

Circular Bioeconomy Symposium

20 Years of Offenburg/Olsztyn Collaboration

Scientific Program Day 1, October 13th

09:00 **Opening & Welcoming Remarks**

Prof. Dr. Stephan Trahasch | Rector of Hochschule Offenburg
and Prof. Dr. Jerzy A. Przyborowski | Rector of University of Warmia and Mazury

09:10 **Welcome of the State Government Baden-Württemberg**

Dr. Andreas Kiesel | Ministerium für Umwelt, Klima
und Energiewirtschaft BW

09:20 **20 Years of Scientific Collaboration – From Environmental Best Practice to Circular Bioeconomy**

Dr. Andreas Wilke | HSO

09:30 **Session 1: Biocatalytic Paths to Sustainable Nutrition - Linking Biorefineries and Food Tech**

Moderation: Prof. Dr. Thomas Eisele | HSO
and Prof. Dr. Monika Modzelewska-Kapituła | UWM

09:35 **S1.1: Biorefineries to Precision Fermentation**

Dr. Daniel Heid | PICEA BIOSOLUTIONS

09:55 **S1.2: Fully Automated Growth Media Optimization Employing Batch Bayesian Optimization**

Prof. Dr. Frédéric Lapierre | HSO

10:10 **S1.3: Optimising *Trichoderma reesei* Cellulase Production for Sustainable Bioprocessing**

Joanna Łukasiewicz | HSO

10:25 **S1.4: Valorisation of Heterogeneous Biowastes via Combined Pretreatment Strategies for Biorefinery Products**

Olga Zielińska | HSO

10:40 **Poster Session: Biocatalytic Paths to Sustainable Nutrition - Linking Biorefineries and Food Tech**

Moderation: Sophie Stürmer and Lukas Burger | HSO

10:50 **Coffee Break**



11:15	Session 2: Advanced Biogas & Power-to-Gas Moderation: Prof. Dr. Christiane Zell HSO and Prof. Dr. Katarzyna Bernat UWM
11:20	S2.1: How to Plan a Biogas Plant Dr. Simone Besgen Biogas Besgen GmbH
11:40	S2.2: From Renewable Electricity and CO₂ to e-Methane: Low-Cost Water Electrolysis for Carbon Recycling Prof. Dr. Ulrich Hochberg HSO
11:55	S2.3: From Renewable Electricity and CO₂ to e-Methane: Biological Methanation in a Pilot-Scale Counter-Current Bubble Column Dr. Fabian Haitz HSO
12:10	S2.4: Load-Dependent Resilience of Jerusalem Artichoke and Cattle Manure Co-Digestion at Short Hydraulic Retention Time Prof. Dr. Tomasz Pokój UWM
12:25	Poster Session: Advanced Biogas & Power-to-Gas Moderation: Sophie Stürmer and Lukas Burger HSO
12:35	Lunch Break
14:00	Poster Session: Environmental Pollution From Waste to Wealth Moderation: Sophie Stürmer and Lukas Burger HSO
14:30	From Campus to Career: Alumni Insights and Doctoral Opportunities Prof. Dr. Christiane Zell; Prof. Dr. Heide Biollaz; Izabela Sosnik; Vera Vanié HSO and Prof. Dr. Paweł Brzuzan UWM
15:30	Coffee Break
16:00	Celebration Act: 20 years of Joint Programmes between Offenburg and Olsztyn Prof. Dr. Tobias Hagen HSO



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Scientific Program Day 2, October 14th

08:45 Session 3: Environmental Pollution: Monitoring, Mitigation and Sustainable Solutions

Moderation: Prof. Dr. Melanie Broszat | HSO and Prof. Dr. Katarzyna Bułkowska | UWM

08:50 S3.1: Usage and Design of Bioassays for the Detection of Endocrine-Disrupting Compounds in Environmental Matrices

Sophie Stürmer | HSO

09:10 S3.2: Elimination of Antibiotic Resistances and Faecal Indicators in Wastewater Treatment

Dr. Claudia Stange | DVGW-Technologiezentrum Wasser

09:25 S3.3: Micropollutant Removal from Municipal Wastewater

Mingqing Xu | ProMinent Group

09:40 S3.4: Circular, but Safe? Mycotoxin Risk from Kitchen Waste to Compost

Prof. Dr. Maciej Woźny and Dr. Sławomir Kasiński | UWM

09:55 S3.5: Aerobic Chloroethene Biodegradation: Stimulation and Molecular Monitoring

Prof. Dr. Andreas Tiehm | DVGW-Technologiezentrum Wasser

10:10 Coffee Break

10:25 Matchmaking Workshop: Joint Research Alliance — Deepening UWM & HSO Cooperation

Dr. Fabian Haitz and
Dr. Andreas Wilke | HSO

Didactics Workshop: Actionable Gamification for Scientific Communication

Lea Wattenberg and
Alexander Weigand | HSO



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- 11:25 **Session 4: From Waste to Wealth:
Thermochemical Pathways for Resource Recovery**
Moderation: Prof. Dr. Heide Biollaz; Prof. Dr. Daniel Kray | HSO
and Dr. Mariusz Gusiatin | UWM
- 11:30 **S4.1: Industrial Biochar Production in the Czech Republic:
Producers, Technologies, and Characterization**
Dr. Jaroslav Moško | UCT Prague
- 11:50 **S4.2: Preparing the Pyrolysis Industry for the Future**
Dr. Leonie Jakob | HSO
- 12:05 **S4.3: Co-Pyrolysis of Municipal Sewage Sludge with Lignocellulosic Biomass:
Effects on PAH Formation and Heavy Metal Stabilization in Biochar**
Prof. Dr. Mariusz Gusiatin | UWM
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- 12:20 **Closing Remarks**
Prof. Dr. Thomas Eisele
- 12:30 **Lunch**

