



5-7 July 2010 Paris France

ORGANISERS
Prof. Iván E. Campos Silva
Instituto Politécnico Nacional
SEPI-ESIME Zacatenco,
México
Dr. Ramón Escobar Galindo
Surface and Coatings Department
Material Science Institute of Madrid,
Spain

CHARACTERIZATION AND PROPERTIES OF HARD COATINGS SPECIAL SESSION



Abstract Submission Deadline
22 March 2010

CHARACTERIZATION AND PROPERTIES OF HARD COATINGS (SS1)

The special session on “Characterization and properties of hard coatings” will cover the analytical and numerical solutions of the growth kinetics of simple and multicomponental hard coatings in different metallic substrates when are subjected to particular equilibrium as well as specific boundary conditions. Also, diverse techniques to characterize the mechanical, physical and chemical properties of hard coatings are included in this session.

Topics of the Session:

- Diffusion models used in the formation of hard coatings.
- Growth kinetics of multicomponent hard coatings.
- Evaluation of mechanical properties in hard coatings (in micro and nano scale).
- Physical properties of hard coatings obtained by diverse techniques.
- Corrosion resistance of hard coatings.
- Simulation of diverse properties of hard coatings by Finite Element Method.

ABSTRACTS SUBMISSION:

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



INVITED TALK

“High temperature behaviour of selected group IV metal nitrides hard coatings”

Prof. Tomas Polcar

Czech Technical University in Prague,
Czech Republic



INVITED TALK

“Gas Nitriding of Austenitic Stainless Steel for Biomedical Applications”

Prof. Huseyin Cimenoglu

Istanbul Technical University,
Turkey



INVITED TALK

“Characterization of Boron-Carbon-Nitrogen multilayers by several ion, electron and x-ray spectroscopies”

Dr. Ignacio Jimenez

Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC)
Spain

contact:

Prof. Iván E. Campos Silva

icampos@ipn.mx

Instituto Politécnico Nacional
SEPI-ESIME Zacatenco,
México

Dr. Ramón Escobar Galindo

rescobar@icmm.csic.es

Surface and Coatings Department
Material Science Institute of Madrid,
Spain



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

JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY

www.aspbs.com/jnn

(Selected Papers)

BOOK:

contributions will be selected for a monograph on ‘**CHARACTERIZATION AND PROPERTIES OF HARD COATINGS**’ by Springer in Germany



DSL-2010 SECRETARIAT AND MANAGEMENT:

Ironix Global Events Consulting Lda

www.ironix-conferences.com

contact@dsl2010-paris.com

www.dsl2010-paris.com