

INVITATION

CRP - Gabriel Lippmann, CRP - Henri Tudor and the Luxembourgish Fonds National de la Recherche are proud to introduce you to the International Colloquium on plasma processes and applications in Luxembourg.

Due to their capacity to propose a large functionality panel, plasma surface treatment and plasma surface deposition have a huge potential of developments in various industrial fields, such as mechanics, metallurgy, chemistry, optic, energy and environmental technology, life sciences, ...

Different topics linked with plasma coatings depositions and plasma surface modifications will be presented and discussed. This Colloquium will encompass different plasma processes from fundamental subjects to industrial implementation.

This colloquium program preview 6 sessions dealing with the following topics:

- Atmospheric and low pressure plasma corrosion protection
- Atmospheric plasma for adhesion promotion
- Atmospheric and low pressure plasma for hydrophobicity or hydrophilic surfaces
- Plasma application for cleaning and surface decontamination
- Microstructural and chemical characterization of plasma treated surfaces
- Industrial applications related to plasma surface technology

Beside, a first presentation for each session given by an invited speaker having recognized expertise in the topic, submitted presentations and exchange times around poster session will be organized to allow scientific, technical and human interaction between the attendees.

This event is an achievement from a Luxembourg research project "TRASU" whose title is "Development of Innovative Surfaces by Means of Optimized Plasma Techniques and Technology Transfer to Industries". Results obtained by the two research institutes during the 4 years of the project will be discussed in oral presentations and poster sessions.

We look forward to seeing you at the Plasma Days 2010 in Luxembourg-Kirchberg, LUXEMBOURG

CONFERENCE SCOPE

You will find hereby the six conference sessions covered by Plasma Days 2010 and their first invited speakers.

First session: *Designing low pressure processing for metal protection*
Dr Fabio Palumbo (Univ. of Bari – Italy)

Second session: *Elaboration of new types of adaptive surfaces by plasmopolymerisation: engineering of reversible adhesive*
Dr. Vincent Roucoules (Uni. of Mulhouse – France)

Third session: *Plasmachemical deposition of smart functionalities*
Pr. Jas-Pal Badyal (Univ. of Durham – UK)

Fourth session: *Plasma cleaning: a step toward a better understanding of basic mechanisms*
Dr. Thierry Belmonte (Inst. Jean Lamour – France)

Fifth session: *Microstructural and chemical characterizations of plasma treated surfaces*
Pr. J-J- Pireaux (Univ. of Namur – Belgium)

Sixth session: *Industrial applications of the plasma surface technology*
Dr. Ph. Harlet (ArcelorMittal Research – Belgium)

PROGRAM

July 5th, 2010

14:00 Opening ceremony
14:15-16:45 First session

July 6th, 2010

9:00-10:30 Second session
10:30-12:00 Poster session
13:30-15:00 Third session
15:00-17:00 Fourth session

July 7th, 2010

9:00-11:00 Fifth session
11:00-12:00 Poster session
13:30-16:00 Sixth session

CALL FOR ABSTRACT

Researchers – including PhD students – and industrial players are invited to present scientific results and applications on the theme of the conference. We encourage you to submit your abstract in line

Abstracts (max. 1 page incl. Illustration) should be written in English and should include name, address and telephone, as well as e-mail address of the contact author.

The scientific committee will review all incoming contributions. The texts of accepted papers will be published in a CD conference proceedings.

CALL FOR PAPERS – DEADLINES

Submission of abstract May 15th, 2010
Acceptance notification May 28th, 2010

Website: <http://plasmadays2010.lippmann.lu>
(available April 15th, 2010)