



5-7 July 2010 Paris France

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# DIFFUSION IN SOLID IONIC CONDUCTORS

## SPECIAL SESSION

DSL 2010

Paris - FRANCE



### PLENARY LECTURES

'The Search for Super- and Ultrahard Materials: Go Nano!'  
Professor Stan Veprek, Germany

'Challenges of microstructural control of steel through  
diffusion processes'

Professor Yvan Houbaert, Belgium

Abstract Submission Deadline  
22 March 2010

## 'DIFFUSION IN SOLID IONIC CONDUCTORS' (SS6)

This special session will cover aspects of the fundamentals and applications of atomic transport in solid ionic conductors. Fundamentals will include: Measurement techniques, ionic diffusion and conduction within the bulk and at interfaces, modelling and computer simulations, mixed conductors, composite electrolytes, disordered materials, novel materials. Applications will include: fuel cells, batteries, sensor

### ABSTRACTS SUBMISSION:

Online: <http://www.dsl2010-paris.com/abstract.html>  
or directly by email to:  
[abstract@dsl2010-paris.com](mailto:abstract@dsl2010-paris.com)



### INVITED TALK: 'Anion and Cation Diffusion in Complex Oxides'

**Prof. Manfred Martin**  
Institute of Physical Chemistry  
RWTH Aachen University,  
Germany



### INVITED TALK: 'Diffusion and Ionic Conduction in Oxide Glasses'

**Prof. Helmut Mehrer**  
Institute for Materials Physics  
University of Muenster,  
Germany



### INVITED TALK: 'Ionic Transport in Salt-in-Polymer Electrolytes'

**Prof. Nicolaas A. Stolwijk**  
Institute for Materials Physics  
University of Muenster,  
Germany

### OVERVIEW TALK:

'Between Nanoseconds and Minutes: Diffusion Jumps in Ionic Conductors on Different Time Scales'  
by Prof. Paul Heitjans



Leibniz  
Universität  
Hannover

## PUBLICATION:

Papers submitted to DSL-2010 and accepted after review process will be published in the periodical "DEFECT AND DIFFUSION FORUM" (Special Issue)

by Trans Tech. Publications:  
[www.ttp.net/1012-0386.html](http://www.ttp.net/1012-0386.html)

cited in the Conference Proceedings Citation Index - Science (CPCI-S) by ISI Web of Knowledge



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