### Preliminary Program

**Day 1 (Tuesday, 10.11.15)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Chair (or Organizer)</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Opening (room 4 / 5)</td>
<td>Opening (room 4 / 5)</td>
<td>Prof. Dr. Eckhard Beyer, Fraunhofer IWS Dresden, TU Dresden, Institute of Manufacturing Technology</td>
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<tr>
<td>09:10</td>
<td>Welcome address</td>
<td></td>
<td>Uwe Gaul, State secretary of Saxony state ministry for science and art</td>
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<tr>
<td>09:15</td>
<td>Energy efficiency of industrial heat recovery systems – pivotal role of heat exchanger technology</td>
<td></td>
<td>Dr. Vishwas V Wadekar, Research Director Process Industry Exchangers, PS2E Institute Centre de Recherche Claude – Delorme (CRCD), Jouy-en-Josas, France</td>
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<tr>
<td>10:15</td>
<td>Plenary Session</td>
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<td>10:30</td>
<td>German and international development trends of energy supply</td>
<td></td>
<td>Prof. Dr. Hanso Bruhnus, Deutsche Physikalische Gesellschaft, Vorsitzender des Arbeitskreises Energie</td>
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<tr>
<td>11:00</td>
<td>Steps towards energy revolution</td>
<td></td>
<td>Dr. René Umlauf</td>
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<td>11:45</td>
<td>New technologies for stationary energy storage</td>
<td></td>
<td>Prof. Dr. Stefan Kaskel, TU Dresden, Lehrstuhl anorganische Chemie, Fraunhofer IWS Dresden</td>
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<tr>
<td>12:10</td>
<td>Lunch, exhibition and poster session</td>
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<tr>
<td>13:40</td>
<td>Energy conversion (room 4)</td>
<td>Mobile energy storage</td>
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<td>13:40</td>
<td>Energy for smart cities I</td>
<td></td>
<td>Dr. Robert Franke, Energy Saxony e. V.</td>
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<td>13:40</td>
<td>Energy Storage (room 1)</td>
<td></td>
<td>Dr. Jens Tübbe, Fraunhofer-Institut für Chemische Technologie ICT</td>
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<td>13:40</td>
<td>Energy efficiency (room 5)</td>
<td></td>
<td>Jun.-Prof. Dr. Sebastian Reineke, TU Dresden, Institut für Angewandte Photophysik IAPP</td>
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<td>13:40</td>
<td>Chair</td>
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<tr>
<td>13:40</td>
<td>Energy for smart cities – the future landscape</td>
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<td>Dr. Philip Hofl, Roland Berger Strategy Consultants</td>
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<td>13:40</td>
<td>Fuel cell technology for grid support, storage and hydrogen infrastructure</td>
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<td>Chip Boltone, FuelCell Energy, Inc., Danbury, CT, USA</td>
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<td>13:40</td>
<td>Reversible SDC – storage and supply in one unit</td>
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<td>Christian von Olshausen, Sunfire GmbH</td>
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<td>13:40</td>
<td>Organic solar films for BPV applications prepared by vacuum roll-to-roll production</td>
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<td>Martin Pfeiffer, Heliatek GmbH</td>
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<td>15:00</td>
<td>Coffee break and exhibition</td>
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<td>15:30</td>
<td>Energy efficient facility management</td>
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<td>Christian von Olshausen, Sunfire GmbH</td>
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<td>15:30</td>
<td>Stationary energy storage</td>
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<td>Prof. Dr. Stefan Kaskel, TU Dresden, Lehrstuhl anorganische Chemie, Fraunhofer IWS Dresden</td>
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<td>15:30</td>
<td>Materials for Energy I</td>
<td></td>
<td>Prof. Dr. Gert Heinrich, Leibniz-Institut für Polymerforschung IPF</td>
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<td>15:30</td>
<td>Chair</td>
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<tr>
<td>15:30</td>
<td>Energy efficient facility management</td>
<td></td>
<td>Helko Siats, WISAG Gebäude- und Industrieservice Mitteldeutschland GmbH &amp; Co. KG</td>
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<td>15:30</td>
<td>Urban lighting – energy efficiency and lighting quality Sebastian Hesse</td>
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<td>NARVA Lichtquellen GmbH + Co. KG</td>
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<td>15:30</td>
<td>Integration of energy systems for distributed level applications</td>
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<td>Dr. Luigi Crema, Fondazione Bruno Kessler, Trento, Italy</td>
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<td>15:30</td>
<td>Solar district heating: efficient and zero CO₂ emission Reinhold Weiser</td>
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<td>AkoTec Produktionsgesellschaft mbH</td>
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<tr>
<td>16:00</td>
<td>Poster session</td>
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<td>16:00</td>
<td>DRESDEN concept Networking</td>
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*Energy storage (room 1): talks in English, no simultaneous translation provided. Please note that it is a preliminary version of the program.*
3rd Dresden conference »Energy in Future - Materials for Energy«

