

UGM 2025 Vienna, Austria

Scientific Program

Monday, October 6, 2025 Training – Ballroom (ground floor)		
9:00 – 17:00	Hands-on MedeA software training	
18:30 – 21:00	Conference reception	
Tuesday, October 7, 2025 All Technical Sessions – Ballroom (ground floor)		
9:00 – 9:05	Erich Wimmer, Introductory Remarks and Session Chair	
9:05 – 9:50	Ansgar Schäfer, BASF, Germany: Quantum Chemistry and Molecular Modeling at BASF	
9:50 – 10:35	Adrian Sutton FRS, Imperial College London, UK: The Ductile-brittle Transition in Metals	
10:35 – 11:00	Coffee break	
Session Chair: David Reith		
11:00-11:45	Ivo Koutsaroff , Akoustis Technologies, USA: <i>Ab-initio Modeling of Wurtzite AlBScN and Characterization of AlBScN Piezoelectric Thin Film Surface Acoustic Wave Devices Covering 4-8 GHz</i>	
11:45 – 13:30	Group Photo and Lunch	
Session Chair: Volker Eyert		
13:30 – 14:15	Georg Kresse, University of Vienna and VASP Software GmbH: Auxiliary Field Quantum Monte Carlo: Recent Advances and Solids	
14:15 – 15:00	Ralf Drautz, Ruhr-University Bochum, Germany, Foundational Interatomic Potentials with GRACE	
15:00 – 15:30	Coffee break	
Session Chair: Alexander Mavromaras		
15:30 – 16:00	Kristin Willis and Olivier Wagnières, SICPA, Switzerland: Accelerating Security Innovation through Materials Simulations at SICPA	



16:00 – 16:30	Arthur France-Lanord , University of Paris, Sorbonne: <i>Kinetics and Thermodynamics of Transformations Using Machine Learning</i>	
17:15	Bus to the conference dinner	
18:00 – 22:00	UGM Reception and Dinner	
Wednesday, October 8, 2025 All Technical Sessions – Ballroom (ground floor)		
Session Chair: René Windiks		
9:00 – 9:30	Michele Kotiuga , Materials Design, <i>Multiscale Modeling: A Study of Zirconium alloys in Nuclear Reactors</i>	
9:30 – 10:00	Donald Hlungwani , University of Limpopo, South Africa, Evaluation of Promising Solid Electrolyte and Cathode Materials for All-Solid-State-Lithium-Ion Batteries	
10:00 – 10:30:	Marianna Yiannourakou , Materials Design: High-Throughput Molecular Simulations for Gas Sorption in Polymers: Automated Workflows for Industrial Material Design	
10:30 – 10:45	Coffee break	
Session Chair: Garrett Tow		
10:45 – 11:15	Leonid Kahle and Mikael Christensen , Materials Design: <i>Modeling Interfaces and Microstructures with MedeA</i>	
11:15 – 11:45	Volker Eyert and Jörg-Rüdiger Hill , Materials Design: Generation and Application of Machine-Learned Potentials with MedeA	
11:45 – 12:00	Clive Freeman, Materials Design: Concluding Remarks	
12:00 – 14:00	Lunch	
14:00 – 17:00	Informal Discussions between MD and Customers	
17:00	Adjourn	