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16th International Symposium on Plasma Chemistry

22-27 June 2003, Taormina, Italy

ISPC is a biennial international conference with topics encompassing the whole area of plasma chemistry. The aim of the symposium is to present the recent progress in plasma chemistry and its applications. The symposium will be organized into plenary lectures, parallel oral sessions (invited and contributed presentations), and poster sessions. The whole area of plasma processing will be covered, from thermal to nonequilibrium plasmas, and from fundamentals to applications and engineering. In particular, the following sessions are being planned:

- fundamentals of plasma-surface interactions
- gas-phase plasma diagnostics
- modelling in plasma chemistry
- non-equilibrium effects in plasma chemistry
- plasma sources
- plasma processing for microelectronics
- PECVD/treatment of semi-conductors and related materials
- plasma deposition of inorganic and hard coatings
- plasma deposition and treatment of polymers
- clusters, particles, and powders
- plasma chemical synthesis
- plasma spray and thermal plasma material processing
- hybrid plasma/radiation processes

Contributions are solicited in application areas such as biomaterials, waste treatment, barrier and protective coatings, dielectric barrier discharges, plasma welding, microelectronics, hard coatings, ophthalmics, tribology, and others.

The symposium will also include a plasma equipment exhibition and will be preceded by two IUPAC summer schools. The IUPAC Summer Schools on Plasma Chemistry, to be held 18-20 June 2003, are addressed to graduate students, scientists, technical staff, and managers interested in an updated view of modern plasma applications. The schools are as follows:

Thermal Plasma Processing of Materials (Chaired by Professor P. Fauchais, University of Limoges, France), which will cover the following: introduction, overview of industrial plasma processes, thermal plasma thermodynamic and transport properties, plasma generation, plasma characterization, plasma as a processing medium (interaction with a gas, interaction with a condensed material, and interaction with a dispersed medium).

Cold Plasma Processing of Materials (Chaired by Professor R. d'Agostino, University of Bari, Italy), which will cover the following: fundamentals, plasma chemistry of deposition treatment and etching processes, reactor architecture, properties of PECVD coatings and plasma treated surfaces, plasma diagnostics, surface diagnostics, applications of plasma processed materials.

One additional **School on Plasma Processes for Microelectronics** (Chaired by Professor F. Fracassi, University of Bari, Italy) will also be organized prior to the symposium. This course will cover the most important issues related to dry etching and plasma enhanced chemical vapor deposition, with particular consideration of new and envisaged processes utilized in semiconductor manufacturing. The school is particularly suggested for process engineers, technical staff, and managers in microelectronics.

See Calendar on page 30 for contact information

 www.ispc16.org

XVII Mendeleev Congress on General and Applied Chemistry

21-26 September 2003, Kazan, Russia

Mendeleev Congress on General and Applied Chemistry usually takes place every five years and is the most prestigious national meeting of Russian chemists. The 1st Mendeleev Congress on General and

Applied Chemistry was held in St. Petersburg in 1907 and was dedicated to the memory of D. I. Mendeleev. The XVI Mendeleev Congress on General and Applied Chemistry took place in St. Petersburg in 1998 and was dedicated to 250 years of chemistry research in Russia. The XVII Mendeleev Congress, which will be presided over by Professor Oleg M. Nefedov, will be held in Kazan, a famous scientific, industrial, and cultural center on the banks of the Volga where the East meets the West. Kazan is a nearly thousand-year old city considered to be a cradle of Russian organic chemistry.

The main goals of the congress are to (i) determine how to develop chemistry, chemical technology, and chemical education; (ii) integrate academic, applied, and university science; (iii) discuss how to use chemistry to solve important economic, ecological, and social problems; (vi) examine the urgent problems and prospects of chemical science; and (vii) broaden interdisciplinary and international co-operation.

The scientific program will cover the following areas:

- Chemical science: the most important achievements and prospects for high technologies and advanced materials
- Supramolecular chemistry and nanomaterials
- Advanced materials
- Chemistry and environmental problems; analysis and control of environmental objects
- Energy and resource saving chemical technologies
- Chemical aspects of the life science
- Chemical informatics
- New instrumental methods in chemistry
- Problems of chemical education
- History and achievements of Russian chemists

Approximately 1500 scientific participants are expected to attend the Congress.

The following meetings will be held within the framework of the congress:

- Russian-American Symposium on Chemical Education
- VII International Conference on Chemistry of Carbenes and Related Intermediates
- Symposium dedicated to the centenary of chromatography discovered by M. S. Zvet
- Roundtable Discussion on "State and Development of Chemical Science in the Former Soviet Union Countries"

Important Dates:

Deadline for Registration Forms and Submission of Abstracts, **1 March 2003**

Deadline for Advance Registration fees, **1 June 2003**

See Conference Calendar for contact information



www to be announced

Second International Conference on New Biomedical Materials

5-8 April 2003, Cardiff, Wales, United Kingdom

This conference will bring together scientists who have contributed numerous innovative and exciting advances in the field of biomedical materials. Diverse topics will be covered including studies of cell interactions with biomaterials. The assessment of the potential applications for the development of new biomaterials, tissue engineering, and future medical devices and biosensors will be discussed. It will also provide an opportunity to discuss the latest developments in the field and the vision for the future. By linking basic and applied research together this conference is aimed at the stimulation of activity and research on biomedical materials. The interdisciplinary nature of the conference will encourage scientific interchange and cross-fertilization of ideas.

Topics to be covered include:

- 1 **The Need:** orthopaedic applications; cardiovascular applications; haemocompatible materials; extracorporeal systems; artificial organs, wound dressings; drug delivery, dental and oral healthcare, and biosensors
- 2 **Basic Research Studies:** cell interactions with surfaces, such as bones, polymers; cells involved in wound healing cell movement; cell interactions with other cells; molecular recognition, peptide mimicry; drug delivery, surface plasmon resonance studies; atomic force microscopy; and vibrational spectroscopy
- 3 **Applied Research Studies:** bone research; cement; hip replacements; hearing aids; cardiovascular; wound dressings, new smart materials, artificial organs, and biosensors

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