

6th Early Career Researchers Day

24 October 2023, Convention Centre, 2a, RUB



Programme

RUB

8:30-9:00	Registration
9:00-9:10	Ralf Drautz, Tina Boes, RUB Welcome
	Focus Group <i>Microstructure and mechanical properties</i>
9:10-9:30	Leslie Stübbe, RUB, Materials Technology The abrasive wear resistance of a case-hardened steel
9:30-9:50	Nele Kretzer, RUB, Hybrid Additive Manufacturing Influence of process parameters on the chemical composition of AlSi10Mg components during powder bed-based electron beam melting
9:50-10:10	Sahir Butt, RUB, Structural Mechanics Computational fracture and fragmentation modeling using peridynamics: Application to hard rock excavation
10:10-10:30	Coffee break
	Focus Group <i>Thermodynamic and kinetics of materials</i>
10:30-10:50	Vanessa Eisleben, RUB, Materials Technology Design of Ni-free Ti-based sma using Thermo-Calc
10:50-11:10	Lan-Tien Hsu, RUB, Scale-Bridging Simulation of Functional Composites How can the electrocaloric effect be tuned by an electric field?
11:10-11:30	Antoine Loew, RUB, Artificial Intelligence for Integrated Material Science Neural network interatomic potential to predict structure properties
11:30-11:40	Break - Group picture
11:40-11:50	Tina Boes, Start-up Coach, Incubator Materials, RUB Science is key for innovation - how to get it on track?
11:50-12:20	Nicolas Wöhrle, Physicist and Science Communicator, Universität Duisburg-Essen Science FACTion - Science communication by researchers
12:20-13:50	Lunch break
	Focus Group <i>Interface dominated materials properties and processes</i>
13:50-14:10	Ojong Tabot, RUB, Inorganic Chemistry I Electrochemical reduction of lignin-type aromatic-carbonyls to alcohols
14:10-14:30	Mario Corbalán Gutiérrez, RUB, Inorganic Chemistry I Novel electrode structures for CO ₂ -converting bio-electrochemical systems
14:30-14:50	Jorit Obenlünenschloß, RUB, Inorganic Materials Chemistry Group 6 TMDCs: MoS ₂ and WS ₂ as highly active HER catalysts, new MOCVD routes
14:50-15:10	Coffee break
	Focus Group <i>Thin films, micro- & nanosystems</i>
15:10-15:30	Malte Becher, RUB, Applied Laser Technologies Laser-based modification of ALD-grown 2D-transition metal dichalcogenides
15:30-15:50	Jean-Pierre Glauber, RUB, Inorganic Materials Chemistry Catalytic performance of CVD-grown Zn thin films for Nitrogen reduction reaction
15:50-16:10	Vladimir Lykov, RUB, Physical Chemistry 1 On-surface CO ₂ capturing by electron-rich phosphines
16:10-17:30	Postersession with snacks and beverages

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