



**Summer School of the DFG Priority Programme
SPP 1473, WeNDeLiB**

- Program -

**Materials with New Design for Improved Lithium Ion Batteries,
Werkstoffe mit neuem Design für verbesserte Lithium-Ionen-Batterien**

**September 24 - 27, 2013
Carat Hotel Resort Eifel
Laufenstrasse 82, 52156 Monschau / Eifel, Germany**

Tuesday, September 24, 2013

Afternoon Arrival, Registration
19:00 Uhr Dinner

Wednesday, September 25, 2013

<i>9:00 – 9:15</i>	Welcome and organization issues (Hans Seifert, Committee members of SPP1473)
<i>9:15 – 10:45</i>	From Lithium to Lithium Ion Batteries and back again (Martin Winter, University of Münster, MEET)
<i>10:45 – 11:15</i>	<i>Coffee Break</i>
<i>11:15 – 12:45</i>	Interface Phenomena, Microstructure Defects and Phase Stabilities on Nanoscale - a Microstructure Point of View – Part I (David Rafaja; Technical University of Freiberg)
<i>12:45 – 14:00</i>	<i>Lunch time</i>
<i>14:00 – 15:30</i>	Interface Phenomena, Microstructure Defects and Phase Stabilities on Nanoscale - a Microstructure Point of View – Part II (David Rafaja; Technical University of Freiberg)
<i>15:30 – 16:00</i>	<i>Coffee Break</i>
<i>16:00 – 17:30</i>	Lithium-ion batteries: materials, challenges and perspectives (Helmut Ehrenberg, KIT)
<i>18:00 – 19:30</i>	<i>Dinner</i>
<i>19:30 – 20:15</i>	Ab-initio methods (Jens Kortus, Technical University of Freiberg)

Thursday, September 26, 2013

9:00 – 10:30	How to derive Income from Li-ion Batteries and Opportunities for Hybrid Battery/Supercapacitor Systems (Peter Hall; Univ. of Sheffield)
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 12:30	Solid Electrolytes: Properties and Applications (Magnus Rohde, KIT)
12:30 – 14:00	<i>Lunch time</i>
14:00 – 15:30	Energy Storage Research in Germany and Europe – Road Map Developments (H. J. Seifert, KIT)
16:00 – 19:30	Excursion
19:30 – 20:30	<i>Dinner</i>
20:30 – 22:00	Individual Project Discussions

Friday, September 27, 2013

9:00 – 10:30	Energiewende and electric cars: status and requirements for batteries (Olaf Wollersheim, KIT)
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 12:30	Coulometric Titration (Petronela Gotcu-Freis, Hans Seifert, KIT)
12:30 – 13:30	<i>Lunch time</i>
13:30	Departure