

As of February 27, 2026. The program is subject to change.

Session	Session code	No.	Paper ID	Title	Speaker
Circular economy	A-1	1	PROCIR-D-25-00154	Integrated Framework for Quantifying the Economic and Ecological Impacts of Circular Business Model Innovation	Marcel Fischer
Circular economy	A-1	2	PROCIR-D-25-00188	Multidimensional Circularity Assessment of Product-Service Systems	Max Werrel
Circular economy	A-1	3	PROCIR-D-25-00187	Identification of Social Key Performance Indicators for the Digital Product Passport for Products with Neodymium Magnets	Jennifer Fuchs
Circular economy	A-1	4	PROCIR-D-25-00180	Artificial Intelligence and Circular Economy: An Exploration of the Ecological Infosphere	Christian Plociennik
Circular economy	A-1	5	PROCIR-D-25-00178	Configurable Agile Digital Product Passports for Circular Businesses	Wouter Sterkens
Circular economy	A-2	1	PROCIR-D-25-00775	Extending The Business Model Canvas For Circular Business Models	Marcel Fischer
Circular economy	A-2	2	PROCIR-D-25-00749	A Regional Circular Production System for Reusable Wall Panels in the Norwegian Wood Industry	QIAOWEN ZHAI
Circular economy	A-2	3	PROCIR-D-25-00519	Reuse of Lithium-Ion Batteries from used Forklift Trucks – A study identifying the possibilities of reuse and potential applications of used lithium-ion batteries and contributing to a more circular economy	Erik Sundin
Circular economy	A-2	4	PROCIR-D-25-00513	Exploring the Consumer Acceptance of Circular Business Models Using LLM-Based Simulation	Yudai Tsurusaki
Circular economy	A-2	5	PROCIR-D-25-00484	Reshaping the electric and electronic equipment sector towards a circular economy: the PiCo2RAEE platform	Marco Marconi
Circular economy	A-2	6	PROCIR-D-25-00415	The Next Neighbor Problem of the Circular Economy – A Life Cycle Theoretic Perspective on Occurrence and Mitigation Strategies	Robert Mieke
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Circular economy	A-4	2	PROCIR-D-25-00875	Unlocking Circularity Potentials from LMT Batteries: A Material Flow Analysis and Scenario Forecast on Secondary Raw Materials for Europe	Franziska Maisel
Circular economy	A-4	3	PROCIR-D-25-00193	Material Flow Analysis of End-of-Life Vehicles and Contributions of AATF Policy toward a Circular Economy in Malaysia	Yuna Seo
Circular economy	A-4	4	PROCIR-D-25-00319	Stepwise procedure for efficient characterization of retired batteries towards second-life applications	Niraj Chauhan
Circular economy	A-4	5	PROCIR-D-25-00898	Repair or Replace? A Market-Based Analysis of Household Appliance Repair Viability in France and Belgium	Alex Bunodiére
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LCA	C-7	1	PROCIR-D-25-00324	A Tensor-based Predictive TEA-LCA Framework for Modular Disassembly and Remanufacturing of Clean Energy Magnets	Albin Prince John
LCA	C-7	2	PROCIR-D-25-00515	Life Cycle Assessment of Rack Servers with Circular Strategies	Ritvik Kumar
LCA	C-7	3	PROCIR-D-25-00879	Multi-source heterogeneous data fusion and real-time anomaly monitoring method for unmanned production lines of complex products	Chengran Jiang
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LCA	C-7	6	PROCIR-D-25-00143	Sustainable low-carbon metallurgy in Zimbabwe: A critical review on the potential of using self-reducing pellets for ironmaking.	Quinton Chamunorwa Kanhukamwe
LCA	C-8	1	PROCIR-D-25-00204	Identification and prioritization of key levers for sustainable mold manufacturing	Helen Baumert
