1985 MRS Fall Meeting Preview

22 Technical Symposia, Equipment Exhibit, 14 Short Courses, Job Placement Center

The annual MRS Fall Meeting in Boston will take place December 1-6, 1985, and will be the largest MRS conference and exhibit to date. A total of 22 technical meetings will focus on a number of successful MRS symposia series as well as feature two new topical areas never before addressed at an international MRS conference.

The popular equipment exhibit, instituted at last year's Fall Meeting, will again be held throughout the week at convenient times for meeting participants to browse without missing out on symposia sessions. This year the exhibit will feature approximately 100 displays by manufacturers, suppliers and distributors of scientific instruments and services. The exhibit is operated for the Society by the American Institute of Physics, which will also manage the Job Placement Center during the week. This service, open from 9:00 a.m. to 5:00 p.m., Tuesday through Thursday, is a convenient way for prospective employers and scientists to meet face to face and

discuss career objectives and job opportunities, conveniently and confidentially.

A special session on Monday evening will recognize the winner of the Arthur Von Hippel Award, the Society's most prestigious honor, and winners of the Graduate Student Awards. Wednesday evening, Gerald Yonas, chief scientist and acting deputy director, Strategic Defense Initiative Organization, will present the Plenary Address. Dr. Yonas will discuss "Materials for SDI."

Wrapping up this intense week on the most important materials developments to date are 14 short courses on various topical interest areas which will run on Friday and Saturday. Registration for the courses is limited, and early registration is encouraged.

Review the following schedule of events and highlights, and register now to be in Boston with your colleagues from around the world.

Exhibitors at 1985 MRS Fall Meeting

(as of August 9, 1985)

Academic Press AG Associates

Alcatel Vacuum Products Andonian Cryogenics

Amplifier Research

Atomika

Bio-Rad SMS
Blake Industries

Callery Chemical Co.

Cameca Instruments

Ceramaseal Cryomagnetics

Eaton Corp. Edax International

EG&G Princeton Applied

Research

Charles Evans Associates

Gatan

Gaertner Scientific

GEC Avionics General Ionex Granville-Phillips

High Voltage Engineering

Europa BV ICI Americas Instruments SA International Scientific Instruments

Ion Tec

Janis Research Co.

Jeol USA

Keithley Instruments Kimball Physics

Lake Shore Cryotronics Lecroy Research Systems

Kurt J. Lesker Co.

Leybold-Heraeus Vacuum

Products

Materials by Metron Micron Optics

Microscience
MKS Instrumen

MKS Instruments
MMR Technologies

National Electrostatics Corp. Neslab Instruments

Netzch

NGS Associates

North Eastern Analytical

Oriel

Oxford Instruments NA

Perkin-Elmer Physical Electronics Philips Electronic Instruments

Photon Technology International

Plenum Publishing

Physicon

Physitec Corp. Polymer Labs

Princeton Gamma-Tech

Questek Rigaku

Rudolph Research

Semiconductor Processing Co. Sohio Engineered Materials Co.—

Carborundum

South Bay Technology

Spectramass

Spire

Structure Probe/SPI Supplies

Surface Alloys Corp.
Surface Science Labs
Tamarack Scientific
Themionics Labs

Themionics Labs Tracor Northern UHV Instruments

VG Instruments

Beam-Solid Interactions and Phase Transformations (Symposium A) December 2-4 (Monday-Wednesday) Chairs: H. Kurz, Technical University Aachen; G. L. Olson, Hughes Research Laboratories; J. M. Poate, AT&T Bell

Approximately 76 oral and poster presentations will focus on laser-solid surface interactions, phase transitions and ion-solid interactions, laser-induced melting and exitation of semiconductors, laser-induced phase transformations in carbon and metals, ion beam-solid interactions, ion beam mixing and metastable phase formation. Some sessions are joint with Symposium D. Invited speakers include: N. Bloembergen, C. V. Shank, H. Walther, Y. R. Shen, W. L. Brown, D. Turnbull, J. S. Williams, J. W. Mayer, M. O. Thompson, A. M. Malvezzi, G. Braunstein, B. Stritzker, R. G. Elliman, F. W. Saris, J. A. Knapp.

Rapid-Thermal Processing

(Symposium B)

December 2-6 (Monday-Friday)

Chairs: T.O. Sedgwick, IBM T. J. Watson Research Center; T. E. Siedel, J. C. Schumacher Co.; B.Y. Tsaur, MIT Lincoln Laboratory

Approximately 59 papers will address implanted dopant activities and diffusion in silicon, defects and microstructure, equipment and device applications, rapid thermal processing for VLSI processing (panel discussion), silicides and oxides, compound semiconductors. Invited speakers include: A. E. Michel, S. J. Pennycook, D. M. Maher, S. R. Wilson, P. K. Vasudev, F. M. d'Heurle, S. J. Pearton.



