Preliminary program

Wednesday, Nov. 11, 2026	
08:30	Welcome & Registration
	Opening Day 1
09:00	**Welcome by the organizer** Prof. Dr. Matthias Hackert-Oschätzchen (Otto von Guericke University Magdeburg)
09:10	**Greetings from the Rector** Prof. Dr. Jens Strackeljan (Otto von Guericke University Magdeburg)
09:30	**Welcome message from the International Society of Electrochemistry** Dr. Tanja Vidakovic-Koch (Max Planck Institute for Dynamics of Complex Technical Systems)
09:40	**Keynote: ECM of Cemented Carbides – 100 years: From the beginning to the solution** Dr. Michael Schneider (Fraunhofer IKTS)
10:15	Tea and Coffee Break
	Session: Fundamentals + Materials I Chair: Dr. Michael Schneider (Fraunhofer IKTS)
10:45	**Influence of electrical conductivity on the ECM of solid-state sintered SiC** Lenka Šimůnková (Dresden University of Technology)
11:05	**Evaluation of processing parameters for Jet-ECM of solid-state sintered SiC** André Martin (Chemnitz University of Technology)
11:25	**Simulation of temperature distribution during the solid-state experiments of sintered SiC** Igor Danilov (Chemnitz University of Technology)
11:45	**Machining behaviour of Nb-based cermet during bipolar-pulsed electrochemical machining** Muhammad Hazak Arshad (KU Leuven)
12:05	Conference photo
12:10	Lunch

	Session: Fundamentals + Materials II Chair: Prof. Dr. Krishna Kumar Saxena (KU Leuven)
13:10	**Experimental investigations on machinability of TiCN-based cermet with electrochemical machining (ECM) and hybrid Laser-ECM** Vishesh Dharaiya (KU Leuven)
13:30	**Postprocessing and oxide layer removal of Nitinol wire by electrochemical machining** Matthias Zeiner (Saarland University)
13:50	**Investigating electrochemical jet machining (EJM) for polishing CoCr alloy in pH-neutral deep eutectic solvent (DES) electrolyte** Himanshu Sharma (KU Leuven)
14:10	Tea and Coffee Break
	Session: Technologies I Chair: Prof. Dr. Dirk Bähre (Saarland University)
14:40	**Alternative process chain for the prototype manufacturing of tools in PECM (Rapid tooling, RT-PECM)** Thomas Hall (Saarland University)
15:00	**Electrochemical additive manufacturing in liquid electrolytes: from fundamental limitations to nanoscale resolution** Dmitry Momotenko (Carl von Ossietzky Universität Oldenburg)
15:20	**Investigation of the influence of the initial working gap on the removal depth–time characteristic in Jet Electrochemical Machining** Lars Berg (Otto von Guericke University Magdeburg)
15:40	**A Study of the influence of the pulse width on the lateral gap in PECM** Richard Petermann (Otto von Guericke University Magdeburg)
16:10	Announcement Evening Event
16:15	Manufacturing Technology Lab Tour
17:30	End of Day 1
18:30	Conference Dinner in the Festung Mark in Magdeburg

Thursday, Nov. 12, 2026	
	Opening Day 2
	Session: Technologies II Chair: Prof. Dr. Andreas Schubert (Chemnitz University of Technology)
09:00	**Evolution of Convex Structures by Counter-Rotating Electrochemical Machining** Dadi Sri Satya Omkar (Birla Institute of Technology & Science)
09:20	**Electrochemical machining of slots using rotating tool electrode** Grzegorz Skrabalak (Krakow Institute of Technology)
09:40	**Electrochemical grooving of tubes** Grzegorz Skrabalak (Krakow Institute of Technology)
10:00	**Multi-Parameter Experimental Investigation of Burr Area Behaviour and Mass Removal Behaviour in Electrochemical Machining** Enes Furkan Sevinç (Doğu Pres R&D Center)
10:30	Tea and Coffee Break
	Session: Process Modeling, Monitoring + Control Chair: Prof. Dr. Johanna Waimann (Ruhr University Bochum)
11:00	**Phase field modeling of the anodic dissolution process in electrochemical machining** Annika Schmidt (Ruhr University Bochum)
11:20	**Transient Simulation for Explainable Data-Driven Current Signal Analysis in Pulsed Electrochemical Machining** Elio Tchoupe Sambou (RWTH Aachen University)
11:40	**Apparatus for a Wire ECM Process based on Jump Flushing** Owoh Marcus (Pforzheim University)
12:00	Lunch

	Session: Electropolishing and Plasma Electrolytic Polishing I Chair: Prof. Dr. Henning Zeidler (Technische Universität Bergakademie Freiberg)
13:00	**Design and Validation of a Controlled-Flow Electropolishing Setup for Precision Manufacturing of Additively Manufactured 316L Tubes** Sergej Dubinin (Brandenburg University of Technology)
13:20	**Analysis of the surface structures of PeP-treated metallic materials** Hans-Peter Schulze (Leukhardt Schaltanlagen Systemtechnik Magdeburg)
13:40	**Process window of plasma electrolytic polishing of stainless steel AISI 304** Joško Valentinčič (University of Ljubljana)
14:00	**Theoretical analysis for the formation of vapor gas envelope in plasma electrolytic polishing process** Sushil Kumar (Indian Institute of Technology Kanpur)
14:20	Tea and Coffee Break
	Session: Plasma Electrolytic Polishing II Chair: Prof. Dr. Joško Valentinčič (University of Ljubljana)
14:50	**Effect of Applied Voltage on Plasma Electrolytic Polishing of Stainless-Steel Surfaces** Toni Böttger (Technische Universität Bergakademie Freiberg)
15:10	**Investigation and optimization of post-processing procedures to improve the quality of additively manufactured components using PBF-LB/M** Anton Becher (Technische Universität Bergakademie Freiberg)
15:30	**Particle Blasting as a Key Intermediate Step for Residual Stress Relief and Surface Improvement in PBF-LB/M Components** Neel Kamal Gupta (Technische Universität Bergakademie Freiberg)
15:50	**Continuous Plasma-Electrolytic / Polishing of NiTi-Wires** Falko Böttger-Hiller (AMtopus GmbH & Co. KG)
16:10	Announcement INSECT 2027
16:20	Closing Remarks INSECT 2026
16:25	End of Day 2