

**Program of the joint workshop of the DMG sections  
„Angewandte Mineralogie“ und „Kristallographie“  
26.03. – 28.03.2025 in Bad Windsheim**

<b>Wednesday (26.03)</b>	<b>Speaker</b>		<b>Title</b>
<b>16:30</b>	Michael Fischer, Daniel Vollprecht, Claudia Weidenthaler		Welcome/Introduction
<b>Plenary lecture</b>			
<b>17:00 – 18:00</b>	Evening lecture	Frank Schilling, Karlsruher Institut für Technologie (KIT)	Georesearch for a successful energy supply - the perspective of a mineralogist
<b>18:30</b>	<b>Dinner</b>		

<b>Thursday (27.03.)</b>	<b>Speaker</b>		<b>Title</b>
<b>Energy research I</b>			
<b>9:30 – 9:50</b>	Lecture 1	Susan Schorr Helmholtz-Zentrum Berlin für Materialien und Energie	Negative thermal expansion behavior of adamantine-type chalcogenides
<b>9:50 – 10:10</b>	Lecture 2	Sarah Schwiddessen Helmholtz-Zentrum Berlin für Materialien und Energie	New defect adamantine chalcogenides for solar energy conversion
<b>Energy research II</b>			
<b>10:10 – 10:30</b>	Lecture 3	Ana Palacios Saura Helmholtz-Zentrum Berlin für Materialien und Energie	Ageing of MAPbI <sub>3</sub> precursor solutions: an ongoing 3-year study with SAXS
<b>10:30 - 11:00</b>	<b>Coffee break</b>		
<b>Energy research III</b>			
<b>11:00 – 11:20</b>	Lecture 4	Henrik Prell Helmholtz-Zentrum Berlin für Materialien und Energie	Kesterite photovoltaics – Extrinsic doping strategies in monograin solar cells
<b>11:20 – 11:40</b>	Lecture 5	Christos Sidiropoulos Max-Planck-Institut für Kohlenforschung	Investigating the influence of strontium promoters on NH <sub>3</sub> decomposition catalysts from a crystallographic standpoint
<b>11:40 – 12:00</b>	Lecture 6	Cornelius Gantz ITEL-Deutsches Lithiuminstitut GmbH	Lithium-Phase Identification and Local Chemical and Microstructural Analysis in an Industrial Lithium-Ion-Battery Recycling Slag
<b>12:00 – 12:10</b>	Lecture 7	Sabyasachi Chattopadhyay Institute of Applied Geosciences (AGW), (KIT)	Composition of biomass ashes and slags: Insights from phase-composition and mineralogy
<b>12:00 - 14:00</b>	<b>Lunch break</b>		

Circular economy	Speaker		Title
14:00– 14:20	Lecture 8	Philipp Ingold University Bern	Weathering of Swiss MSWI bottom ash: A multi-stage process
14:20 – 14:40	Lecture 9	Philipp Hänggi University Bern	The use of waste incineration residues in cement and concrete manufacturing: Characterization of heavy metal binding forms in MSWI bottom ashes.
14:40 – 15:00	Lecture 10	Kerstin Hauke Forschungsgemeinschaft Feuerfest e. V.	Smart Research Strategies to Boost Secondary Raw Material Use in Refractories
<b>15:00 - 15:30</b>	<b>Coffee break</b>		
<b>Building materials</b>			
15:30 – 15:50	Lecture 11	Tillmann Schramm Geozentrum Nordbayern, Erlangen	Changes in early Calcium Aluminate Cement hydration by addition of silica fume and sodium silicate
15:50 – 16:10	Lecture 12	Florian Rafalski Geozentrum Nordbayern, Erlangen	CO <sub>2</sub> -neutral Mg-binders based on olivine
16:30 – 16:50	Lecture 13	Saskia Franke Geozentrum Nordbayern, Erlangen	Carbonation of Mg(OH) <sub>2</sub>
16:50 – 17:10	Lecture 14	Louisa Panjiyar University Halle-Wittenberg	Corrosion studies of canister materials for the storage of high level nuclear waste @MLU
17:15 – 18:00	Plenary discussion: Michael Fischer, Daniel Vollprecht, Claudia Weidenthaler		
<b>19:00 - ...</b>	<b>Dinner</b>		

<b>Friday (28.03.)</b>			
Methods	Speaker		Title
9:30 – 9:50	Lecture 15	Michael Fischer University Bremen	Studying adsorption in (geo)materials with Monte Carlo simulations
9:50 – 10:10	Lecture 16	Johannes Kehren Hochschule Koblenz	Lessons Learned - Challenges and chances of in situ Raman spectroscopy.
<b>10:10 – 10:40</b>	<b>Coffee Break</b>		
10:40 – 11:00	Lecture 17	Claudia Weidenthaler Max-Planck-Institut für Kohlenforschung	Mechanochemical synthesis of inorganic materials
11:00 – 11:20	Lecture 18	Lea Julie Ruckes Fraunhofer Institut IBP	The potential of mechanochemical activated phyllosilicates as SCM
11:20 – 11:30	Lecture 19	Karolina Przydzial Hochschule Koblenz	XRD analysis of primary and secondary andalusite
11:30 – 11:50	Lecture 20	Lucas Martin TU Freiberg	Shock wave synthesis of diamond and the influence of seed crystals
11:50 – 12:00		Michael Fischer, Daniel Vollprecht, Claudia Weidenthaler	Summary and closing
<b>12:00</b>	<b>Lunch</b>		
<b>The workshop will end after lunch.</b>			