LCA	C-8	2	PROCIR-D-25-00928	Climate Change Impact of Pedal Electric-Assisted Bike: The Cases of Barcelona and Munich	Emmanuel Effah
LCA	C-8	3	PROCIR-D-25-00897	A Life Cycle Perspective on Monofacial and Bifacial Photovoltaic Module Sustainability and Environmental Offsets	Massimiliano Mariani
LCA	C-8	4	PROCIR-D-25-00766	Circular Footprint Formula: Challenges and Opportunities in Assessing the Circularity of Post-Consumer Recycled Materials for Automotive Panels	Vineet Shailesh Shah
LCA	C-9	1	PROCIR-D-25-00450	Techno-Economic and Environmental Assessment of Industrial-Scale Fired Ammonia Cracking for Hydrogen Transportation	Sebastian Wodak
LCA	C-9	2	PROCIR-D-25-00806	Evaluating environmentally weighted recycling efficiency of a technology: discussion of methodology and application on a case-study	Andrea Margheri
LCA	C-9	3	PROCIR-D-25-00888	Sustainability metrics for the Factory-in-a-Box paradigm: informing early business case	Justyna Emilia Rybicka
LCA	C-9	4	PROCIR-D-25-00951	LYFE ² : A Lifecycle Analysis Framework for Environment & Economics in Aviation	Antonia Rahn
LCA	C-9	5	PROCIR-D-25-00811	Foundations for a Simplified Climate Change Assessment for Manufacturing SMEs in Germany	Maria Celia Briones Espinoza
LCA	C-9	6	PROCIR-D-25-00865	Environmental Impact Assessment of 3D-Printed Tyres Fabricated by Material Extrusion: The Potential of Modular Designs	Manuel Sardinha
LCA	C-10	1	PROCIR-D-25-00309	Does Circularity Reduce Climate Impact? A Component-Level Analysis for Electronic Products	Manuel Sonnenberg
LCA	C-10	2	PROCIR-D-25-00656	Component-Level Circularity Assessment: A Methodological Contribution for CE Decision Making in the Manufacturing Industry	Carolin Sophie Escherich
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LCA	C-10	5	PROCIR-D-25-01191	Data Stream Architecture for Scope 3 Hybrid Modelling Using a Product Lifecycle Lens	Victoria Oluchi Omeire
LCA	C-10	6	PROCIR-D-25-00318	Comparing Large Language Model Methodologies for Life Cycle Inventory Data Extraction	Kira Fischer
Advanced Recycling and Recovery Technologies	D-1	1	PROCIR-D-25-00138	Transforming E-Waste Into Strategic Resources: Techno-Economic Analysis of Gallium and By-products Recovery from LEDs via Bioleaching	Xiaohan Wu
Advanced Recycling and Recovery Technologies	D-1	2	PROCIR-D-25-00761	Recycling Carbon Fibre Fabrics from Composite Wastes: A Case Study on End-of-Life Bicycle Components	Di (Andy) He
Advanced Recycling and Recovery Technologies	D-1	3	PROCIR-D-25-00719	Comprehensive analysis of techniques for removing spot welded nickel strips from lithium-ion battery cells	Tom Machiels
Advanced Recycling and Recovery Technologies	D-1	4	PROCIR-D-25-00663	Rethinking Platinum Group Metals (PGMs) Recovery Pathways: A Comparative Life Cycle Assessment	Jingyi Li
Advanced Recycling and Recovery Technologies	D-1	5	PROCIR-D-25-00395	Systematic Optimization of the Induction Based Thermal Demagnetization Process for Rare Earth Magnet Recovery from PM Rotors	Roman Hahn
Advanced Recycling and Recovery Technologies	D-1	6	PROCIR-D-25-00387	Mechanical recycling of PET and PA blended textiles with elastane: Process optimization in pretreatment by improving pellet quality with variable binding agents on a laboratory scale	Sahra Magdalene Pogrzeba
Disassembly	D-2	1	PROCIR-D-25-00240	Structured Documentation and Evaluation of Manual Disassembly: A Cross-Platform Application for Assessing R-Paths and Automation Potential	Anwar Al Assadi
Disassembly	D-2	2	PROCIR-D-25-00918	Toward Circularity-Driven Product Design Across Varying Disassembly Automation Levels	Lucas Janisch
