Scientific Program Thursday, November 20th 2025

Plenary Session / Erzherzog Johann Auditorium
09:00 Opening and Welcome
09:40 Plenary Talk Composites from Recycled Carbon Fibers / David May, Faserinstitut Bremen e.V. (FIBRE) / University of Bremen
10:40 Panel Discussion Topic: "'Hazardous' carbon fibres to be banned from cars?!"

Session 1: Composite Manufacturing Technologies / Erzherzog Johann Auditorium
13:20 Potentials for Composites in the Automotive Sector / Yannick Blößl, SGL Composites GmbH
13:40 The First European Carbon Fiber Sheet Molding Compound Material Characterization Benchmark / Miro Duhovic, Leibniz-Institut für Verbundwerkstoffe GmbH
14:00 Minimum Material Parameter Set for Reliable VARI Filling Simulations / Christof Obertscheider, Fachhochschule Wiener Neustadt GmbH
14:20 Artificial Intelligence in Composite Manufacturing: A Technical Perspective / Stefan Neunkirchen, FH JOANNEUM
14:40 Determining the optimal RVE sizing for random-chopped fiber composites / John Finder, Technische Universität Braunschweig

Session 2: Biobased Composites with Advanced Properties / HS Raiffeisen
13:20 Bio-based plastics in composite technology – opportunities, motivation and limits from an industry perspective/ Irmgard Bergmann, ISOVOLTA GROUP
13:40 Towards sustainable curing for high-performance epoxy systems: polythiol-based hardeners and bio-based thermolatent catalysts / Ilaria Cicco, TUL
14:00 Biobased epoxy resins with improved thermomechanical properties for high temperature applications / Anna Baaba Jacobs, TUL
14:20 Transitioning Bio-Based Composites into Functional Circular Solutions: Fast-Curing, Repairable, and Recyclable Systems / Bharath Ravindran, TUL
14:40 Eggshell Fillers and Their Effect on Curing in Fully Bio-Based Epoxy Systems / Kamil Novotny, TUL

Session 3: Characterization, Sensing and Testing / Erzherzog Johann Auditorium
16:00 Transverse compressibility of fiber-based reinforcing materials / Marcel Bender, Airbus Defence and Space
16:20 Characterization of Fluid Uptake and Swelling Behavior of Natural Fibres / Hannah Rabe, TUL
16:40 Real-Time Cure Monitoring of Bio-based Resin Composites / Günter Wuzella, Kompetenzzentrum Holz GmbH
17:00 Towpreg Testing at Cryo Temperatures / Gabriel Eduardo Rojas Valenzuela, Technical University of Munic

Session 4: Technical Advances in Fiber-Reinforced Composites — Materials, Performance and Design / HS Raiffeisen
16:00 Preparation and Properties of High-Performance Vitrimer Composites / Daniel F. Schmidt, Luxembourg Institute of Science and Technology (LIST)
16:20 Development of Lightweight Pressure Vessels for Cryogenic Hydrogen / Tobias Dickhut, Universität der Bundeswehr München
16:40 Validation of a recycling loop in the automotive sector: From hydrogen tank to door panel based on recycling Elium and carbon fibers / Boris Duchamp, Institut de Recherche Technologique – Matériaux, Métallurgie et Procédés
17:00 Considerations and challenges of using recycled materials in the fatigue life design of short-fiber-reinforced parts / Dario Kaylani, PCCL/ TUL

Sponsor & Exhibitor Session / Erzherzog Johann Auditorium
17:15 Epoxy-Resin: From the Rheology of the Uncured Resin to the DMA of the Cured Component / Matthias Walluch, Anton Paar Austria GmbH
17:30 FT-IR spectroscopy for polymer analysis – from QC to basic research / Cosima Koch, Bruker
17:45 tbd / Christian Motzelt, Netzsch
18:00 Thermoanalysis in minutes / Daniel Treffer, MeltPrep
18:15 Basalt reinforced composites fot the construction industry / Wolfgang Fiel, Fiber Elements
18:30 Carbon cycle one of the growth factors for the plastics industry! / Harald Bleier, Österreichischer Carbon Cycle Circle

Scientific Program Friday, November 21st 2025

5: Life Cycle Assessment / Erzherzog Johann Auditorium

09:00 Life cycle analysis, a systemic approach / Susanne Roßkogler, Technical University of Leoben
09:20 On the usefulness of company-specific information for LCI improvement / Paul Domberger, Technical University of Leoben, Anita Hochreiter, Atomic Austria GmbH
09:40 Assessing sustainability of flax fibres for reinforcement in composites using LCA / Nilmini Dissanayake, University of Cambridge
10:00 Carbon fibre-reinforced plastics from an environmental life cycle perspective shedding some light on the dark / Stefan Albrecht, Fraunhofer-Institut für Bauphysik IBP

Session 7: Innovations and Applications of Composites / Erzherzog Johann Auditorium

11:20 Composites for Frequency Applications / Patrick Hergan, 4a manufacturing GmbH
11:40 Innovations in Prepreg Manufacturing and Processing: Trends and Technologies / Moritz Salzmann, Syensqo Östringen
12:00 Thermoplastic Composites – The jack of all trades? / Stephan Becker, FACC Operations GmbH

12:20 Awards
Erzherzog Johann Auditorium

12:40 Closing & Farewell
Erzherzog Johann Auditorium

13:00 Lab Tours at ZKT & PCCL
Meeting Point Reception Desk Erzherzog Johann Trakt GF

Session 6: Future Trends in Polymer Technology / HS Raiffeisen

09:00 Advancing Epoxy-Anhydride Vitrimers: High Performance, Recyclability, and Industrial Viability / Matthias Mayer-Kriehuber, Polymer Comptence Center Leoben GmbH / Technical University of Leoben
09:20 Recycling End-of-Life Skis: Challenges and Innovations in Composite Material Recovery / Christine Bandl, Technical University of Leoben
09:40 Debonding on-demand: selective disassembly of adhesive joints / Milena Gleirscher, Polymer Comptence Center Leoben GmbH / Technical University of Leoben
10:00 Biodegradable Biopolyester/Rubber Blends – Game Changers in the LCA of Rubber Products? / Franz Stelzer, Anita Emmerstorfer-Augustin, Carina Frank, TU Graz

Session 8: From Processing to Failure: Virtual Strategies for Composite Materials / HS Raiffeisen

11:20 Modelling ultrafast laser drilling: Relevant physics and available numerical approaches / Lluís De Miguel Blasco, CIMNEStructural Mechanics Group
11:40 Limitations of Standard FEA in Composite PCB Pressing: Towards a Hybrid Simulation Strategy / Christian Schipfer, Polymer Comptence Center Leoben GmbH
12:00 One step closer to reliable failure prediction in composites understanding the interaction between matrix cracking and delamination / Vasco Daniel CASTRO PIRES, Technical University of Leoben