

E-MRS Plans 1989 Spring Meeting, Issues Call for Papers

The 1989 Spring Meeting of the European Materials Research Society is scheduled for May 30-June 2 at the Council of Europe, Strasbourg, France. Five technical symposia are planned: Third International Symposium on Silicon MBE; Science and Technology of Defects in Silicon; Acoustic, Optical, Thermal Wave Characterization of Material; Beam Processing and Laser Chemistry; and Biomaterials. A course on High Tech Biomaterials in Hard Tissue Repair or Replacement will run parallel to the E-MRS Meeting. [See details in the November MRS BULLETIN, p. 64.]

To obtain information about the meeting or to register, contact the Secretariat, Attention P. Siffert, Centre de Recherches Nucléaires, Laboratoire Phase, F-67037 Strasbourg Cedex, France; telephone 88 28 65 43; fax 88 28 09 90; telex 890 032 CNRS CRO.

Papers are being solicited for the 1989 E-MRS Spring Meeting. The deadline for abstract submission is **March 1, 1989**. For additional details about symposium topics and abstract submission contact one of the symposium chairs listed below.

Third International Symposium on Silicon MBE

This symposium will deal with single-crystal growth, by molecular beam epitaxy, of materials compatible with silicon, their characterization, and device application. Submissions on surface physics and related vacuum synthesis techniques such as solid phase and ion beam epitaxy are encouraged. Discussions will cover:

- Homoepitaxy—preparation, characterization, alternative growth methods;
- Doping—co-evaporation, implantation, solid phase MBE;
- Heteroepitaxy—nucleation (including III/V on Si), mismatch accommodation, germanium silicon, silicides, insulators;
- Quantum wells and superlattices—theory, properties, ultrathin periods;
- Devices—work to date and prospects for exploiting MBE capabilities;
- Apparatus—scaling towards production, *in situ* monitoring, new advances.

Chairs:

E. Kasper
AEG Research Center
Sedanstr. 10
D-7900 ULM, W. Germany

E.H.C. Parker
University of Warwick
Dept. of Physics
Coventry, CV4 7AL, United Kingdom

Science and Technology of Defects in Silicon

Topics in this symposium will range from the fundamental characterization of physical properties to the assessment of materials for device applications. Scheduled sessions will span:

- Crystal growth—homo- and heteroepitaxial, SOL, SIMOX;
- Process-induced defects—etching, gettering, heat-treatment, lithography, implantation;
- Topography—imaging, mapping;
- Hydrogenation of silicon—passivation processes;
- Impurities—fast diffusing metals, light and exotic impurities;
- Complexes and interactions between impurities—impurity pairs, thermal donors, multistability.

Chairs:

C.A.J. Ammerlaan
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University of Amsterdam
Postbus 20215
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Acoustic, Optic, Thermal Wave Characterization of Material

Chairs:

C.M. Crean
National Microelectronics Research
Center

University College, Lee Maltings
Prospect Row
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M. Locatelli
Institut de Recherche Fondamentale
Centre d'Etudes Nucléaires de
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F-38041 Grenoble Cedex
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J. McGilp
Trinity College
Dublin, Ireland

Beam Processing and Laser Chemistry

This symposium will consider both practical and theoretical aspects of energy beam materials processing. A large degree of focus will be given to the use of ion, electron and photon beams, and on laser-assisted process chemistry. Thin films, surface and interface reactions, and bulk phase transformations will be emphasized, in addition to practical technological details and the criteria for present and future applications. Topics include:

- Effect of energy beams on surface and interface reactions;
- Bulk and surface transformations induced by energy beams;
- Studies of kinetics and thermodynamics of the stimulated reaction process;
- Deposition, growth and patterning of thin films;
- Applications and technology of energy beams including *in situ* processing and device manufacturing.

Chairs:

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Biomaterials

Chairs:

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