Disassembly	D-2	3	PROCIR-D-25-00770	Towards Automated Disassembly for Battery Removal of Robot Vacuum Cleaners	Dheeraj Singh
Disassembly	D-2	4	PROCIR-D-25-00695	Dissassembly and circularity assessment of power electronics: power converters for residential elevators	JOAN MANUEL FERNANDEZ
Disassembly	D-2	5	PROCIR-D-25-00662	A Regret-Based Scheduling Framework for Human-Robot Cooperative Demanufacturing Systems	Sander Teck
Disassembly	D-2	6	PROCIR-D-25-00618	A Priority-Rule-Based Approach for the Dynamic Control of Reassembly in Matrix-Remanufacturing Systems	Finn Bail
Disassembly	D-3	1	PROCIR-D-25-00436	Scalable Modeling of Destructive and Non-Destructive Disassembly with Extended Petri Nets for Disassembly Process Planning	Finn-Augustin Brunnenkant
Disassembly	D-3	2	PROCIR-D-25-00419	Screw Localization Accuracy in CT-Based Predictions for De-Manufacturing	Niels Jan Corne Griffioen
Disassembly	D-3	3	PROCIR-D-25-00343	Engineering design for disassembly: test of a time-based methodology and the LeanDFD software tool	Marco Marconi
Disassembly	D-3	4	PROCIR-D-25-00337	Evolution of the disassembly map towards a standardized and software-readable format for virtual product disassembly	Claudio Favi
Disassembly	D-3	5	PROCIR-D-25-00279	Projection-Based Augmented Reality to Support Human Intervention in Robotic Disassembly: A Case Study for Bike Batteries	Willem Mahey
Disassembly	D-3	6	PROCIR-D-25-00260	Gentle loosening for non-destructive disassembly of operationally seized threaded fasteners	Richard Bluelmel
Digital Product Passports for Life Cycle Engineering	D-4	1	PROCIR-D-25-00252	A demonstration workshop for the use of the DPP for SMEs	Timo Koering
Digital Product Passports for Life Cycle Engineering	D-4	2	PROCIR-D-25-00725	Enabling the Concept of an Integrated Product Data Model for Life Cycle Engineering by Digital Product Passports	Joanna Steiner
Digital Product Passports for Life Cycle Engineering	D-4	3	PROCIR-D-25-00703	Enhancing Traceability in Sustainable Manufacturing by Linking Digital Product Passports with Digital Process Passports	Ishaan Kaushal
Digital Product Passports for Life Cycle Engineering	D-4	4	PROCIR-D-25-00280	Digital Product Passport as a Digital Twin? Analyzing Conceptual Intersections and Deriving Design Elements	Helena Ebel
Digital Product Passports for Life Cycle Engineering	D-4	5	PROCIR-D-25-00804	Smart-Circularity Assessment for Digital Product Passports in the Textile-Exporting Countries of the Global South	Pratik Ganesh Dake
Digital Product Passports for Life Cycle Engineering	D-4	6	PROCIR-D-25-00642	A Conceptual Model to Assess the Environmental Impacts of Digital Product Passports	Lyu Zhang
Artificial Intelligence for Life Cycle Engineering	D-5	1	PROCIR-D-25-00245	Enhancing Digital Product Passports for the Circular Economy with Generative AI	Christiane Plociennik

Artificial Intelligence for Life Cycle Engineering	D-5	2	PROCIR-D-25-00328	Development of ontology based knowledge construction tool with large language model	Takehisa Nishida
Artificial Intelligence for Life Cycle Engineering	D-5	3	PROCIR-D-25-00290	Data-driven decision support and control for adaptive circular production of plastics by injection molding	Aleksandra Naumann
Artificial Intelligence for Life Cycle Engineering	D-5	4	PROCIR-D-25-00285	Case-Based Reasoning and Knowledge Graphs to Support the Pattern-Based Engineering of Resilient and Sustainable Production Networks	Christopher Thomas Dorneier
