

## E-MRS 1996 Spring Meeting to Take Place in Strasbourg in June

E-MRS (European Materials Research Society) 1996 Spring Meeting is scheduled for June 4–7, 1996 at Congress Center, Palais de la Musique et des Congrès, Strasbourg, France.

The conference program includes 12 symposia and two round-tables. Symposium A, **High-Temperature Electronics: Materials, Devices, and Applications**, will review recent progress that has been made in the development of new materials and device technologies. Symposium B, **Thin-Film Materials for Large Area Electronics**, will emphasize poly- and microcrystalline silicon for thin-film transistors (TFTs), and other materials and processes related to TFTs, displays, and sensors. Symposium C on **UV, Blue and Green Light Emission from Semiconductor Materials** will bring together crystal growers, chemists, physicists, and device scientists working in II-VI (ZnSe-based structures), III-V (GaN-based devices), and frequency doubling devices in order to discuss the problems dealing with the development of visible optoelectronic devices. **Group IV Heterostructures, Physics, and Devices (Si, Ge, C,  $\alpha$ -Sn)**, the topic of Symposium D, will give particular attention to recent achievements using CVD techniques as well as to the physics of novel structures and devices in general. **Magnetic Ultra Thin Films, Multilayers, and Surfaces**, Symposium E, will address the theories, experiments, and techniques for the investigations and understanding of the behavior of magnetic surfaces, interfaces, and nanostructures now extended beyond metallic multilayers to novel low-dimensional structures such as nanowires, magnetic dots, and spin injection structures. Fundamental aspects of high-temperature

superconductor thin-film growth methods; growth mechanisms; defect generation and their relation to the quality of films, heterostructures, and interfaces comprise the focus of Symposium F, **High-Temperature Superconductor Thin Films: Growth Mechanisms, Interfaces, Multilayers**. This symposium will feature a special session on "MOCVD of High-Temperature Superconductors and Related Oxide Thin Films." Symposium G on **Nonlinear Optical and Optoelectronic Organic Materials** will cover the areas of materials synthesis and processing; characterization of electronic structure and nonlinear and optoelectronic responses; and device design, fabrication, and testing. **Laser Processing of Surfaces and Thin Films**, Symposium H, will particularly emphasize surface modification with pico- and femtosecond laser pulses, deposition of thin films, cluster production, nanostructure manufacturing, surface cleaning, analysis of surfaces and multilayers, and the development of *in situ* analytical techniques. New trends in ion beam processing of semiconductors and the current challenges faced by microelectronic device manufacturing make up the particular emphasis of Symposium I on **New Trends in Ion Beam Processing of Materials**. Symposium J on **Advanced Materials for Interconnections** will focus on the deposition, processing, and characterization of low-resistivity conductors, low permittivity polymeric and inorganic materials, and thin-film barriers which are compatible with advanced high performance on-chip interconnects. Modifications for fs-laser, ion and cluster beam-induced phenomena is the focus of Symposium K, **Nanometric Phenomena Induced by Laser, Ion, and**

**Cluster Beams**. Symposium L, **New Developments in Porous Silicon: Relation with Other Nanostructured Porous Materials**, will provide an up-to-date overview of the different aspects and developments concerning porous silicon. It will bring together the semiconductor community studying porous silicon with key researchers in the field of nanoporous media involved, for instance, in super- and subcritical drying techniques and theory; surface modification; stabilization methods; impregnation to form nanocomposites; and novel characterization techniques for structure as well as for mechanical, thermal, optical, and electrical properties.

The round-tables that will run during the conference are "Future Issues of GaN and SiC," moderated by H. Morkoc—United States, and "Optical Communication: Trends in Photonic Technologies," moderated by P. Glasow—Germany.

