



Expert Forum Materials and Technologies for Future Mobility

9th December 2016, 9am-4pm

Venue: Darmstadtium, Room 2.06 | Schlossgraben 1 | 64283 Darmstadt

All participants are invited to join us for dinner on 8th December 2016, at 7pm:
Restaurant: Glasschrank | Pützerstraße 6 | 64287 Darmstadt

Hotel recommendation: Welcome Hotel****, Karolinenplatz 4 | 64289 Darmstadt

Scope

Business and industry related to mobility is a major pillar of European society: the automotive sector alone accounts for 4 % of the EU GDP. At the same time, transportation represents a quarter of the greenhouse emissions in Europe. Thus, the search for novel, economic as well as environmentally sustainable forms of mobility has become a key theme in society as well as in academic and industrial research. This innovation process will only have a lasting impact in the transition towards a Green Economy if it comes with technological breakthroughs in finding and processing the strategic materials needed to implement new mobility technologies. A good example are e-bikes that currently develop from a niche to a mass-market product – a process that is made possible by the availability of high energy density battery and magnet materials integrated in compact, well-designed e-drives.

EIT Raw Materials (CLC Central) and its partners Fraunhofer, TU Darmstadt, Heraeus and Materials Valley invite industrial experts and academics to discuss challenges and needs with regards to functional materials in the mobility sector. Special focus will be on batteries, magnetic materials, and e-drives with the aim to develop a roadmap for materials developments and future collaboration activities.

Contact: **Nora Groth – EIT RawMaterials, Central CLC**
Phone: +49 162 43200229 Mail: nora.groth@eitrawmaterials.eu

Agenda

09:00 Welcoming and Introduction to the Workshop

EIT RawMaterials at a Glance

Didier Zimmermann – General Manager, EIT RawMaterials, CLC Central

Towards a Roadmap for Substitution

Roland Gauß – Thematic Officer Substitution and Recycling, EIT RawMaterials

Materials for Mobility – Quo Vadis?

Rudolf Stauber – Executive Manager, Fraunhofer Project Group IWKS

Thematic Sessions – Impulse presentations followed by moderated discussion panels

09:45 Batteries for Mobility. Current Status and Future Needs

Jürgen Wachter – Executive Vice President, Heraeus New Businesses -Technology and Scouting

Paul Spurk – Manager Applied Technology Rechargeable Battery Materials, Umicore

Cédric Haon – CEA LITEN, Grenoble

Moderator: Elbert Loois – Managing Partner, Paskert + Loois HiTech Materials Advisory

11:00 Coffee break

11:15 E-Drives for Mobility and Automation. Current Status and Future Needs

Jean-Marc Dubus – Advanced Project Manager, Valeo Electrical System R&D

Armin Dietz – Head of Institute ELSYS, TH Nuremberg

tbc, Mondragon

Moderator: Andreas Binder – Head of Institute of Electrical Energy Conversion, TU Darmstadt

12:30 Lunch Break

13:30 Magnetic Materials for Energy Conversion. Current Status and Future Needs

Kerstin Schierle-Arndt – Senior Research Manager Inorganic Materials and Synthesis, BASF

Matthias Katter – Director R&D Permanent Magnets, Vacuumschmelze

Christian Elsässer – Head of Business Unit Material Design, Fraunhofer IWM

Moderator: Oliver Gutfleisch – Head of Functional Materials, TU Darmstadt

14:45 Coffee break

15:00 Remanufacturing and Recycling. Towards a Circular Economy of Strategic Materials

Erika Machacek – Centre for Minerals and Materials, GEUS

Matthias Buchert – Head of Division Resources & Transport, Oeko-Institute

Moderator: Roland Gauß – Thematic Officer Substitution and Recycling, EIT RawMaterials

16:00 End