

MRS-Europe Report

Papers sought for Spring Meeting; plans underway for Fall Meeting

MRS-Europe has announced its plans to conduct both a Spring and a Fall Meeting in 1985, and is currently soliciting abstracts for papers to be presented at its Spring Meeting. Both the Spring and Fall Meetings will be held at the Council of Europe in Strasbourg, France, and are expected to provide a thorough international review of research techniques through contributed and invited oral and poster presentations.

The Spring Meeting will be held May 13-15 and the Fall Meeting will be held November 25-29.

Spring Meeting Call for Papers

The Spring Meeting in Europe features three symposia, spanning theory as well as current research applications. **The deadline for abstracts for each symposium is March 15.**

Symposium I on *Energy Beam-Solid Interactions and Transient Thermal Processing* will emphasize beam-solid interactions and formation of thin layers for device applications. Papers are sought specifically on fundamental aspects of energy beam interactions with solids; transient thermal processing of materials; laser photochemical processing and electron beam-surface interactions; fabrication techniques of thin layers of SOI and three-dimensional integrated circuit technologies; impurity incorporation and associated instabilities; and defect formation and characterization.

Invited speakers include D. Bäuerle of Johannes Kepler University (laser chemical processing), G. Bomchil of CNET (formation and oxidation of porous silicon for SOI technologies), A.G. Cullis of the Royal Signals and Radar Establishment (high-speed growth from the melt), D. J. Godfrey of GEC (electron-beam induced recrystallization of SOI films), D. Hulin of Ecole Polytechnique (silicon irradiated with femtosecond pulses), T. I. Kamins of Hewlett-Packard (MOS transistors in beam-recrystallized silicon films), M. von Allmen of the University of Bern (metastable materials made by laser irradiation), and others.

Abstracts for oral and poster presentations should be sent to chairmen V. T. Nguyen, CNET Grenoble, B. P. 98, F-38243 Meylan, France (phone: [76] 5140 69) or A. G. Cullis, RSRE, St. Andrews Road, Malvern, WR 14 EPS, England (phone: [0684] 52733, ext. 2509).

Symposium II on *Materials Under Extreme Conditions* will explore the properties and production of materials under conditions such as microgravity, high pressure, and low temperature. Topics expected to be covered include the effect of gravity on fluid flow in liquids (especially melts), crystal growth and solidification processes at reduced gravity; production of composite materials in space; phase transitions at high pressure; transport and mechanical properties at low pressure; and phase transitions at low

temperatures. Invited speakers at the symposium include J. M. Haynes of the University of Bristol and R. Nitsche of the University of Freiburg.

Abstracts for oral or poster presentations on microgravity should be sent to chairmen H. Ahlborn, Universität Hamburg, Fachbereich Erziehungswissenschaft, Von Melle Park 8, D-2000 Hamburg, West Germany (phone: 41232127, telex: 214732), or H. Fredriksson, Royal Institute of Technology, P. O. Box S-10044, Stockholm, Sweden (phone: 08 78 7 7869). Abstracts on high pressure and low temperature should be sent to chairman E. Luscher, Technische Universität, Physik Department, D-8046, Garching, West Germany (phone: [089] 32 09 2451).

Symposium III on *Semiconductor Quantum Well Structures and Superlattices* is devoted to a new approach of semiconductor materials science, based on the fabrication and study of extremely thin heterojunction layers. Topics of interest include material growth (MBE, MOCVD, MOMBE), materials characterization (transport and optical properties, TEM, STEM, x-ray), novel structures (strained epitaxial layers, Si/Ge), novel physical effects, and novel devices. Nine invited speakers from France, Japan, United States, England, and West Germany will participate.

Abstracts for oral or poster presentations should be sent to chairmen K. Ploog, Max Planck Institut für Festkörperphysik, Heisenbergstrasse 1, D-7000 Stuttgart 8, West Germany (phone: [0711] 78301, telex: 7-255555), or Nuyen T. Linh, Laboratoire Central de Recherches, Thomson-CSF, F-91401 Orsay, France (phone: [6] 019 70 00, telex: TCSF YZ 204780 F).

Fall Meeting Status

The Fall Meeting on *Advanced Materials Research and Development for Transport* will also feature three symposia: Light Metals (Symposium A), Composites (Symposium B), and Ceramic Coatings for Heat Engines (Symposium C). Details of this meeting will be provided in an upcoming issue of the BULLETIN. For general information on the meeting, contact general chairman W. J. G. Bunk, D. F. V. L. R., Postfach 906058, D-5000 Köln 90, West Germany (phone: [02203] 601 1, telex: DFV 887 44 33), or co-chairman J. G. Wurm, Commission of the European Communities, 200 rue de la Loi, B-1049 Brussels, Belgium (phone: [00] 235 52 90, telex: COMEU B 21877).

For specific program details, contact individual symposia chairmen. Symposium A: R. J. H. Wanhill, National Aerospace Laboratory, Voorsterweg 31 Noordoostpolder, NL 8300 AD Emmeloord, The Netherlands; Symposium B: P. Lamicq, SEP B. P. 37, F-33165 St. Medard-en-Jalles, France (phone: [56] 34 84 90); or Symposium C: I. A. Kvernes, CIIR Forskningsv. 1, P. B. 350 Blindern, N-Oslo-3, Norway.

DOE Publishes Annual Materials Sciences Programs Report

A report summarizing the Department of Energy basic materials research underway as of September 30, 1984 is now available from the DOE Division of Materials Sciences. The report gives investigator name(s), phone number(s), research project title, funding level, and scientific activities for each on-going project at national laboratories, universities, industrial corporations, and not-for-profit institutions. Also provided are descriptions of 15 special DOE centers that are operated for collaborative research. The report is indexed according to investigators, materials,

techniques, phenomena, and environment. The organizational structure and Division personnel are also identified.

A limited number of copies may be obtained by calling (301) 353-3427 or writing to the Division of Materials Sciences, ER-13, Mail Stop G-226, GTN, U.S. Department of Energy, Washington, DC 20545, or by contacting the National Technical Information Service, U. S. Department of Commerce, Springfield, VA 22161. Ask for Report DOE/ER-0143/2, "Materials Sciences Programs, Fiscal Year 1984."