

Contributions Sought for IBMM 86

The International Conference on Ion Beam Modification of Materials (IBMM 86) will be held at the Hotel Perla Jonica, Catania, Italy, June 9-13, 1986. Following the established scope of this series of Conferences, IBMM 86 will cover ion beam modification of metals, semiconductors, insulators, ceramics and polymers. MRS is a cosponsor of this important meeting, which takes place every two years to review major developments and directions in ion beam modification. The following topics will be included:

- energy deposition, ranges, disorder, sputtering;
- ion implantation in metals: modification for corrosion, fatigue, wear; superconductivity; medical applications;
- implantation in semiconductors: high dose rate effects, shallow implants, MeV implants, optical properties of heavily implanted semiconductors, waveguides, implantation in superlattice structures;
- amorphization by ion beam, properties

of the amorphous phases, diffusion and impurity behavior, ion beam induced crystallization, rapid thermal annealing, stress in implanted layers;

- ion beam mixing: matter transport, metastable phases, interface modification in metal/insulator system, recoil implantation;
- ion implantation in insulators: magnetic materials, glasses, optoelectronic materials, radiation damage in polymers, astrophysical applications;
- reactive ion etching, ion beam lithography, ion beam assisted deposition, ion cluster beam deposition, chemical modification, ion beam induced desorption.

Deadline for submission of abstracts is **December 30, 1985**. For further information contact Emanuele Rimini, Dipartimento di Fisica, Corso Italia, 57, 195129 Catania, Italy, telephone 095 377061. See additional information on the meeting in up-coming issues of the **BULLETIN**.

Papers Sought for International Symposium on the Durability of Glass Fiber Reinforced Concrete

An international symposium devoted to durability of glass fiber reinforced concrete (GFRC) and related composites will be held at the Holiday Inn Mart Plaza, Chicago, November 13-15, 1985. The Symposium is sponsored by the Prestressed Concrete Institute (PCI), and cosponsored by the Materials Research Society, the American Concrete Institute, and the American Ceramic Society.

Papers dealing with GFRC durability are solicited. The general topics of concern include history and present utilization of GFRC as influenced by durability considerations; the technology of alkali-resistant fiberglass and relevant aspects of cement technology; reinforcement mechanisms in GFRC composites; mechanisms involved in possible loss of strength, ductility, or impact resistance on exposure of GFRC; test methods for evaluating GFRC

durability; and new technologies designed to limit degradation of properties, including new glasses, modified sizings and coatings, and new or modified matrices.

Titles of prospective papers and 300-400 word summaries should be sent to Prof. Sidney Diamond, Program Chairman, School of Civil Engineering, Purdue University, West Lafayette, Indiana 47907, to arrive before **August 15, 1985**. Papers will be selected for the final program shortly after that date. Manuscripts of the completed papers will not be required until after the Symposium.

For information concerning organizational details of the Symposium, consult Sidney Freedman, Director, Producer Member Services, Prestressed Concrete Institute, 201 N. Wells St., Chicago, Illinois 60606.

Northern California Section Hosts Workshop on Thin Dielectrics

MRS Northern California Section (NorCal MRS) will host a workshop on "Thin Dielectrics for Silicon VLSI Devices" on June 26, 1985 from 1-5 p.m. at Xerox Palo Alto Research Center. The purpose of the workshop is to draw together a community of interest from around the Silicon Valley on this key aspect of VLSI technology. Attendees will be encouraged to consider the formation of an ongoing working group which will coordinate a detailed examination of the materials aspect of this dielectric formation testing and reliability under the sponsorship of the NorCal MRS.

The speakers for this workshop are Bruce Deal of Fairchild R&D, Chenming Hu for the Electrical Engineering and Computer Science Department at the University of California-Berkeley, William Cox from the non-volatile memory group at Advanced Micro Devices, and Anjun Bhattacharyya of the Philips Research Labs at Signetics. They will discuss the growth kinetics and characteristics of thin oxides of silicon, breakdown characteristics, process controls for ultra-thin, tunnel oxides, and novel, multi-step oxidation process.

The meeting will also consider the election of officers and funding for the local section and plans for further activities.

For further information on this event and other activities of NorCal MRS, contact Michael Current, Integrated Circuit Laboratory, Xerox Palo Alto Research Center, 3333 Coyote Hill Road, Palo Alto, CA 94304; telephone (415) 494-4535.

To place a
Call for Papers Notice
in the **MRS BULLETIN**,
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