



CONTACT

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VENUE

University of Wuppertal
Gaußstraße 20
HS32/33
42119 Wuppertal

ORGANIZING COMMITTEE:

Prof. Dr. Slabon, Department of Chemistry & Biology, Inorganic Chemistry
Prof. Dr. Schmülling, Institute of Electric Mobility and Energy Storage Systems
Prof. Dr. Anders, Institute of Structural Engineering – Construction Materials

Grafic: ChatGPT

1st Symposium tec2zero University of Wuppertal

SCIENTIFIC PROGRAM

Campus Griffenberg
K.11.23 – Hörsaal 32
09./10.10.2025

Activity Field
Technology Towards
„Zero-Waste and Zero-Carbon“



BERGISCHE
UNIVERSITÄT
WUPPERTAL

Thursday, 9th October 2025

09:30	Arrival
10:00	Welcome, Prof. Dr. Birgitta Wolff, Rector
10:15	„Electrochemical Cross-Coupling with CO ₂ and Small Molecule Reactants“ <i>Prof. Nikolay Kornienko</i>
10:45	„Global Circular Economy –socio-ethical justice and challenges for science“ <i>Prof. Jörg Rinklebe</i>
11:05	„Perovskite and Organic Solar Cells to Overcome the Green Paradox“ <i>Dr. Kai Oliver Brinkmann</i>
11:25	Coffee Break
12:00	„Automated Detection of Anthropogenic Rare Earth Element Contaminations“ <i>Prof. Malte Mues, David Ernst</i>
12:20	„Optimization of cement stone recovery in concrete recycling by combined thermal-mechanical treatment“ <i>Prof. Steffen Anders, Jasmin Otto</i>
12:40	„Microgels as prototype platform for key concepts of stimulus-responsiv degradability engineering “ <i>Prof. Robert Göstl</i>
13:00	Lunch Break
13:45	Poster Session
15:15	Coffee Break
15:45	„Nanostructured and Atomically Dispersed Catalysts on Biomass-Derived Supports for Lignin Depolymerization“ <i>Dr. Lucie Marie Lindenbeck, Prof. Adam Slabon</i>
16:05	„Grinding Sludge Waste from High-Alloy Tool Steel through a Smelting-Metallurgical Process“ <i>Jonathan Hann</i>
16:25	„Where Safety Meets Sustainability –Oxidations in Continuous Flow“ <i>Dr. Adrián Gómez Suárez</i>
16:45	„GraphRAG-Based Product Selection: Multi-Criteria Sustainability in Construction“ <i>Agnes Kelm</i>
18:30	Get Together Guest House Campus Freudenberg

Friday, 10th October 2025

09:00	„Future Cleantech Architects: driving high-impact innovation in construction, aviation, shipping and other hard-to-abate sectors“ <i>Dr. Peter Schniering</i>
09:30	„Zero Narratives and treshold narratives“ <i>Prof. Matei Chihaia</i>
09:50	„Psychology of Transformation: How Personality and Motivation Shape Sustainable Behavior and Business Processes“ <i>Prof. Stefan Diestel</i>
10:10	„Mathematic Modeling and Numerical Methods for Pricing Emission and Renewable Energy Certificates in Energy Markets“ <i>Prof. Matthias Ehrhardt, Prof. Carlos Vázquez Cendón</i>
10:30	Coffee Break
11:00	„Sustainable Design Literacy –a systemic approach through product and service innovation“ <i>Prof. Martina Fineder, Prof. Christa Liedtke</i>
11:15	Poster Session
12:00	„Port-Hamiltonian Surrogate Modeling for Renewable Energy Systems“ <i>Prof. Hannes Gernandt</i>
12:15	„Evaluation of Regionally Conditioned Climatic Hazards Affecting Electrical Distribution Systems during Heatwaves and Cold Spells“ <i>Nadine Lienenklaus</i>
12:40	„Building Performance Assessments at the Living Lab NRW as an Educational Resource“ <i>Dr. Isil Kalpkirmaz Rizaoglu</i>
13:00	Award Ceremony <i>Prof. Dr. Stefan Kirsch, Vice-Rector for Research and Digitalisation</i>
	Closing