Artificial Intelligence for Life Cycle Engineering	D-5	5	PROCIR-D-25-00272	Knowledge extraction method for failure identification using multimodal generative AI	Takayuki Uchida
Artificial Intelligence for Life Cycle Engineering	D-5	6	PROCIR-D-25-00265	Automating life cycle inventory modelling with large language models	Evangelos Kallitsis
System-Level Modelling and Simulation for Life Cycle Engineering	D-8	1	PROCIR-D-25-00779	Roadmap for Decarbonizing Production in Emission-Intensive Industries: Considering Lean, Digital, Sustainable, and Green Technological Measures	Finn-Augustin Brunnenkant
System-Level Modelling and Simulation for Life Cycle Engineering	D-8	2	PROCIR-D-25-00361	A Hybrid Approach Combining Macroscopic Traffic and Life Cycle Simulations to Evaluate Environmental Loads of Regional Transportation Including Ridesharing	Hidekazu Murata
System-Level Modelling and Simulation for Life Cycle Engineering	D-8	3	PROCIR-D-25-00783	A Conceptual Multi-Level Framework For Designing And Assessing Business Models And Value Chains For The Circular Economy Combining Pattern-based Approaches And Hybrid Simulation	Christopher Thomas Dorneier
System-Level Modelling and Simulation for Life Cycle Engineering	D-8	4	PROCIR-D-25-00386	Simulation-Based Decision Support for Circular Spare Parts Management in the Commercial Vehicle Sector: The Case of High-Voltage Batteries	Marius Hermsen
Absolute Sustainability	D-9	1	PROCIR-D-25-00424	On Ambidexterity of Leadership and Organizational Design in the Context of Relative and Absolute Sustainability	Robert Miede
Absolute Sustainability	D-9	2	PROCIR-D-25-00302	Aligning Green Certifications with Planetary Boundaries	Sareh Shahrabifarahan
Absolute Sustainability	D-9	3	PROCIR-D-25-00841	Absolute Sustainable Product Engineering (ASPE) - A Methodological Framework for Engineering within Absolute Limits	Kristian Koenig
Absolute Sustainability	D-9	4	PROCIR-D-25-00837	Safe Operating Space (SoS) Allocation and Uncertainties: An Australian Perspective	Thomas Judah Speiser
Absolute Sustainability	D-9	5	PROCIR-D-25-00355	Framework for multi-dimensional absolute environmental sustainability and product criticality assessment of emerging battery technologies	Siavash Aghaei
Absolute Sustainability	D-9	6	PROCIR-D-25-00822	Towards Absolute Environmental Sustainability: Product Development within Planetary Boundaries	Gonçalo Cardeal
Organizational and Societal Dimensions of Life Cycle Engineering	D-10	1	PROCIR-D-25-00796	Evaluating UK ETS Effects and Life-Cycle Engineering Opportunities for Emissions-Intensive UK Listed Companies	Shoaib Sarfraz
Organizational and Societal Dimensions of Life Cycle Engineering	D-10	2	PROCIR-D-25-00767	Scan your Trash: Exploring Participatory Data Capture to enrich Object Detection Datasets for Post-Consumer Plastic Sorting	Natalie Basedow
Organizational and Societal Dimensions of Life Cycle Engineering	D-10	3	PROCIR-D-25-00727	Exploring Decision Rationalities of Project Managers Steering Sustainable Development	Sandra Naomi Morioka
Organizational and Societal Dimensions of Life Cycle Engineering	D-10	4	PROCIR-D-25-00760	A framework for equitable allocation of internal carbon pricing and GHG emissions to support firm-level and sectoral decarbonisation	Daren Zong Loong TAN
Organizational and Societal Dimensions of Life Cycle Engineering	D-10	5	PROCIR-D-25-00571	Towards a Reference Architecture Model for the Perpetual Innovative Product	Gabriel David Moser