

European Materials Research Society ■ 1988 Annual Meeting

May 31 - June 2, 1988

Council of Europe ■ Strasbourg, France

Call for Papers

A series of four interdisciplinary topical symposia will provide the focus for the 1988 E-MRS Meeting in Strasbourg. Contributed papers, both oral and poster, are being solicited on the topics listed below. The deadline for submitting abstracts is **March 1, 1988**. For details on submitting abstracts, contact the symposium chairs.

Symposium A—Ceramic Materials Research

- Fabrication, including the progress achieved by refinements of conventional processing and the promise of alternative methods
- Characterization, including structural studies, nondestructive evaluation, and criteria for functional reliability
- Applications and Properties, including expanding electrical, electronic, magnetic and optical uses and opportunities for materials substitution in mechanical engineering components
- Topics for a Special Session, including powders and raw materials, innovation in traditional ceramics, and superconducting ceramics

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Symposium B—Photon, Beam and Plasma Assisted Processing: Fundamentals and Device Technology

- Effects of photons, energetic particle beams or plasmas on surface and interface interactions (adsorption, desorption, migration, nucleation, and adhesion)
- Kinetics and thermodynamics of induced reactions on or near surfaces
- Process induced defects; in-situ diagnosis of interactions on or near surfaces
- Deposition, growth, etching and surface modification processing of amorphous and crystalline materials
- Fabrication of new electronic and non-electronic high-tech materials (heterostructures, superlattices, SOI, ceramics, etc.)
- Application to device processing: influence of defects on device performances, new beam concepts for wafer-scale integration by direct writing or projection, surface preparation for UHV processing, *in situ* testing of devices

Chairs: I.W. Boyd

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Symposium C—Deep Implants: Fundamentals and Applications

- Experimental and theoretical aspects of the physical and technological problems involved in deep ion implantation, including range and damage distribution, doping profiles, chemical layer formation, etc.
- New applications of high energy (MeV) ion beams
- Specific problems related to VLSI technology, including device fabrication and performance
- Ion implantation machines for high energies (MeV) and doses

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Symposium D—Preparation and Properties of Metastable Alloys

- Thermodynamic properties and alloy phase diagrams
- Formation of metastable alloy (vapor deposition, meltspinning, laser quenching, ion implantation, ion mixing, solid state reactions, mechanical alloying)
- New metastable alloys; metallic superlattices
- Atomic structure (including modern microscopy: HRTEM, STM, FIM)
- Thermal and chemical stability
- Magnetic and mechanical properties (hard magnets, storage material; mechanical stresses)

Chairs: K. Samwer
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MRS BULLETIN

1988 Editorial Calendar

FEBRUARY issue

Focus: Modeling as Applied to Materials Research
Guest Editor: Brian Dodson, Sandia National Laboratories
Editorial Deadline: December 7, 1987
Advertising Closing: January 5, 1988
Publication: February 10, 1988

MARCH issue

Focus: To Be Announced
1987 Von Hippel Address by Dr. Charles Frank
Editorial Deadline: January 5, 1988
Advertising Closing: February 8, 1988
Publication: March 8, 1988

APRIL issue

Focus: On-Line Nondestructive Evaluation for Control and Modeling of Materials Processing
Guest Editor: H. Thomas Yolken, National Bureau of Standards
Editorial Deadline: February 1, 1988
Advertising Closing: March 10, 1988
Publication: April 8, 1988

MAY issue

Focus: Biomedical Materials
1987 Fall Meeting Plenary Address by Dr. William DeVries
Editorial Deadline: March 1, 1988
Advertising Closing: April 8, 1988
Publication: May 10, 1988

JUNE issue

Focus: Magnetic Materials
Guest Editor: Jan F. Herbst, General Motors Research Laboratories
Editorial Deadline: April 4, 1988
Advertising Closing: May 10, 1988
Publication: June 10, 1988

JULY issue

Focus: To Be Announced
Editorial Deadline: May 2, 1988
Advertising Closing: June 10, 1988
Publication: July 11, 1988

AUGUST issue

Focus: Photonics and the Use of Nonlinear Optics in Electronics
Guest Editor: Alistair Glass, AT&T Bell Laboratories
Editorial Deadline: June 1, 1988
Advertising Closing: July 11, 1988
Publication: August 10, 1988

SEPTEMBER issue

Focus: To Be Announced
Editorial Deadline: July 5, 1988
Advertising Closing: August 10, 1988
Publication: September 12, 1988

OCTOBER issue

Focus: Crystal Growth Preview of the MRS Fall Meeting and Exhibit
Guest Editors: Anthony L. Gentile and Dennis F. Elwell, Hughes Research Laboratories
Editorial Deadline: August 1, 1988
Advertising Closing: September 9, 1988
Publication: October 10, 1988

NOVEMBER issue

Focus: To Be Announced
Editorial Deadline: September 1, 1988
Advertising Closing: October 10, 1988
Publication: November 11, 1988

DECEMBER issue

Focus: Deposition Processes
Guest Editor: Russell Messier, Pennsylvania State University
Editorial Deadline: October 3, 1988
Advertising Closing: November 10, 1988
Publication: December 9, 1988

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