

New Perspectives of Plasma Science and Technology

International Workshop for Students and Young Researchers

Brno University of Technology, Antonínská 1, Brno
Hotel Continental, Kounicova 6, Brno, Czech Republic
23 – 25 October 2007

The workshop will be organized in invited speakers, poster session, company evening and panel discussion. Posters on low-temperature plasma science and technology are invited in areas such as plasma diagnostics, modelling, surface treatment, deposition, thin film characterization, organic and inorganic films, hard films, hydrophilic and hydrophobic films, diamond-like carbon, bio-compatible films, layered structures, nanocomposite films, applications and devices. The official language of the workshop is English. The CD proceedings containing lectures, abstracts and posters as PDF files will be given to all regular participants at the workshop.

Invited speakers

Hirotsugu Yasuda (University of Missouri-Columbia, USA)

Magnetron-AF plasma polymerization: unique advantages

Riccardo d'Agostino (University of Bari, Italy)

Deposition of fluoropolymer films: low vs. high pressure glow discharges

John Robertson (Cambridge University, UK)

Deposition of diamond-like carbon

Norihiro Inagaki (Shizuoka University, Japan)

Role of plasma in surface and interface technology

Marcela Bilek (University of Sydney, Australia)

Covalent attachment of bioactive proteins to plasma treated polymeric surfaces

Yvan Segui (CNRS Toulouse, France)

Plasma deposition of organosilicon thin films containing silver particles

Hynek Biederman (Charles University, CR)

Recent advances in sputtering of polymers

Jan Kocka (Institute of Physics, CR)

PECVD and nanocrystalline silicon

Jaroslav Vlcek (University of West Bohemia, CR)

Reactive magnetron sputtering of hard Si-B-C-N films with a high-temperature oxidation resistance

Jiri Vyskocil (HVM Plasma, CR)

PVD and PACVD films for automotive industry and expected trends

Mirko Cernak (Masaryk University, CR)

Low-cost high-speed plasma treatment of polymer materials

Petr Spatenka (University of South Bohemia, CR)

Photocatalytic titanium dioxide and its applications

Vladimir Cech (Brno University of Technology, CR)

Thin films engineered by PECVD

Organizer: Brno University of Technology

Workshop secretary: TA-SERVICE

For full details and to submit abstracts

<http://www.ta-service.cz/plasma>

Abstract submission deadline: 15 July 2007

Best poster awards

On the basis of the scientific relevance of their contribution, three Best poster awards will be selected.