

Tentative Programm

SUNDAY, October 23, 2022

17:00 Check-in

18:00 Dinner

Keynote

20:00 Klaudia Seibel, Phantastische Bibliothek Wetzlar, Germany
Materials in Science Fiction

MONDAY, October 24, 2022

Session 1: Fundamental Physics – Concepts that Define Demands for Materials

09:00 Christian Jooß, Georg-August-Universität Göttingen, Germany
Elementary Steps of Energy Conversion in Materials – From Single Excitations to Correlated Dynamic

10:00 Alfred Ludwig, Ruhr-Universität Bochum, Germany
High-throughput Experimentation for Discovery of Future Energy Materials

11:00 Coffee break

11:30 2 short presentations

12:10 Lunch

Session 2: The Materials Space

13:30 Rossitza Pentcheva, Universität Duisburg-Essen, Germany
Designing Electronic Phases at Oxide Interfaces for Electronics and Energy Applications

14:30 Tejs Vegge, Technical University of Denmark
Transforming Computational Discovery of Energy Materials

15:30 Coffee break

16:00 2 short presentations

16:40 Poster slam (2 min per poster)

17:30 Poster session

19:00 Dinner

20:00 Round table discussion

TUESDAY, October 25, 2022

Session 3: The Materials' Function in Energy Technologies

08:30 Jeffrey Bergthorson, McGill University, Montréal, Canada
Using Metals as Carbon-free Fuels and Energy Carriers

09:30 Linda Nazar, University of Waterloo, Canada
Materials for High-Energy Batteries

10:30 Coffee break

11:00 Kerstin Schierle-Arndt, BASF SE, Ludwigshafen, Germany
An Industrial View on the Development of Materials for Energy Technologies

12:00	Lunch
13:30	Hubert Gasteiger, TU München, Germany <i>Battery or Fuel Cell Electric Vehicles – Technological, Economical, and Ecological Constraints for Sustainable Electromobility?</i>
14:30	3 short presentations
15:30	Coffee break
16:00	Poster slam (2 min per poster)
17:00	Poster session
18:30	Dinner

Panel Discussion

19:30	Panel discussion (Christian Hagelüken, Umicore; Marie Jaroni, Thyssenkrupp Steel, Dierk Raabe, MPI Eisenforschung, Kerstin Schierle-Arndt, BASF, Peter Viebahn, Wuppertal Institut, Stefan Hajek, Wirtschaftswoche)
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WEDNESDAY, October 26, 2022

Session 4: Old Materials – New Perspectives

08:30	Dierk Raabe, MPI Eisenforschung, Düsseldorf, Germany <i>Sustainable Metals</i>
09:30	Martin Schneider, Verein Deutscher Zementwerke, Germany <i>The Building Materials Industry in the Changing Values of the Times</i>
10:30	Coffee break
11:00	2 short presentations
12:00	Lunch

Networking Event

13:00	Hike in the mountains around Bad Honnef
17:30	Poster slam (2 min per poster)
18:30	Dinner
19:30	Poster session

THURSDAY, October 27, 2022

Session 5: The Materials' "Economy"

08:30	Christian Hagelüken, Umicore, Hanau-Wolfgang, Germany <i>Resources, Recycling and Circular Economy: The case of Metals</i>
09:30	Peter Viebahn, Wuppertal Institut, Germany <i>Critical Materials of the Transition in the Energy and Industry Sector – Status, Assessment and Perspectives</i>
10:30	Coffee break
11:00	2 short presentations

Final Discussion

11:40	Moderated final discussion
13:00	Lunch
14:00	Fare well