Plenary Speaker Gerald Yonas, Strategic Defense Initiative Organization

TRANSPORTATION TO FALL MEETING

CONVENTION AIRFARE DISCOUNTS:

American Airlines is offering MRS members exclusive Meeting Saver fares equal to any American Airlines special promotional fare for which you may qualify or 35% discount off day coach fare, whichever is lower and in effect the date tickets are purchased. This exclusive Meeting Saver fare waives the Saturday night stay and is valid though the MRS Services desk for round trip domestic travel on American Airlines. Tickets may be purchased up to seven days prior to departure.

RESERVATIONS:

Call the MRS Services desk of American Airlines weekdays 9:00 a.m. to 5:30 p.m. California time at (800) 624-4868 (in California) or (800) 334-4331 (in Continental U.S.) Give the travel specialist the special MRS file number, S-7237. Your reservations on all airlines will be confirmed including connecting and round trip flights and your tickets sent to you directly. The

special discount Meeting Saver fare is available for MRS members through a special arrangement with American River Travel in Sacramento, California.

SPECIAL FEATURES:

When you make your flight reservations, you may order special diet entrees or any of seven American Traveler meals. American River Travel specialists will reserve the seat you choose—window, aisle, smoking or no-smoking—and help you confirm car rentals. At the airport, they will issue round trip boarding passes so you can skip check-in on your way home.

LOCAL TRANSPORTATION:

Shuttle service from Logan Airport to the Boston Marriott Hotel/Copley Place and The Westin Hotel departs every half hour from the designated shuttle stop in front of each terminal. The cost is \$6. Cab fare ranges between \$10 and \$15. Parking is available adjacent to both hotels at a cost of \$12 per day.

Semiconductor-on-Insulator and Thin Film Transistor Technology (Symposium

C)

December 2-6 (Monday-Friday)
Chairs: A. Chiang, Xerox Palo Alto
Research Center; M. W. Geis, MIT
Lincoln Laboratory; L. Pfeiffer, AT&T
Bell Laboratories

Approximately 67 papers will focus on crystal growth and zone melting, epitaxy and SOS, implanted insulator, porous silicon, characterization of SOI thin films, polysilicon device and TFT, SOI devices and circuits/novel structures. Invited speakers include: K. A. Jackson, H. I. Smith, P. K. Vasudev, H. Ishiwara, D.J. Dumin, P. L. F. Hemment, H. W. Lam, J. M. Gibson, C. R. M. Grovenor, N. M. Johnson, H. Shichijo, B.-Y. Tsaur, D. W. Greve, T. Enomoto, M. S. Wrighton, R. H. Baughman.

Beam-Induced Chemical Process

(Symposium D)

December 2-6 (Monday-Friday)
Chairs: R. J. von Gutfeld, IBM T. J.
Watson Research Center; J. E. Greene,
University of Illinois; J. Schlossberg, Air
Force Office of Scientific Research

Approximately 66 papers will address lasersolid and surface interactions, phase transitions and ion-solid interactions, metal depositions, metal and semiconductor depositions, beam depositions, beam-induced etching, etching and product analysis, dynamics of beam surface interactions, VLSI and related applications. Some sessions are joint with Symposium A. Invited speakers include: N. Bloembergen, C. V. Shank, H. Walther, Y. R. Shen, W. L. Brown, D. Turnbull, J. S. Williams, J. W. Mayer, C. R. Jones, M. E. Gross, Z. Yu, R. M. Osgood, J.-E. Sundgren, G. H. Chapman.

Thin Films—Interaces and Phenomena (Symposium E)

December 2-6 (Monday-Friday)

Chairs: R. J. Nemanich, Xerox Palo Alto Research Center; P.S. Ho, IBM Watson Research Center; S. S. Lau, University of California

Approximately 149 oral and poster presentations will address silicide formation and properties, epitaxial layers, reaction kinetics, ion mixing, Schottky barriers, epitaxial silicide, ion-beam mixing, interface characterization, contact to III-V's, compound semiconductor interfaces, VLSI technology and packaging, growth and analysis, oxides and nitrides. Some sesions joint with Symposium H. Invited speakers include: G. W. Rubloff, O. Bisi, I. Ohdomari, L. J. Chen, L. J. Schowalter, T. P. Smith, F. W. Saris, E. S. Yang, J. C. Hensel, R. T. Tung, P. S. Ho, J. W. Mayer, S. Furukawa, T. S. Kuan, L. J. Brillson, A. K. Sinha.

Transport and Excitations in Polymers

(Symposium F)

December 2-6 (Monday-Friday)
Chairs: T. Venkatesan, Bell
Communications Research, Inc; E.
Kramer, Cornell University; R. H.
Baughman, Allied Chemical Corporation
Approximately 92 oral and poster papers