

E-MRS Announces Summer School on Nuclear Physics Applications in Materials Science

European MRS has announced a summer school on Nuclear Physics Applications in Materials Science. E-MRS is one of the cosponsors of this NATO Advanced Study Institute to be held in Viana Do Castelo, Portugal, September 6-18, 1987.

Nuclear physics studies of materials are becoming increasingly important in both basic and applied research. Characterization and production, very broad and sophisticated fields of research, require joint research programs and discussions among scientists active in both areas. Nuclear Physics Applications in Materials Science will bring together scientists active in both hyperfine interactions and ion beam modification in order to discuss technologically relevant results and stimulate new re-

search in metals; in bulk properties of semiconductors and insulators; and in surfaces, interfaces, and thin films. A team of 15 lecturers from 9 countries is scheduled to present the following program:

- Bulk Metals
Metastable Alloys Formed by Ion Beam Mixing, M-A. Nicolet (U.S.)
- Quantum Diffusion of Light Interstitial Particles Studied by PAC and SR, A. Weidinger (W. Germany)
- Channeling Radiation in Materials Systems, J.U. Andersen (Denmark)
- Defects and Impurities in Metals, R. Vanden (W. Germany)
- Spin Dynamics of Local Moments in Metals, D. Riegel (W. Germany)
- Amorphization by Ion Implantation, L. Thome (France)
- Bulk Semiconductors and Insulators
Optical Studies of Semiconductors and Insulators, M.F. Thomaz (Portugal)
- Rapid Thermal- and Laser-Annealing of Semiconductors, B.J. Sealy (U.K.)

Superlattices and Future Applications, S.T. Picraux (U.S.)

Properties of Ion Implanted Insulators, P. Mazzoldi (Italy)

High Dose Ion Implantation, P. Siffert (France)

• Surfaces, Interfaces, and Thin Films
TDPAC and ME Studies of Surfaces and Interfaces, G. Schatz (W. Germany)

Irradiation-Enhanced Effects in Thin Films, J.E.E. Baglin, (U.S.)

Investigation of Thin Films by Positron Annihilation, R.N. West (U.K.)

Laser and Ion Beam Mixing of Thin Markers in Films, F.W. Saris (Netherlands)

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1987 E-MRS Meeting

June 2-5, 1987

Council of Europe, Strasbourg, France

SYMPOSIUM A — PHOTON, BEAM AND PLASMA ENHANCED PROCESSING

Highlighting interaction mechanisms and comparing emerging technologies using lasers, incoherent light, charged particle beams and plasmas to enhance epitaxy, surface and interface chemistry and phase transformation processes.

Chairs: E.F. Krimmel, Siemens A.G.
V.T. Nguyen, CNET

SYMPOSIUM B — GROWTH AND CHARACTERIZATION, PROCESSING OF III-V MATERIALS WITH CORRELATIONS TO DEVICE PERFORMANCES

Focusing on growth and characterization of compound semiconductor bulk material and heterostructures with special emphasis on material properties linked to processing technology and device performances.

Chairs: P.A. Glasow, Siemens A.G.
Y.I. Nissim, CNET

SYMPOSIUM C — AMORPHOUS HYDROGENATED CARBON FILMS

Spanning preparation, structural properties, and applications of hard amorphous hydrogenated carbon (a-C:H) films, which are becoming increasingly important as optical, dielectric, tribological or corrosion-resistant coatings and in wall conditioning in fusion devices.

Chairs: P. Koidl, Frauenhofer Institut
P. Oelhafen, University of Basel

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