

2nd DRESDEN BATTERY DAYS

“Materials and technologies for all solid-state batteries”
Dresden, September 18–20, 2017

PRELIMINARY PROGRAM

Monday, September 18, 2017

Pre-registration, Fraunhofer IKTS, Dresden (18:00–20:00)

Get together with Fraunhofer lab tour and poster session (18:00–22:00)

Tuesday, September 19, 2017

Registration, Fraunhofer IKTS, Dresden

Lectures

Evening program at ‘Lingner Schloss’:

- Guided tour
- Conference dinner

Wednesday, September 20, 2017

Lectures

VENUE

Fraunhofer Institute for Ceramic Technologies and Systems
Winterbergstr. 28
01277 Dresden
Germany

SEPTEMBER 18, 2017

17:30–20:00	Pre-registration
18:00–22:00	Get together with Fraunhofer lab tour (18:30–20:00) and poster session

SEPTEMBER 19, 2017

8:00	Registration
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SESSION: MATERIAL ASPECTS

9:00	Opening remarks by the organizers Prof. Alexander Michaelis, Mareike Wolter (Fraunhofer IKTS)
9:30	Advanced automotive batteries – development needs and trends Peter Lamp (BMW Group)
10:20	Ceramic electrolytes and electrodes for all-solid-state batteries with high energy and power density – environmentally benign, inexpensive, safe and long lasting Werner Weppner (Christian-Albrechts-Universität zu Kiel)
11:10	Coffee break in exhibition area
11:40	Solid-state batteries based on sulfidic ion conductors: view from an industrial perspective Ingo Kerkamm (Robert Bosch GmbH)
12:15	Polymer electrolytes for lithium batteries – state of the art and future perspectives Dominic Bresser (Karlsruhe Institute of Technology KIT)
12:50	Lunch and poster session in exhibition area
14:00	Solid-state lithium metal batteries based on garnet and composite electrolytes Anna Llordés (CIC EnergiGUNE, Parque Tecnológico de Álava; IKERBASQUE, The Basque Foundation for Science)
14:35	Li-metal anode: challenges and opportunities Stefan Theuerkauf (TARANIS GmbH)
15:10	Safety of large battery packs, how will future all-solid-state li-ion batteries perform? Andrey Golubkov (Kompetenzzentrum - Das virtuelle Fahrzeug Forschungsgesellschaft mbH)
15:20	Round table discussion Stefan Koller (VARTA Micro Innovation GmbH)
16:20	Closing remarks first day Jürgen Garche
17:30	Guided tour at Lingner Schloss
19:00	Conference dinner at Lingner Schloss

SEPTEMBER 20, 2017

SESSION: COMPONENT MANUFACTURING AND APPLICATION ASPECTS

9:00	Designing all-solid-state batteries: a model approach Philipp Braun (Karlsruhe Institute of Technology KIT)
9:35	Degradation mechanisms of all-solid-state batteries Felix Richter (Giessen University)
10:10	Material development and processing aspects of co-sintered ceramic electrodes for all-solid-state batteries Katja Wätzig (Fraunhofer IKTS)
10:45	Coffee break in exhibition area
11:15	Challenges of coating processes and coatings under controlled environment Thomas Exlager (Coatema Coating Machinery GmbH)
11:50	Post lithium-ion technologies: novel and sustainable materials for energy storage Andreas Hintennach (Daimler AG)
12:25	Closing remarks and invitation to Graz Battery Days 2018 Stefan Koller (VARTA Micro Innovation GmbH)
12:45	Lunch in exhibition area and farewell
