

New Mexico Section to Cosponsor Regional Conference on Superconducting Materials

The New Mexico Section of the Materials Research Society and the Department of Chemical and Nuclear Engineering of the University of New Mexico will cosponsor a southwestern U.S. regional conference/workshop on "Developments in High Temperature Superconducting Materials" to be held in Santa Fe, NM, on October 1-2, 1987. The conference/workshop will bring together active researchers in high temperature superconductors for a free exchange of ideas and information on this vital area of materials research. Dialogue and the dissemination of ideas will be promoted through the use of extended discussion periods.

An all-day workshop and poster session on late developments will follow an introductory panel discussion. Posters on recent developments in high T_c materials research in the southwestern United States are being solicited. For information, contact any of the New Mexico Section officers listed below.

An exhibit of literature from equipment manufacturers and materials suppliers is also planned. Product literature which relates to superconductivity will be displayed.

The preliminary list of speakers and topics is as follows:

- Properties and Theory of High T_c Superconducting Materials—J.L. Smith (Los Alamos National Laboratories), R.N. Silver (Los Alamos), J.E. Schirber (Sandia National Laboratories), D.R. Jennison (Sandia)
- Synthesis and Processing—H. Sheinberg (Los Alamos), D.E. Peterson (Los Alamos), R.J. Eagan (Sandia), R.E. Loehman (Sandia)
- Analogs and New Materials—N. Sauer (Los Alamos), R.R. Ryan (Los Alamos)
- Diagnostics and Characterization—E.L. Venturini (Sandia), B. Morosin (Sandia), J.F. Kwak (Sandia), L.J. Azevedo (Sandia), J.O. Willis (Los Alamos), R.B. Schwarz (Los Alamos), I. Raistrick (Los Alamos), S.R.J. Brueck (Center for High Technology Materials, University of New Mexico)
- Single Crystals—T.L. Aselage (Sandia), Z. Fisk (Los Alamos)
- Thin Films—D.S. Ginley (Sandia), C.B. Fleddermann (Center for High Technology Materials, UNM/Sandia), C. Maggione (Los Alamos), P. Arendt (Los Alamos)

Attendance at the conference/workshop will be limited and advance reservation is recommended. For information or registration, contact any of the following New Mexico Section officers:



Electronic Materials Symposium organizers W. Fisher (left) and M. Bennett.

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Any company wishing to participate in the exhibit should contact:

Vivienne Harwood Mattox
NM Section of MRS, Exhibit Coordinator
440 Live Oak Loop
Albuquerque, NM 87122

North Texas Section Cosponsors Sixth Annual Symposium on Electronic Materials, Processing and Characterization

The Sixth Annual Symposium on Electronic Materials, Processing and Characterization was held at the Marriott Park Central Hotel in Dallas, Texas on June 1 and 2, 1987. For the second straight year, this conference had as cosponsors the local sections of three national societies: the North Texas Materials Characterization Society of the Materials Research Society, the Texas Chapter of the American Vacuum Society,

and the North Texas Section of The Electrochemical Society.

The efforts of the organizing committee, composed of Marylyn Bennett (MRS), Wayne Fisher (AVS), and Allen Bowling (ECS), paid off, as this was the largest and most successful meeting to date. A total of 144 persons registered for the meeting, of whom 31 were students and 30 were equipment vendors. Seven invited talks were given by individuals from the United States and Europe.

Of the 19 contributed presentations, 5 papers were given by students competing for two student awards. This marked the first year of the student awards, which were made possible through the generosity of the vendors. The first place award was won by D.L. Leslie-Pelecky of North Texas State University for the paper "A Novel Characterization Method Using Hall Coefficients and Magnetoresistance Measurements." The second place award was won by S.K. Jindal of the University of Texas for the paper "Investigation of Lattice Damage in GaAs Caused by Low Energy Ar Ion Bombardment, by Electron Channeling Patterns."

The scheduled sessions highlighted recent work on advanced processing and manufacturing, advanced lithography, dielectrics, epitaxy and deposition, compound semiconductors, metallization, and characterization. Thirty vendors had exhibits for meeting participants to visit during the breaks and during a reception the first evening of the conference.

