

TAming COmplexity in Materials Modeling (TACO) 2nd Annual PhD Workshop

Date: February 12–15, 2023

Place: JUFA Hotel, Coburgstraße 253, 8970 Schladming

Sunday, February 12

08:00 – 12:00	Bus transfer from Vienna (Wiedner Hauptstr./Resselg.) to Schladming
12:00 – 13:00	Lunch, Check-in
13:00 - 16:00	Outdoor discussions

Chair: Thomas Ruh (P01)

16:00 – 16:20	Ulrike Diebold, TU Wien (P01) Welcome address
16:20 – 17:00	Pavel Jelinek, Palacký University (invited) On-Surface Chemistry: What Makes it Special?
17:00 – 17:30	Bernhard Schmiedmayer, University of Vienna (P03) Machine Learning Tensorial Quantities: The Infrared Spectrum
17:30 – 17:50	Break
17:50 – 18:30	Gerhard Mestl, Clariant (invited) Successful Joint Industry-Academia Development of the new, innovative EDHOXTM process and catalyst by Linde and Clariant
19:00 – 20:00	Dinner
20:00 – 20:15	Poster Speed Talks (chair: Stefan Uttenthaler, P01)
20:15 – open-end	Poster session

Monday, February 13

08:00 – 08:30	Breakfast
08:30 - 12:00	Outdoor discussions
12:00 – 13:00	Lunch
13:00 – 15:00	Outdoor discussions



Chair: Erik Rheinfrank (P02)

15:00 – 15:40	Lutz Hammer, FAU Erlangen-Nürnberg (invited) Tellurium Structures on Transition Metal Surfaces — Challenges for and Insights from LEED-IV
15:40 – 16:10	Alexander Imre, TU Wien (P02) Accessible LEED-I(V): The Vienna Package for TensErLEED
16:10 – 16:40	Marco Corrias, University of Vienna (P07) Total Variation Denoising and Microscopy Image Analysis
16:40 – 17:00	Break

Chair: Thomas Haunold (P08)

17:00 – 17:40	Jennifer Strunk, LIKAT Rostock (invited) Photocatalysis between High-Purity and Applied Reaction Conditions: Understanding Carbon Dioxide Reduction on the Molecular Level
17:40 – 18:10	Parinya Tangpakonsab, TU Wien (P08) Copper Oxide Catalyst for the Preferential Oxidation of Carbon Monoxide: Experiment and Modeling
18:10 – 18:40	Alberto Tampieri, TU Wien (P10) Nanocrystalline Spinel Oxides and their Use as Catalysts in the Water Gas-Shift Reaction
19:00 – 20:00	Dinner
20:00 – open-end	Poster session

Tuesday, February 14

08:00 - 08:30	Breakfast
08:30 - 12:00	Outdoor discussions
12:00 – 13:00	Lunch
13:00 – 15:00	Outdoor discussions



Chair: Sebastian Falkner (P12)

15:00 – 15:40	Barbara Lechner, TU Munich (invited) A Microscopic View on Nanoscale Structural Dynamics of Oxide- Supported Clusters
15:40 – 16:10	Moritz Eder, TU Wien (P04) Hematite(012) – An Alternative, Water-Stable, Complex Oxide Surface
16:10 – 16:40	Moritz Zelenka, University of Vienna (P11) A Peek at the Spinel-Water Interfacial Structure
16:40 – 17:00	Break
Chair: Pablo Montero de Hijes (P12)	

17:00 – 17:40	Livia Bartok-Partay, University of Warwick (invited) Nested Sampling What Can We Learn about Interatomic Potentials?
17:40 – 18:10	Ralf Wanzenböck, TU Wien (P09) Accelerated Search for Surface Reconstructions through Chemical and Structural Space
18:10 – 18:40	Salvatore Romano, University of Vienna (P12) Neural Network Potential for the Magnetite-Water Interface
19:00 – 20:00	Dinner
20:00 – 21:00 20:00 – open-end	Executive Board meeting (PI, Co-PIs & student representatives) Poster Session

Wednesday, February 15

07:00 – 07:45	Breakfast
8:00 – ca 12:00	Bus transfer to Vienna