Speakers in the Plenary Sessions are **Dieter Bäuerle** (Johannes-Kepler Universität, Linz, Austria), whose topic is "Laser Material Processing: Recent Developments"; **Louis Bellemin** (EC Brussels, Belgium), whose topic is to be announced; **Praveen Chaudhari** (IBM T.J. Watson Research Center—United States), whose topic is "Industrial Research and Development: A Commodity in the International Market"; **Georges Metakides** (EC Brussels, Belgium), whose topic is "Strategic Policies of the European Commission in Information Technology"; **G. Prinz** (Naval Research Laboratory—United States), whose topic is "Recent Developments in Magneto-Electronics"; and **Stan Veprek** (Technical University Munich—Germany), whose topic is "Electronic and Mechanical Properties of Nanocrystalline Composites When Approaching the Molecular Size: Quantum Localization and Superhardness."

The language of the conference is English and a proceedings volume will be published by Elsevier/North Holland.

For a registration form and further information, contact P. Siffert, E-MRS 1996 Spring Meeting Registration, BP 20, 67037 Strasbourg Cedex 2, France; fax 33-88-10-62-93. For visa assistance, contact, as soon as possible, Attention: Visa Assistance, E-MRS 1996 Spring Meeting, BP 20, 67037 Strasbourg Cedex 2, France; fax 33-88-10-62-93; e-mail EMRS@FRCPN11.IN2P3.FR.

### International Conference on Radioactive Waste, Storage, Transportation, Recycling, Environment, and Human Impact

St. Petersburg (Russia) • October 14–18, 1996

Sponsored by Russian Materials Research Society (MRS-Russia) and European Materials Research Society (E-MRS)

#### PROGRAM

- Symposium A: Management of the Impact System Upon Radioactive Waste Utilization, Storage, and Transportation
- Symposium B: Monitoring and Problems of Radiation Protection
- Symposium C: Key Problems of Decontamination and Radiation Materials Reprocessing: Facilities and Procedures
- Symposium D: Scientific and Technological Problems of Removal from Service of Stationary and Transportation Units Equipped with Nuclear Power Reactors
- Symposium E: Materials for Constructions (Containers) Ensuring Long-Time and Secure Storage of Radioactive Waste
- Symposium F: Storage and Transportation/Technological Schemes of Handling Used Nuclear Fuel
- Symposium G: Education and Training for Personnel Working with Radioactive Waste

For further information, contact Prof. I.V. Gorynin, phone 7-812-274-37-96 or 7-812-274-77-56 or 7-812-274-15-22; fax 7-812-274-17-07; or e-mail kkv@prometey2.spb.su.



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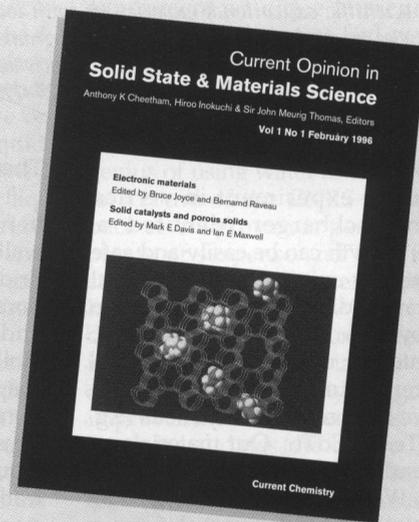
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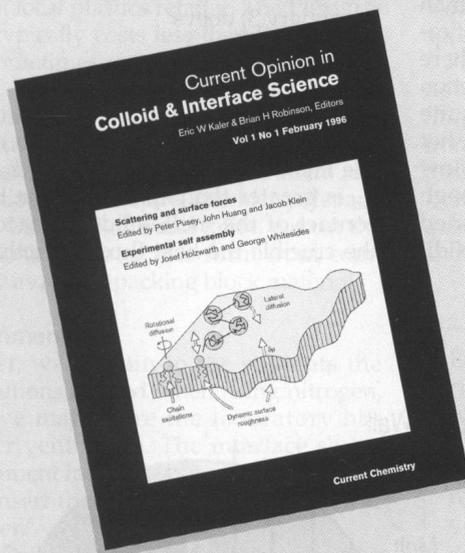
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