



Preliminary Scientific Program

Invited Lectures: 35 min + 10 min Discussion
Lectures: 20 min + 5 min Discussion
Poster: A0

Color Code
Process Safety
Biology, Biophysical Chemistry, Biothermodynamics and Biomolecular Interactions
Efficiency in Energy Transformations
Environmental Science and Macromolecules
Inorganic Chemistry
Invited Lectures

Wednesday (11.06.2025)

Slot	Hall A	Hall B
12:00 - 13:00	Registration	
13:00 - 13:10	Welcome Address: Thomas Maskow	
	Process Safety; Chair Steffen Neuenfeld	Biology; Chair Jonathan Rodenfels
13:10 - 13:55	IL: Sven Wagner: Use of Calorimetry Hazard Assessment	
13:55 - 14:20	Svenja Albus: Decomposition Kinetics of Peroxide Cocktails Applying High-Pressure Calorimetry	Johannes Lerchner: Thermogenesis in Drosophila Flight Muscles via Chip Calorimetry
14:20 - 14:45	Jana Sartorius: Continuous Heat Accumulation Pressure Vessel Test (Conti-DWS)	Mersiha Hasic: Exploring Aerobic and Anaerobic Contributions to Thermogenesis in Brown Adipose Tissue
14:45 - 15:45	Coffee Break, Posters, Exhibition FOYER	
	Macromolecules; Chair Stefan Sarge	Biology; Chair Dominique Singer
15:45 - 16:30	IL: Jonathan Rodenfels: The Energetics of Life	
16:30 - 16:55	René Sattler: New Insights on Crystal Growth and Polymorphic States in Long Chain Polyamide 10.12	Karim Fahmy: Retrieving Pathway-Specific Substrate Utilization Rates from Microbial Heat Flow Curves
16:55 - 17:20	Rico Siewert: Utilization of Lignin: Thermochemical Effects of Depolymerization	Marcel Lorenz: Energetic Properties of Soil organic matter: Experim. Determ. & Methodological challenges
19:00 - 23:00	Informal meeting on a self-pay basis im Cafe Madrid (https://www.cafe-madrid.de/ ; Klostergasse 3-5, 04109 Leipzig)	

Thursday (12.06.2025)

8:30 - 9:00	Welcome coffee FOYER	
	Process Safety; Chair Markus Gödde	Biothermodynamics and Biomolecular Interactions; Chair Thomas Maskow
9:00 - 9:45	IL: Tim Tichter: Thermal Investigation on Battery Safety	
9:45 - 10:10	Uwe Hess: Assessing Reactive Hazards: What is the Right Tool?	Wojciech Rogóż: Calorimetric/Spectroscopic Analysis of Methylation in Ligand-Protein Interactions
10:10 - 10:35	Alexander Sedykh: Thermal Properties of LPSCI Solid Electrolytes	Maria Hörnke: Lipid Phase Transitions in Membrane Biophysics
10:35 - 11:00	Julian Sartorius: Determ. of SADT of Auto-Catalytic Substances	Olivier Braissant: Assessing Antimicrobial Materials & Coatings via Isothermal Calorimetry
11:00 - 11:45	Coffee Break, Posters, Exhibition FOYER	
11:00 - 11:45	Meeting of the GEFTA Members	
11:45 - 12:45	Lunch FOYER	
	Macromolecules; Chair Dirk Walter	Inorganic Chemistry; Chair Maren Lepple
12:45 - 13:30	IL: Maren Lepple: Probing the Thermal Secrets of Ceramics Used for Energy Conversion and Storage	
13:30 - 13:55	Angela Hammer: Thermal Analysis Techniques for the Recycling of Polymers	Mario Kriegel: Heat Capacities of Several Ordered Intermetallic Phases in the System Al–Fe–Mn–Ni–Ti
13:55 - 14:20	Noelia Fernandez Merayo: ITC for Monitoring Enzymatic Depolymerization of PET	Konrad Burkmann: Thermochemistry of RE7P3O18 Rare Earth Oxyphosphates
14:20 - 15:00	Coffee break, Poster, Exhibition FOYER	
	Efficiency in Energy Transformations; Chair Florian Mertens	Biology; Chair Olivier Braissant
15:00 -15:25	Philipp Finster: Determ. of Thermophysical Properties of Battery Electrolytes Using DSC	Tilman Linke: Photo-CR: Quantifying Energy Conversion in Light-Induced Bio/Chem Reactions
15:25 -15:50	Alexander Rowland Lowe: HP-DSC to Study Liquid Intrusion/Extrusion in Hydrophobic Porous Material	Kathrin Schmeißer: Quantifying the Energetics of Building and Maintaining an Organism
15:50 - 16:15	Hendrik Löchte: T-Dependence of Molecular Accumulation on Porous Solids via Adsorption Calorimetry	Shiyue Yang: Integrated CO ₂ Sensing in IMC for Microbial Heat & Mineralization in Soil
16:15 - 16:40		Olivier Savard: What can Images Bring to Thermal Analysis?
17:20 - 18:30	Guided City Tour (Start: Katharinen Straße 8; End: Auerbachs Keller)	
18:30 - 23:00	Conference Dinner Auerbachs Keller (Grimmaische Str. 2-4, 04109 Leipzig)	

Friday (13.06.2025)

8:30 - 9:00	Welcome coffee FOYER	
	Biophysical Chemistry; Chair Heike Bunjes	
9:00 - 9:25	Katharina Beck: Temperature-Dependent Lipid Order in Lipid Nanoparticles: Insights from Fluorescence Spectroscopy	
9:25 - 9:50	Benjamin Korth: Microbial Electrochemical Peltier Heat & Entropy Export	
9:50 - 10:15	Marco Coletti: Ultra Sensitive DSC Technologies - Thermodynamic Investigations and HTS of Protein Stability	
10:15 - 11:00	Coffee Break, Posters	
11:00 - 11:45	IL: Ralf Steuer: Computational Approaches to Microbial Energetics, Metabolism, and Growth	
11:45 - 12:00	Michael Feist/Johannes Lerchner: Farwell Address and Outlook 2027	