



Bioeconomy Symposium Advancing Sustainable Innovation

Agenda

12:00 - 12:45 | Check-In & Lunch Buffet

- Networking opportunity
- Polaroid & Profile sheets

12:45 - 13:00 | Opening (Festsaal)

- Dr. Dana Strauß, Directing Manager, JenaVersum e.V.
- Prof. Dr. Thomas Pertsch, Vice President for Research and Innovation, Friedrich Schiller University Jena

13:00 - 13:30 | Keynote (Festsaal)

- Roman Hinz, University of Kassel: *"How Sustainable is it? State and Trends of the German Bioeconomy"*

13:30 - 13:40 | Workshop Pitch (Festsaal)

- Brief introduction to the workshops

13:45 - 14:30 | Parallel Interactive Workshops

Hands-on exploration of bioeconomy topics: idea exchange, project outlines, consortium building

- **Room 1:** Dr. Sarah Ann Hofbrucker MacKenzie, FluIDect GmbH, Jena: *"Monitoring of bioprocesses – Specific and quantitative determination of protein concentrations with at-line biosensor technology"*
- **Room 2:** Prof. Dr. Michael Stelter, Friedrich Schiller University Jena / Fraunhofer IKTS & Dr. Franziska Scheffler, Friedrich Schiller University Jena : *"Functional Materials for Vertical Farms"*
- **Room 3:** Prof. Dr. Christoph Koch, University of Applied Sciences Jena: *"From Waste to Fuel, Fertilizer, Feed, and Biopolymers"*

14:30 - 15:00 | Coffee Break & Networking

- Polaroid & Profile sheets

15:00 - 16:15 | Lightning Talks & Discussions (Festsaal)

Perspectives on research and innovation in bioeconomy

- Prof. Dr. Miriam Agler-Rosenbaum, Leibniz Institute for Natural Product Research and Infection Biology - Hans-Knöll-Institute -, Jena: "Introduction to the Leibniz-HKI Bio Pilot Plant: Scaling Biomanufacturing Innovations"
- Arvid Friebe, bioeconomy e.V., Leuna: "Building a Bioeconomy Model Region: Insights from BioEconomy e.V."
- Workshop Results
 - Dr. Sarah Ann Hofbrucker MacKenzie
 - Prof. Dr. Michael Stelter & Dr. Franziska Scheffler
 - Prof. Dr. Christoph Koch

16:15 - 16:30 | Closing Remarks (Festsaal)

Event Location: <https://maps.app.goo.gl/gsgicCjXBWXC931t9>

Register here: <https://www.nucleus-jena.de/veranstaltung/bioeconomy-symposium-advancing-sustainable-innovation/>

Speaker Profiles

M. Sc. Roman Hinz



Roman Hinz is an environmental and resource economist at the Kassel Institute for Sustainability. His research focuses on land use dynamics, climate change, food security, and rural transformation. As part of the BMBF-funded SYMOBIO 2.0 project, he contributes to agricultural land footprint analyses and climate impact assessments of the German bioeconomy. SYMOBIO develops the scientific basis for systemic monitoring and modeling of the bioeconomy in Germany, considering international sustainability aspects. His current work in Africa and Latin America focuses on agroforestry and conservation incentives as tools for enhancing landscape resilience.

Dr. Sarah Ann Hofbrucker MacKenzie



Dr. Sarah Ann Hofbrucker MacKenzie is a biomedical scientist and biochemist, serving as Chief Laboratory Manager at FluiDect GmbH. Her expertise covers membrane protein interaction, biosensor development, and synaptic plasticity. She focuses on protein fermentation and advanced imaging techniques, contributing to innovative biosensor technologies.

Prof. Dr. Christoph Koch



Prof. Dr. Christoph Koch is a professor for Technical & Environmental Chemistry at University of Applied Sciences Jena. His work is dedicated to transforming waste into sustainable products such as fuels, fertilizers, feed, and biopolymers. His expertise spans environmental analysis, ecotoxicology, and technical chemistry, contributing to circular economy advancements.

Dr. Franziska Scheffler



Dr. Franziska Scheffler is a geoscientist and glass chemist at Friedrich Schiller University Jena. Her research explores bioactive glasses and the development of agricultural fertilizer glass innovations. With a background in mineralogy and petrology, she works on sustainable plant nutrition solutions and enhancing soil health through novel glass compositions.

Prof. Dr. Michael Stelter



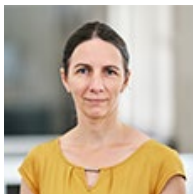
Prof. Dr. Michael Stelter holds the Chair for Environmental Engineering at Friedrich Schiller University Jena and serves as Deputy Director at Fraunhofer IKTS. His work centers on functional ceramics for water treatment, energy storage, and hydrogen applications. With extensive expertise in material synthesis and system integration, he drives innovations in sustainable vertical farming technologies.

Arvid Friebe



Arvid Friebe, an independent business consultant, will present a lightning talk on BioEconomy e.V. Founded in 2012, the association aims to establish Central Germany as an international model region for bioeconomy. It gained national recognition by winning the German Federal Ministry of Education and Research's Spitzencluster-Wettbewerb, securing around €40 million in funding for bioeconomy R&D projects in Saxony-Anhalt and Saxony. The association, based in Leuna, currently has 46 members and is chaired by Dr. Joachim Schulze, managing partner of BioConsulting GmbH. Friebe brings extensive experience to the topic – from 2013 to 2023, he led the Zeitz Chemical and Industrial Park and previously worked as Senior Project Manager at Saxony-Anhalt's economic development agency.

Prof. Dr. Miriam Agler-Rosenbaum



Miriam A. Rosenbaum, Professor for Synthetic Biotechnology at Friedrich Schiller University Jena and Department Chair of the Bio Pilot Plant at Leibniz-HKI, leads research focused on advancing biomanufacturing. With expertise spanning microbiology, bioelectrochemical systems, and synthetic biotechnology, her team develops end-to-end bioprocess chains – from raw substrates to final products like antibiotics, enzymes, and biopolymers, scaling up to cubic meter volumes. The Bio Pilot Plant also pioneers picoliter-scale screening technologies, enabling rapid selection of microbial producers for novel antimicrobials and enzymes. Beyond internal research, the facility supports academic collaborations and SMEs in translating bioprocess innovations into practical applications.