Day 2 (Wednesday, 11.11.15)

08:30 - 08:35        Grid development – a major challenge
                      Dr. Werner Uzitz, member of the executive board of TransnetBW GmbH

08:35 - 08:40        Overview on post-Li-Ion batteries
                      Prof. Doron Aurbach, Bar-Ilan University, Israel

09:30 - 10:20        Coffee break and exhibition

10:20 - 11:40        Energy conversion (room 4)
                      4th Workshop »Lithium-sulfur batteries« (Saal1)
                      Energy efficiency (room 5)

Session Materials for Energy II  Materials Industrial processes

Chair: Prof. Dr. Jürgen Eckert / Dr. Lars Giebeler

10:20 - 11:40
- Fuel cell catalysts: In-situ methods for advanced materials design
  - Prof. Dr. Christina Roth, Freie Universität Berlin, Institute of chemistry and biochemistry
  - New material concepts for Li-S batteries
    - Dr. Quiang Zhang, Tsinghua University, China
  - Study of electrodes and electrolyte/electrolyte interfaces of Solid oxide Fuel Cell (SOFC): identification of mechanism of reaction and degradation by using electrochemical impedance spectroscopy and electron microscopy
    - Prof. Dr. Albert Caneiro, Instituto Balseiro, Centro Atómico Bariloche/Argentina
  - Energy storage and logistics in Liquid Hydrogen Carriers (LOHC)
    - Dr. Daniel Teichmann, Hydrogenine Technologies GmbH

Session Materials for Energy Industry processes

Chair: Prof. Dr. Stefan Kaskel

10:20 - 11:40
- New material concepts for Li-S batteries
  - Dr. Quiang Zhang, Tsinghua University, China
  - In-situ X-ray Radiography Analysis of Lithium Sulphur Cells
    - Dr. Sebastian Risse, Helmholtz-Zentrum Berlin
  - On the factors determining the specific energy of the lithium-sulfur batteries
    - Prof. Vladimir Kosorotyin, Institute of Chemistry of the Russian Academy of Sciences, Russia

11:40 - 13:10 (90 min)
- Coffee break and exhibition

Session Materials for Energy II

Chair: Dr. Mareike Wolter

13:10 - 14:30
- Combined heat and power – a proven technology for a low emission future
  - Prof. Dr. Thomas Ploehn, DREHAU - Stadtwerke Dresden GmbH, ENSO Energie Sachsen Ost AG
  - Paper based energy storage devices
    - Prof. Leif Nyholm, University of Uppsala, Sweden
  - Stationary energy storage for commercial applications
    - Prof. Dr. Michael Stelter, Fraunhofer-Institut für Keramische Technologien und Systeme IKTS
  - Real operation of energy storage systems in low-voltage grids
    - Prof. Dr. Mirko Bodach, Westsächsische Hochschule Zwickau, Professur Elektrische Energieversorgung / Regenerative Energien

14:30 - 15:00 (30 min)
- Coffee break and exhibition

Session Materials for Energy II

Chair: Dr. Holger Althues

15:00 - 16:20
- Hydrogen-on-demand generators for fuel cell power systems
  - Prof. Dr. Marcus Tegel, Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM
  - Energy utilization of novel energy carriers
    - Prof. Dr. Stefan Voll, TU Bergakademie Freiberg
  - Solar Thermal Systems – Potentials, Possibilities and Limitations
    - Dr. Karin Rühling, TU Dresden, Institut für Energietechnik

Session Applications

Chair: Prof. Dr. Peter Schegner

15:00 - 16:20
- Room-temperature sodium-sulfur batteries for stationary energy storage
  - Prof. Dr. Michael Kohl, Fraunhofer-Institut für Werkstoff- und Strahltechnik IWS
  - Electrodes for Li-S batteries in automotive applications
    - Prof. Andreas Hintennach, Daimler AG
  - Optimal grid voltage - support operation of decentralized energy storage systems
    - Prof. Dr. Tobias Schnelle, Mitteldeutsche Netzgesellschaft Strom mbH

17:00 - 17:30
- Lab tours (bus transfer)

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