

### 1988 TMS Regional Meeting to Explore Processing and Applications of High $T_c$ Superconductors

A call for papers has been issued for a three-day regional meeting, "Processing and Applications of High  $T_c$  Superconductors: Status and Prospects," to be held at Rutgers University in New Brunswick, NJ, May 9-11, 1988. The meeting is being cosponsored by the Materials Research Society, The Metallurgical Society, and ASM International. Several industrial laboratories are also cooperating in its organization, most notably AT&T Bell Laboratories, EXXON, and IBM. The goal of the meeting is to generate a dialogue between researchers who focus on the physico-chemical aspects of processing and those who implement these technologies.

The meeting will focus on issues related to the processing and potential applications of high  $T_c$  superconductors in both thin film and bulk forms. Of particular interest are innovative methods for processing these materials into forms suitable for commercial exploitation, such as wires, ribbons, composites, and thin films. Also of interest is the effect of processing methods on the reliability and stability of these materials. Oral and poster session papers are solicited on these and the following areas:

- Thin film deposition techniques
- Novel approaches to control of line definition and patterning
- Reliability and stability
- Production of wires and fibers
- Superconductor/metal composites
- Tape casting of ribbons

Proceedings of this symposium will be published. Questions regarding submis-

sion of abstracts or organization of the conference should be addressed to Prof. Mayo at the address below.

Prospective authors are invited to submit abstracts not exceeding 150 words before *January 15, 1988*. Include title and author(s) affiliation(s), with the speaker's name underlined. Be sure to include the speaker's complete mailing address and telephone number. Send abstracts to:

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 Material Science  
 Rutgers - The State University  
 of New Jersey  
 P.O. Box 909  
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 (201) 932-4943

### International Electron Devices Meeting Will Highlight Superconductors and GaAs Devices

The 33rd annual International Electron Devices Meeting (IEDM) will be held in Washington, DC, December 6-9, 1987. This conference, the annual technical meeting of the Electron Devices Society of the IEEE, will highlight two major developments in the electronics industry:

- Superconducting materials and devices. The Plenary lecture by Malcolm Beasley of Stanford University will provide an up-to-the-minute review of recent developments and future trends. An invited paper by Steven Whitley of Hypres, Inc., will deal with device applications of superconducting technology.

- The combination of the superior electronic and optoelectronic properties of GaAs with the well-established silicon integrated circuit technology. The Plenary lec-

ture by Al Cho of AT&T Bell Laboratories will discuss recent breakthroughs in GaAs devices which have been fabricated directly onto Si substrates in spite of a large difference in atomic spacing between the two materials. An evening panel discussion will compare the cost/performance tradeoffs with these materials.

Paul Gray of the University of California-Berkeley will highlight yet another key area in his Plenary lecture on "Analog ICs in VLSI Digital Era: Trends and Perspectives."

Over 200 technical papers, both invited and contributed, on various aspects of electron devices are scheduled for presentation. Topics will span modeling and simulation, solid state devices, device technology, integrated circuits, electron tubes, quantum electronics and compound semiconductor devices, and detectors, sensors and displays. An international flavor is evident in that 39% of the submitted papers are from outside the United States, representing 22 different countries.

Simultaneous panel discussions will cover: Advanced IC Interconnect Technology; GaAs on Si; Application Dependency of Technology Choice—CMOS, Bipolar, BiCMOS; and Integrating Sensors and Electronics: Where to Draw the Line?

In addition to the presentation of various awards, the 1987 IEDM Best Student Paper Award will be given to Jeremy Allam of the University of Surrey and Chung Ng of Columbia University.

For information contact: Gregory Olsen, IEDM Publicity Chairman, EPITAXX, Inc., 3490 U.S. Route One, Princeton, NJ 08540 (609) 452-1188.

### 1988 MRS FALL MEETING

November 28 - December 3

Boston, Massachusetts

Boston Marriott Hotel and  
 The Westin Hotel/Copley Place

#### Chairs:

G. Slade Cargill, III  
 IBM Corporation  
 T.J. Watson Research Center  
 P.O. Box 218  
 Yorktown Heights, NY 10598  
 (914) 945-1958

D. Wayne Goodman  
 Sandia National Laboratories  
 Division 1134  
 P.O. Box 5800  
 Albuquerque, NM 87185

J. Francis Young  
 University of Illinois  
 202A Ceramics Bldg.  
 105 S. Goodwin  
 Urbana, IL 61801  
 (217) 244-6210

### New England Society for Electron Microscopy Annual Symposium



Wednesday  
 December 2, 1987  
 1-5 p.m.

Boston College Room/  
 Regis Room, Westin Hotel  
 Boston, Massachusetts



*All attendees of the  
 MRS Fall Meeting may be  
 admitted free of charge.*

*Final program will be  
 available at the meeting.*