Case Study of Data-Driven Circular Product Design | **Lara Baumanns**, BUW Bergische Universität Wuppertal, Institute for Technologies and Management of Digital Transformation, Germany



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