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MIATEC SCIENTIFIC COMMITTEE

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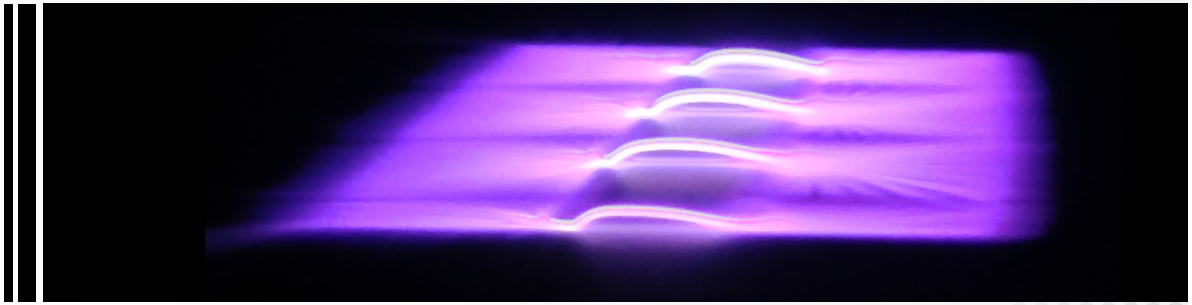
CIP 2017

21th INTERNATIONAL COLLOQUIUM ON PLASMA PROCESSES

MIATEC 2017

5th MAGNETRON ION PROCESSING & ARC TECHNOLOGIES EUROPEAN CONFERENCE



www.cip-miatec.com

FIRST ANNOUNCEMENT

26 - 30 June 2017

Nice, France

In connection with SVTM 2017, International Exhibition on Vacuum and Surface Engineering

Endorsed by IUVSTA

Organised by French Vacuum Society (SFV)

SFV Société Française du Vide

SFV Société Française du Vide

The **21st International Colloquium on Plasma Processes** (CIP) will be held jointly with the **5th Magnetron Ion processing and Arc Technologies European Conference** (MIATEC) in Nice, France under the sun of the French Riviera, from **June 26 to 30, 2017**. Both, CIP and MIATEC are biennial international conferences, organized by the French Vacuum Society (SFV) and devoted to the latest developments in plasma processing science and technology.

CIP provides an opportunity to present recent progress in the field of plasma processes from fundamental research to applications. The aim of the colloquium is to highlight some of the latest developments, recent issues and challenges for plasma processes in various industrial fields, such as: surface treatments, nanoscience, energy and environmental technology or life sciences.

MIATEC focuses on the advances in fundamental research and understanding of all PVD (Physical Vapor Deposition) processes treating a large panel of subjects from sputtering in noble and reactive atmosphere, to arcs and ion processing and finishing with thin film deposition and surface processing by PVD (Ion Beam Assisted Deposition, non-equilibrium low current arc discharges and HiPIMS – High-Power Impulsed Magnetron Sputtering).

This joint event will include plenary lectures, invited and keynotes conferences, as well as regular communications given as oral or as poster. **Short courses** on plasma science, PVD and related technologies are proposed as Tutorials, prior to the conference. These activities are scheduled during three days for the conference and one day for Tutorials aiming to improve the basic knowledge in the field and make a status of the research in the field of plasmas.

CIP-MIATEC 2017 will be organized jointly with the **SVTM 2017** *(Salon du Vide et des Traitements des Matériaux / International Exhibition on Vacuum and Surface Engineering)*, annual industrial exhibition on vacuum technologies and materials treatment that will bring together more than 120 companies very active in the field.

Thierry BELMONTE
Chair of CIP Steering Committee

Tiberiu MINEA
Chair of MIATEC Scientific Committee

Short Courses

Courses on plasma science and technology will be delivered for **three half-days** prior to the start of the CIP-MIATEC'2017 Conference.

These introductory courses will span topics ranging from basics of plasma physics and plasma surface interactions to plasma assisted deposition and etching processes, including their application in microelectronics, micro-nanotechnology, biomaterials and biosensors.

Student Awards

CIP is offering two student awards for the **best oral presentation and the best poster**.

The awards consist of certificates and a cash prize of €300 for the poster session category and 500€ for the oral presentation category.

A maximum of five finalists will be selected in each category. The selection of finalists and the award winners will be made by the steering and scientific committees based on scientific merit and originality of their work. See the website for details.

Nice: a multi-faceted city

The sun that shines 300 days a year, the breadth and wealth of the city's internationally-renowned history and culture, the shifting shimmer of its sea, its towering mountain peaks and astounding beauty, the warmth of its local accent or the dazzling lights that illuminate its nights: nobody knows exactly what lends Nice its unique light, yet all those who have set foot here retain the memory of a rare and precious moment in time, the memory of those who light the city from within, setting hearts alight and putting stars in visitors' eyes.

Prize for the Most Artistic Plasma Science Image

CIP is offering a prize for the most artistic plasma science image. Images must be submitted before March, 14th 2017.

Topics & Key Words

1. **Plasma sources and electrical discharges**: pulsed plasmas, HiPIMS, modular plasmas, advanced reactors…
2. **Plasma and process modeling**: Micro-discharges, Plasma jets, microwave microplasmas, Molecular dynamics, Monte Carlo methods, CFD approaches
3. **Plasma diagnostics and plasma processes**
4. **Plasma-deposited protective and tribological coatings**
5. **Plasma-deposited coatings for optical, electronical and other functionalities**: thermal, optical, electrical and other functional properties of plasma deposited thin films, micro and nanoscaled functional materials…
6. **Plasma for surface engineering**: surface treatment of polymers, glass, metals, micro and nano-structuration, functionalization
7. **Plasma for the life sciences and agriculture**: biocompatibility antimicrobial coatings, sterilization, functionalization of biomaterial surfaces, immobilization of biomolecules…
8. **Plasma and nanoscience**: Nanoparticles, nano-object, nanoarchitectures, self-assembly, MEMS, NEMS
9. **Plasma for solar energy conversion and environmental applications**
10. **Plasma and liquids**: Plasma Electrolytic Treatments, Submerged arcs, Laser in liquids
11. **Industrial plasma - Hot topics:** new R&D plasma prcessing

IMPORTANT DATES

September 2016	1st announcement
9 January 2017	Call for papers
19 March 14, 2017	Deadline for abstract submission
18 April 2017	Acceptance notification