The evening of June 1, the North Texas Materials Characterization Society sponsored a tutorial on sample preparation for cross sectional examination by transmis-

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sion electron microscopy. The speaker for this tutorial was Richard Flutie of Digital Equipment Corporation.

J.M. PHILLIPS

North Carolina Section Hosts Workshop on Plasma-Surface Interaction and Processing of Materials

The North Carolina Section of the Materials Research Society hosted a fourth workshop on advanced materials processing titled "Plasma-Surface Interaction and Processing of Materials." Organized by O. Auciello and H. Conrad, the workshop was held on April 14, 1987 at the Microelectronics Center of North Carolina (MCNC), Research Triangle Park, NC.

The workshop was attended by about 30 persons from the area who showed considerable interest and enthusiasm in the subject and discussions. The program and invited speakers were as follows:

• Session 1—H. Conrad (NC State University), Chair

Chemistry of Low Temperature Plasmas, by D.L. Flamm (AT&T Bell Laboratories)

Transport Processes in Low Temperature Plasmas, by A. Gras-Marti (Oak Ridge National Laboratory)

• Session 2—R.F. Davis (NC State University), Chair

Physics of Plasmas/Discharges, by S. Bobbio (MCNC)

Plasma/Discharge Diagnostics (Optical, Probes), by O.E. Hankins (NC State University)

• Session 3—J. Narayan (NC State University), Chair

Chemical Etching of Semiconductors (Ion, e⁻, and Photon-Assisted Processes), by T.M. Mayer (University of NC)

Chemical Etching of Graphite (Ion, e⁻, and Photon-Assisted Processes), by O. Auciello (NC State University)

Plasma-Enhanced Chemical Vapor Deposition of Films, by D. Tsu (NC State University)

• Session 4—A. Reisman (RTI), Chair
Plasma-Assisted Sintering of Ceramics, by R. Porter (NC State University)

Characterization of Surfaces by Techniques That Give Information on Surface Chemistry, by A.F. Schreiner (NC State University)

Scanning Tunneling Microscopy: A Potential New Technique for In Situ Surface Chemistry Analysis, by P. Russell

For more information about the North Carolina Section and its activities, contact: President: Dr. Hans Conrad

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MRS Corporate Supporters Advanced Materials Conference and Exhibition

May 1988

Tokyo, Japan

- Fuji Electric Co., Ltd.
- National Electrostatics Corporation
- Perkin-Elmer Physical Electronics Division

The Advanced Materials Exhibition is being held the week preceeding the MRS International Meeting on Advanced Materials (May 30–June 3, 1988) and the JSAP-MRS International Conference on Electronic Materials (June 12-15, 1988), both in Tokyo.

For information contact: Materials Research Society (412) 367-3003

Journal of Materials Research to Feature High T_c Superconductor Articles in November/December Issue

As a major archival journal documenting leading edge materials research, *Journal of Materials Research* will feature a special section of original research articles on high T_c superconductors in the November/December issue. The excitement which began about this rapidly evolving field at the 1986 MRS Fall Meeting in Boston continues to grow within the materials community. To provide further insight into this field, *Journal of Materials Research* solicited manuscripts

focusing on new research on the materials aspects of high T_c superconductors. These manuscripts, contributed by renowned scientists from various disciplines, are presently undergoing expedited reviews and will be published in the standard *Journal of Materials Research* format upon acceptance. The November/December issue of *Journal of Materials Research* is scheduled for publication by the end of November, and copies will be available at the upcoming MRS Fall Meeting in Boston.

Although the article submission deadline is past for high T_c superconductor articles for the November/December issue, other articles, rapid communications, reviews, and commentaries are welcome

for consideration in subsequent issues. *Journal of Materials Research* continues to receive an increasing number of articles from various disciplines and to grow in breadth and depth of topical categories. For information on article submission to *Journal of Materials Research*, contact Linda Krysinski, Editorial Office Supervisor, *Journal of Materials Research*, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; telephone (412) 367-9111.

To subscribe to *Journal of Materials Research*, contact Marketing Services, American Institute of Physics, 335 East 45th Street, New York, NY 10017; telephone (212) 661-9404.