

KIT Center Materials in Technical and Life Sciences (MaTeLiS)



Materials Day 2024

October 16th, 2024 from 9:00 (registration from 8:30 on) am to 4:30 pm
Auditorium at the "Fortbildungszentrum für Technik und Umwelt (FTU)"
KIT Campus North

Agenda

Registration from 8:30 - 9:00 am

09:00 - 09:20	Welcome – MaTeLiS News Prof. Wolfgang Wenzel / Dr. Nathalie Matter-König
09:20 - 10:00	<ul style="list-style-type: none"> Keynote: MaterialNeutral: Nachhaltigkeit und Ressourcenouveränität durch digital unterstützte Werkstoffinnovationen Peter Hassenbach /523, BMBF
10:00 - 10:40	MaTeLiS Focus Field: Self-assembled, adaptive and biomimetic materials systems
10:00 - 10:20	<ul style="list-style-type: none"> Supramolecular DNA architectures with chromophores. Prof. Achim Wagenknecht, KIT, IOC
10:20 - 10:40	<ul style="list-style-type: none"> Materials to study microbial communities. Marta Velaz Martín, KIT, IBG
10:40 - 11:10	Poster Pitches
11:10 - 11:50	Networking - Poster Session
11:50 - 12:30	<ul style="list-style-type: none"> Keynote: AI and data driven design of sustainable materials Prof. Jörg Neugebauer, MPI
12:30 - 13:10	Scientific Highlight – New Projects
12:30 - 12:50	<ul style="list-style-type: none"> Observation of Josephson Harmonics in Tunnel Junctions Dr. Dennis Rieger, KIT, PHI/IQMT

12:50 - 13:10	<ul style="list-style-type: none"> • Chemo-mechanical modeling of microstructural processes during intercalation in cathode materials Dr. Daniel Schneider, KIT, INT
13:10 - 14:30	Poster Session - Lunch
14:30 - 15:10	<ul style="list-style-type: none"> • Keynote: Sustainable Materials and Formulations Dr. Frank Runge, BASF
15:10 - 15:50	MaTeLiS Focus Field: Self-assembled, adaptive and biomimetic materials systems
15:10 - 15:30	<ul style="list-style-type: none"> • Reconstructing Cellular Gene-Control Hubs using Synthetic DNA Nanostructures Aaron Gadzekpo, KIT, IBCS
15:30 - 15:50	<ul style="list-style-type: none"> • New directions in biophotonics Prof. Moritz Kreysing, KIT, IBCS-BIP
15:50 - 16:30	Networking - Poster Session - Discussion

The Materials Day is open to the public and free of charge, [registration is mandatory](#) for all participants.

Speakers

Mr. Peter Hassenbach: Federal Ministry of Education and Research (BMBF)
 Prof. Jörg Neugebauer: Max Planck Institute for Sustainable Materials (MPIE)
 Dr. Frank Runge: BASF – Advanced Formulation

KIT

MSc. Aaron Gadzekpo: Institute for Biological and Chemical Systems (IBCS)
 Dr. Nathalie Matter-König: Institute of Nanotechnology (INT)
 Prof. Moritz Kreysing: Institute for Biological and Chemical Systems - Biological Information Processing (IBCS - BIP)
 Dr. Dennis Rieger: Institute of Physics (PHI)
 Dr. Daniel Schneider: Institute of Nanotechnology (INT)
 MSc. Marta Velaz Martin: Institute of Biological Interfaces 1 (IBG-1)
 Prof. Achim Wagenknecht: Institute of Organic Chemistry (IOC)
 Prof. Wolfgang Wenzel: Institute of Nanotechnology (INT)