

1990 E-MRS Spring Meeting Set for Strasbourg

The 1990 Spring Meeting of the European Materials Research Society will be held May 29 through June 1 at the Council of Europe facilities, Strasbourg, France. This meeting especially seeks to focus "on creating the synergy between interdisciplinary, innovative technologies, on diffusing and exchanging information and promoting technology transfer towards industry."

Papers are being solicited for the five symposia described below. Abstracts are due **March 1, 1990** and can be submitted to the symposium organizers, also identified below.

A Summer School on Metal Matrix Composites is being planned May 25-29, prior to the meeting. K. Kainer, Materials Department, Claustal University, is the organizer of the summer school. More information will be available in upcoming E-MRS conference announcements.

For more information or to register for the 1990 E-MRS Spring Meeting contact:

Conference Secretariat
Paul Siffert
Centre de Recherches Nucléaires
E-MRS 1990 Spring Conference
B.P. 20
F-67037 Strasbourg Cedex
France
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Symposium A—High T_c Superconductor Materials

This symposium will highlight recent developments in the materials science and physics of high T_c superconductors as well

as applications. Topics will range from fundamental understanding of the physical properties of high T_c superconducting materials to the assessment of high T_c thin films and bulk material for device and other applications. Guideline topics for papers include: emerging materials; structure-properties relationship; bulk material, microstructure and applications; single crystals; thin films, preparation, patterning and devices; physical properties; and characterization of high T_c materials.

Organizers:

H.-U. Habermeier, Max-Planck-Institut für Festkörperforschung, Heisenbergstrasse 1, D-7000 Stuttgart 80, W. Germany; telephone (49) 711 6860 231; fax (49) 711 6874 371.

E. Kaldis, Laboratorium für Festkörperphysik, ETH - Honggersberg/HPF, CH-8093 Zurich, Switzerland; telephone (41) 1 377 22 31; fax (41) 1 371 5989.

Symposium B—Metal Matrix Composites

In recognition of recent material achievements and current industrial interest in this subject, the symposium will be the first Pan-European meeting directed solely to metal matrix composites. The symposium will cover all aspects of MMCs and will be divided into five separate sessions:

- Manufacturing techniques: liquid state and solid state processing, preform technology;
- Interfacial phenomena: wetting; thermal stability; characterization;
- Mechanical properties: static and dynamic testing, defect tolerance, NDE;

- Post production processing: forming, machining, joining, and
- Applications: components and service experience.

Organizers:

Geoff Chadwick, Hi-Tec Metals R&D Ltd., Millbrook Close, Chandlers Ford, Southampton, SO5 3BZ, England; telephone (44) 703 255510; fax (44) 703 267607.

Ludo Froyen, Departement Metaalkunde, Katholieke Universiteit Leuven, 3030 Heverlee, Belgium; telephone (32) 16 22 09 31; fax (32) 16 20 79 95.

Tony Bunsell, Centre des Matériaux, Ecole Nationale Supérieure des Mines de Paris, 91003 Evry Cedex, France; telephone (33) 1 60 76 30 15; fax (33) 1 60 88 47 57.

Symposium C—Magnetic Thin Films, Multilayers and Superlattices

This symposium will bring together scientists interested in the experimental and theoretical advances in this area of materials science, from both a fundamental as well as applied research point of view. Contributed papers are solicited in, but not limited to, the following areas:

- Growth and characterization;
- Magnetic and magneto-optic properties; surface and interface anisotropies;
- Spectroscopic methods: (spin-polarized) electron, neutron, Mössbauer, optical and synchrotron radiation studies;
- Magnetic imaging and domain structure;

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- Theory: band structure and related properties, anisotropy, collective phenomena; and

- Applications of magnetic and magneto-optic thin films and superlattices.

Organizers:

A. Fert, Laboratoire de Physique des Solides, Université de Paris Sud, F-91405 Orsay, France; telephone (33) 1 69 41 53 24; fax (33) 1 69 41 60 86.

G. Guntherodt, 2. Phys. Institut der RWTH Aachen, D-5100 Aachen, W. Germany; telephone (49) 241 807055; fax (49) 241 803599.

Symposium D—Metallurgical Coatings and Materials Surface Modifications

This symposium aims to bring together participants from a wide cross section of activity in the coatings and surface modifications fields in order to foster an interchange of ideas and expertise. The symposium will be devoted to modern coatings processes, surface modification techniques, applications and characterization methods. Areas of interest include but are not limited to:

- Physical vapor deposition;
- Chemical vapor deposition;
- Plasma spraying and related techniques;
- Surface treatments by laser, electrons and ion beams;
- Hard coatings including diamond like materials;

- Tribological coatings;

- Surface treatment for corrosion resistance;

- New materials obtained by deposition techniques (metastable alloys); and

- Physical and mechanical properties determinations.

Organizers:

J. Spitz, Centre d'Etudes et de Recherches sur les Matériaux, CENG, BP 85 X, 38041 Grenoble Cedex, France; telephone (33) 76 88 39 09; fax (33) 76 88 51 52.

H. Hintermann, CSEM, P.O. Box 41, Rue Breguet 2, 2000 Neuchatel 7, Switzerland; telephone (41)38 24 01 61; fax (41)38 25 21 88.

B. Heinrich, Physics Department, Simon Fraser University, Burnaby, BC V5A1S6, Canada; telephone (1) 604 291-4402; fax (1) 604 291-3592.

E.E. Marinero, IBM Research Division, Almaden Research Center, 650 Harry Road, K32/803D, San Jose, California, 95120-6099, U.S.A.; telephone (1) 408 927-2016; fax (1) 408 927-2100.

Symposium E—Surface Processing & Laser-Assisted Chemistry

This symposium will cover all aspects of energy beam materials processing, from basic studies to novel phenomena for applications and devices. It will focus on ion, electron, and photon beam assisted chemistry for localized and low temperature processing. Surface, interface and thin film

reactions of dielectrics, semi- and superconductors, metals, organic and biological materials will be emphasized in terms of fundamental understanding and assessing the criteria for future practical applications. Specific topics will include:

- New organometallic precursors for surface processing;

- Kinetic studies of beam-stimulated reactions;

- Deposition, growth, doping and patterning of thin films;

- Ablation, etching, and cutting;

- Interface control and multilayers;

- Process diagnostics and in-situ analysis;

- Novel approaches for integrated processing; and

- Industrial applications and device fabrication.

Organizers:

Ian W. Boyd, Electronic & Electrical Engineering, University College London, Torrington Place, London WC1E 7JE, United Kingdom; telephone (44) 1 380 7304; fax (44) 1 387 4350.

Eric Fogarassy, Laboratoire PHASE, C.R.N., 23, rue du loess, 67037 Strasbourg Cedex, France; telephone (33) 88 28 62 57; fax (33) 88 28 09 90.

Michael Stuke, Max-Planck-Institut für Biophys. Chemie, P.O. Box 2841, D-3400 Göttingen, W. Germany; telephone (49) 551 201 338/563; fax (49) 551 201 530. □

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