



## SCIENTIFIC PROGRAM

**Thursday, 27.10.2011**

12:00–13:00

**Registration / Mounting of Posters**

13:00–13:15

**Opening of the Colloquium and Introduction**

**Session I: Methods and Materials (O1..O4)**

13:15–13:45

**O1** *H. Mehrer (Münster)*

**Diffusion and Ionic Conduction in Oxide Glasses and its Pressure Dependence**

13:45–14:15

**O2** *R. A. De Souza (Aachen)*

**The Behaviour of Oxygen Vacancies in Single Crystal SrTiO<sub>3</sub> Substrates**

14:15–14:45

**O3** *H. Schmidt (Clausthal)*

**Self-Diffusion in Solids on Ultra-Short Lengths Scales: Metals, Ceramics and Semiconductors**

14:45–15:15

**O4** *B. Ruprecht (Hannover)*

**Probing Li Diffusion Parameters by NMR Methods**

**P1..** 15:15–16:15

**P39** **Coffee Break and Poster Session I**



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### Session II: Phenomena, Models and Materials (O5..O7)

16:15–16:45

**O5** *K. Funke (Münster)*

#### First and Second Universalities – Phenomena and Modelling

16:45–17:15

**O6** *J. Maier (Stuttgart)*

#### Nanoionics: Size Effects on Ion Transport and Electrochemical Storage

17:15–17:45

**O7** *P. Knauth (Marseille)*

#### TiO<sub>2</sub> Nanotubes for Li-ion Batteries

**P1..** 17.45–18.30

**P39** **Poster Session II**

19:15

#### Colloquium Dinner

*Burg Königsworth - Königsworther Str. 27, 30167 Hannover*

*G. Vogl (Wien)*

#### Diffusion interdisziplinär

*J. Maier (Stuttgart)*

#### After Dinner Speech



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### **Session III: Models and Materials (O8..O11)**

9:15–9:45

**O8** *T. Bredow (Bonn)*

**Lithium Diffusion in Solids: Insights from Theory**

9:45–10:15

**O9** *W. Dieterich (Konstanz)*

**Diffusion and Cluster Growth on Surfaces**

**P1..** 10:15–11:00

**P39** **Coffee Break and Poster Session III**

11:00–11:30

**O10** *B. Roling (Marburg)*

**Ion Transport across Grain Boundaries in Fast Lithium Ion Conducting Ceramics**

11:30–12:00

**O11** *J. Janek (Gießen)*

**Lithium Ion Conducting Garnets**

12:00–12:15

**Closing of the Colloquium**