



5-7 July 2010 Paris France

Prof. Yuh Fukai
Institute of Industrial Science
The University of Tokyo
Japan

Prof. Markus Wilde
Institute of Industrial Science
The University of Tokyo
Japan

COMPUTATIONAL HEAT AND MASS TRANSFER: NEW APPROACHES AND INNOVATIVE SCHEMES

SPECIAL SESSION



Abstract Submission Deadline
22 March 2010

HYDROGEN-RELATED KINETICS IN MATERIALS (SS9)

This special session addresses broad aspects of H-related kinetics in various types of materials. Special attention will be given to accelerated diffusion and phase transitions in metals in hydrogen atmosphere. By bringing to light a variety of phenomena (possibly) caused by hydrogen, e.g. H-embrittlement and peculiar properties of electrodeposited metals, we intend to help clarifying their underlying mechanisms. Other topics of interest include proton conductors, H-kinetics in catalytic reactions on metal surfaces, as well as traditional and most recent problems of H diffusion in bulk and nano materials.

ABSTRACTS SUBMISSION:

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



INVITED TALK

'Hydrogen interacting with defects in metals and consequences regarding diffusion and embrittlement'

Prof. Reiner Kirchheim

Georg-August-Universität Göttingen,
Germany



INVITED TALK

'Proton conductivity in soft materials'

Dr. Sandrine Lyonnard

CEA Grenoble,
France



INVITED TALK

'Role of subsurface hydrogen diffusion in hydrocarbon conversions on supported model catalysts'

Dr. Swetlana Schauer mann

Fritz-Haber-Institut der Max-Planck
Gesellschaft,
Germany

INTRODUCTORY TALK:

"Hydrogen-induced superabundant vacancies in metals: Implication for electrodeposition"

Prof. Yuh Fukai

OVERVIEW TALK:

"Surface/subsurface transitions of hydrogen on metallic single crystals and nanoparticles"

Prof. Markus Wilde

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



Contact:

Prof. Yuh Fukai

yuh.fukai@m8.dion.ne.jp

Prof. Markus Wilde

wilde@iis.u-tokyo.ac.jp

DSL-2010 SECRETARIAT AND MANAGEMENT:

Ironix Global Events Consulting Lda

www.ironix-conferences.com

contact@dsl2010-paris.com

www.dsl2010-paris.com