

NATO Advanced Study Institute on Structure-Property Relationships in Surface Modified Ceramics

A NATO Advanced Study Institute on Structure-Property Relationships in Surface Modified Ceramics — Theory and Applications, will be held near Pisa, Italy, August 28 through September 10, 1988. Subjects to be covered include: ion-solid interactions in polyatomic crystals, lattice defects, control of microstructure by ion beams, ion beam assisted deposition, and mechanical, tribological, chemical, optical, and physical (high T_c superconducting ceramics) properties.

The Institute will be limited to 90 participants. The deadline for submission of applications is **March 31, 1988**.

For information contact: Carl J. McHargue, Metals and Ceramics Division, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, TN 37831-6118, telephone (615) 574-4344; Ram Kossowsky, Applied Physics Laboratory, Pennsylvania State University, P.O. Box 30, State College, PA 16804, telephone (814) 863-4481; or Dr. Wolfgang Hofer, Nuclear Fusion Project, KFA, Jülich 1, FRG, telephone 49-2461-610.

Computer Aided Design in Composite Material Technology

The Computational Mechanics Institute, in collaboration with the Free University of Brussels, is organizing an international conference on Computer Aided Design in Composite Material Technology to be held at Southampton University, April 13-15, 1988. The conference aims to achieve a crit-

ical assessment and enhancement of applications of computer aided engineering techniques in composite materials and structures.

The meeting will focus on the use of computers in analysis, design, and manufacture of composites and structures. It will also include topics such as simulation of manufacturing processes. Papers will cover the following topics:

- Manufacturing processes
- Material and structure identification
- Computer simulation of filament winding and other processes
- Laminated analysis and design
- Thermal analysis
- Structural behavior
- Joining and bonding
- Nondestructive inspection and testing
- Finite and boundary element methods
- Time-dependent properties
- Durability
- Impact and wave propagation problems
- Software for composite material technology

For information contact L. Newman, Conference Secretary, Computational Mechanics Institute, 52 Henstead Road, Southampton, SO1 2DD, UK; telephone 44 (0) 703 221398.

Workshop on Tungsten and Other Refractory Metals for VLSI Applications

A Workshop on Tungsten and Other Refractory Metals for VLSI Applications will be held October 7-9, 1987 in Yorktown Heights, NY. The three-day workshop is designed to promote communication among researchers working on refractory metals for advanced IC applications. Particular attention will be given to metals that can be deposited in a spatially selective way, such as tungsten.

The workshop will consist of a series of single-session presentations, including contributed and invited talks, supplemented by informal panel discussions. Panels will discuss topics including selectivity determinants, deposition, equipment, and the reliability of devices with tungsten elements.

Papers will cover the following topics: LPCVD techniques, deposition kinetics, CVD gas chemistry, film properties, film/substrate interaction, refractory metal gates and interconnects, intermetal contact plugs, diffusion barriers, new device structures, adhesion of blanket tungsten to oxides, and etching of tungsten and refractory metals.

Contact Linda Reid, Continuing Education in Engineering, University Extension, University of California, 2223 Fulton Street, Berkeley, CA 94720; telephone (415) 642-4151.

SUPERCONDUCTIVITY

The Opportunities, Implications and Applications

Royal Lancaster Hotel
London - October 19, 1987

Speakers

- Sir K. Corfield, Director, Midland Bank, Britoil & Octagon Group
- Dr. T. Farthing, Managing Director, IMI-Titanium
- Sir. M. Wood, Deputy Chairman, Oxford Instruments
- Dr. P. Williams, Chief Executive, Oxford Instruments
- Dr. G. Keyworth, former Science Adviser to the President of the United States
- Mr. J. Howarth, Branch Head, Department of Trade and Industry
- Dr. A. Appleton, Chairman, British Cryogenics Council
- Prof. W. Gosling, Technical Director, Plessey
- Dr. G. Pardoe, Chairman, Watt Committee on Energy

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