

Application

HOW TO APPLY?

Send your application before May 10 2015
and follow the link for the application form:

<http://www.phd-renewable-energy.de/en/events/e-mobility-2015/>

Participants are requested to present their
research with a poster (A1).

A 100 EUR fee is applicable and is to be paid
in cash at the venue.

WHO SHOULD APPLY?

The summer school is aimed at young scientists who are doing research in any aspect of electro mobility (mainly at doctorate level, but also young post-docs and advanced master students). Funding opportunities are available for international doctoral students.



Summer School

HOW EFFICIENT IS ELECTRO MOBILITY?

**Hanse-WissenschaftsKolleg (HWK) &
University of Oldenburg**

June 1-5, 2015

Lehmkuhlenbusch 4

27753 Delmenhorst (Germany)

- Extensive industry exposure
- Lectures on state-of-the-art topics in electro mobility.
- Field trips
- Participation in experts workshop

The main scientific topics are:

- Energy and material efficiency
- Integration of IT systems
- Smart mobility
- Business models and challenges
- End-of-life management

Contact

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This workshop is promoted by the
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and co-funded by the
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Summer School Electro Mobility:

How Efficient is Electro Mobility?

June 1 – 5, 2015, Delmenhorst (Germany)

SIGN UP NOW!!!

promoted by

DAAD

co-funded by



Summer School and International Conference: 'How efficient is Electro Mobility'

Monday, June 1, 2015 - Summer School

- 10:00 Arrival and Welcome Coffee**
- 10:30 Opening and Introduction to the Conference (the organizers)
- 11:15 Sustainable Mobility (Eckhard Helmers, U of Applied Science Trier, Germany)
- 12:00 Integration of Electric Cars with Smart Buildings (Wedigo von Wedel, NEXT ENERGY, Oldenburg)
- 12:45 Lunch**
- 14:00 World Café
- 15:30 Coffee Break and Poster Session**
- 16:00 Collection of Waste Electrical and Electronic Equipment (Julia Hobohm, TU HH, Germany)
- 16:45 Electro Mobility in Future Smart Grids (Sebastian Lehnhoff, Offis e.V., Germany)
- 17:30 *Discussion and wrap-up of Day 1*
- 18:00 Dinner at HWK**

Tuesday, June 2, 2015 - Summer School

- 09:00 Critical Metals in the Automotive Industry (Alexandra Pehlken, CvO University, Germany)
- 09:45 Potential of Electronics and their Material Value in Cars (Kerstin Kuchta, TU HH, Germany)
- 10:30 Coffee Break**
- 11:00 Sustainable Engineering (Felipe Cerdas, TU Braunschweig, Germany)
- 11:45 Automatisation in Car Recycling (Nirugaa Natkunarajah, U Siegen, Germany)
- 12:30 *Discussion*
- 12:15 Lunch Break**
- 13:45 *Poster Session*
- 15:00 Coffee Break**
- 15:30 Solving the Last Mile Transportation Problem for Smart Cities (Oliver Risse, Floatility, Germany)
- 16:15 Material Flows in Batteries (Paul Mähltitz, TU Berlin, Germany)
- 17:00 *Discussion and wrap-up of Day 2*
- 17:30 Dinner at HWK**

Wednesday, June 3, 2015 - Excursion

- Morning *Plant Visit: Mercedes-Benz in Bremen*
- Afternoon *Industrial Visit - Supplier (Veniox)*
- Evening *Sightseeing Bremen*

Thursday, June 4, 2015 - Conference

- 10:30 Arrivals and Welcome Coffee**
- 11:00 Opening and Introduction
- Session: Materials Perspective**
- 11:20 Cascade Use & the Correlation to Efficiency (Alexandra Pehlken, CvO University, Germany / Steven Young, University of Waterloo, Canada)
- 11:50 Criticality of Resources (Susanne Rotter, TU Berlin, Germany)
- 12:20 Are metal resources under severe pressure from e-mobility? (Marcel Weil, KIT ITAS Karlsruhe, Germany)
- 12:50 Lunch**
- Session: Mobility**
- 14:00 Sustainable Mobility within Schaufenster Electro Mobility (Benjamin Wagner vom Berg, CvO University, Germany)
- 14:30 The South African Way (Laurence Geyer, NMMU, South Africa)
- 15:00 Management of Battery-Electric Transport Vehicles in Maritime Container Terminals (Serge Runge, Energy Research Center of Lower Saxony, Germany)
- 15:30 Coffee Break**
- 16:00 Dismantling System of Lithium Ion Batteries (Nirugaa Natkunarajah, U Siegen, Germany)
- 16:30 Batteries – The Next Generation (Julian Schwenzel, Fraunhofer IFAM, Germany)
- 17:00 Battery and Fuel Cells: Future Car Concepts (Roswitha Zeis, Helmholtz Inst. Ulm, Germany)
- Evening Dinner**

Friday, June 5, 2015 - Conference

- Session: Fuel Cells and System Integration**
- 09:00 Fuel Cells in Automotive Applications (Pang-Chieh Sui, U Victoria, Canada)
- 09:30 Fuel Cells and System integration. (Corinna Harms, NEXT Energy, Germany)
- 10:00 Hydrogen Production – Needs and Challenges (Aimy Bazylak, University of Toronto, Canada)
- 10:30 Coffee Break**
- 11:10 Integration of Large Fleets of PHEVs into Smart Grids (Curran Crawford, U Victoria, Canada)
- 11:40 New concepts for fuel cell membranes (Michael Wark, CvO University, Germany)
- 12:10 Lunch Break**
- Session: (Re-)Manufacturing**
- 13:20 Addressing key question “How efficient is electro mobility” and Further Discussion (Eckhard Helmers, U of Applied Science Trier, Germany)
- 14:00 E-Mobility and Closed-Loop Recycling (Patricia Egede, Christoph Hermann, TU Braunschweig, Germany)
- 14:30 Remanufacturing in China (Chen Ming, SJTU Shanghai, China)
- 15:00 Coffee Break**
- 15:30 Potential Market and Strategies for Part Reuse and Material Recovery of New Energy Vehicles in China (Jinsheng Xiao, Wuhan, China)
- 16:00 Activities in the Metropolitan Region (Matthias Brucke, Clustermanager Automotive Nordwest e.V. Bremen)
- 16:30 Wrap up and Closing remarks
- 17:00 Departures**