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Materials Research Society
Meeting Registration
9800 McKnight Road
Pittsburgh, PA 15237-6006

PHONE Call the MRS Meeting Registration Desk,
(412) 367-3004, between 8:00 a.m. and 5:00 p.m.
Eastern time. **Telephone registration requires
credit card payment;** have your credit card and
this form in front of you for easy reference.

FAX Transmit this form via Fax to the
MRS Meeting Registration Desk,
(412) 367-4373, in service 24 hours
every day. **Fax registration requires
credit card payment.**

Preregistration Deadline: November 18, 1994

NOTE: Please enter mailing label code (0...) from back cover of program if available. If you do not have a mailing label code, draw a line through code box at right. **MRS**
Enter mailing label code in box.

Please fill in form completely and legibly to assure proper processing.
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 MRS selectively permits use of its membership list by advertisers of products which the Society deems to be of high interest to MRS members. Please check if you do not wish to receive these mailings.

A Meeting Preregistration

Please check category and enter amount in payment section below.
 \$260 Member\$300 After November 18, 1994
 \$70 Student Member\$80 After November 18, 1994
 \$310 Nonmember\$350 After November 18, 1994
 \$80 Student Nonmember\$90 After November 18, 1994
Student registration will not be processed without proof of full-time student status.
 \$100 Unemployed/Retired\$110 After November 18, 1994
 \$100 Short Course Attendee registered for at least two full course days\$110 After November 18, 1994

All registrations include complimentary MRS membership through December 31, 1995.
Enter total here and in box below right. **TOTAL \$** _____

Symposium interest (please check all that apply):
 A C F I1 Jb M Ob R U W1 Za AA
 B1 D G I2 K N P S Va W2 Zb BB
 B2 E H Ja L Oa Q T Vb Y

B Proceedings

(published after this meeting)
These rates apply only to meeting or short course attendees and MRS members. Nonmembers must contact MRS headquarters for prices.

		No. Copies	Total
A:	Beam-Solid Interactions	\$60 x	= \$
B1:	Thin Film and Surface Structure.....	\$62 x	= \$
B2:	Thin Films—Mechanical Properties	\$60 x	= \$
C:	Interfaces in Ceramics.....	\$50 x	= \$
F:	Microcryst. & Nanocryst. Semiconductors	\$65 x	= \$
G:	Fullerene Materials	\$55 x	= \$
I1:	Smart Systems	\$50 x	= \$
I2:	Ferroelectric Thin Films	\$52 x	= \$
Jb:	Grain Size & Mechanical Properties.....	\$52 x	= \$
K:	CVD of Refractory Metals/Ceramics	\$50 x	= \$
L:	High Temp. Intermetallic Alloys	\$65 x	= \$
M:	Ceramic Matrix Composites	\$50 x	= \$
N:	Small Confining Systems.....	\$52 x	= \$
P:	Fractal Aspects of Materials	\$55 x	= \$
T:	Advanced Catalytic Materials.....	\$50 x	= \$
U:	Solid State Ionics	\$60 x	= \$
Va/Vb:	Cement: Microstruct./Bonding/Interfaces	\$50 x	= \$
W1:	Porous Materials.....	\$50 x	= \$
W2:	Hollow and Solid Spheres/Microspheres	\$55 x	= \$
Y:	Microstructure of Irradiated Materials	\$55 x	= \$
Zb:	Materials for Optical Limiting	\$55 x	= \$
AA:	Synchrotron Radiation Techniques	\$52 x	= \$
BB:	Neutron Scattering.....	\$60 x	= \$
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	7% Sales Tax (PA residents only) \$		
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C Journal of Materials Research 1995

Subscription at Member Rate (one per registrant) \$55
Optional Air Freight..... \$55

Enter total here and in box below. **TOTAL \$** _____

Short Courses and Tutorials

To preregister, check each short course/tutorial in which you wish to enroll. If you register for two or more short course days, you may attend the technical meeting for only \$100 (complete the Meeting Preregistration section at left).

After November 18, 1994, short course and tutorial registrations will be \$25 higher.

D Short Courses/Tutorials

Facilities registering three or more persons at the same time in one MRS Short Course receive a 10% discount for all persons.

- C-08 Ceramic and Metal-Matrix Composites\$595
- C-14 STM & AFM\$395
- C-29 Practical Electron Diffraction.....\$595
- C-31 Near-Field Scanning Optical Microscopy (NSOM).....\$395
- F-02 Plasma Etching.....\$395
- F-10 Ion Beam Assisted Deposition.....\$395
- M-12 Cementitious Materials\$395
- M-14 Shape-Memory Alloys.....\$395
- M-15 Biological Processes for Materials Synthesis.....\$450
- M-16 Ferroelectric Thin Films\$450
- M-19 Wide Bandgap II-VI Semiconductor Microstructures\$395
- M-20 Light-Emitting Porous Silicon.....\$395
- P-02 Molecular Beam Epitaxy.....\$595
- P-14 Thin-Film Structures\$595
- A-01 The Whole Internet - Usage and Futures\$395
- TP-1 Transfer of Technology from R&D to Manufacturing\$125
- TP-2 Fractals in Materials Science.....\$ 95
- TP-6 Design and Processing of Materials By Biomimetics.....\$ 95
- TP-8 Mechanical Properties of Thin Films\$ 95
- TP-9 Capillary Optics for X-Rays and Neutrons.....\$ 95
- TP-10 Low-Energy Electron Microscopy (LEEM)\$ 95
- TP-11 Federal Materials Research Programs/Opportunities.....\$ 95

TOTAL SHORT COURSE/TUTORIAL TUITION \$ _____

Enter total here and in box below.

PAYMENT OPTIONS

Payment is enclosed. Make checks payable, in U.S. dollars, to Materials Research Society. Payment from outside the U.S. should be drawn on a correspondent U.S. bank.
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A Meeting Preregistration (from left) \$ _____
B Proceedings (from left) \$ _____
C Journal of Materials Research (from above) \$ _____
D Short Courses/Tutorials (from above) \$ _____
TOTAL FEES PAID \$ _____

Payment must accompany preregistration.

MRS 1994 FALL MEETING

BOSTON, MA

LOCATION/LODGING/TRAVEL

**Boston Marriott/
Copley Place**
110 Huntington Avenue
Boston, MA 02116
(800) 228-9290
(617) 236-5800 (Direct)
Fax (617) 236-5885
Rate: \$117/Single
\$131/Double

**Westin Hotel/
Copley Place**
10 Huntington Avenue
Boston, MA 02116
(800) 228-3000
(617) 262-9600 (Direct)
Fax (617) 424-7483
Rate: \$121/Single
\$146/Double

Sheraton Boston Hotel and Towers
39 Dalton Street
Boston, MA 02199
(617) 236-2000, Ext. 4400
Fax (617) 236-1702
Rate: \$109/Single, \$119/Double

DEADLINE FOR HOTEL RESERVATIONS: NOVEMBER 1, 1994

Blocks of rooms have been reserved for MRS meeting attendees at the Boston Marriott, Westin, and Sheraton Boston Hotels. **Call or fax your preferred hotel and refer to the Materials Research Society's meeting to receive the special rates**

Travel Arrangements

The official travel management company for the Materials Research Society's 1994 Fall Meeting is Giselle's Travel Bureau. They will guarantee the lowest fares on any airline at time of booking. Call Giselle's, **1-800-782-5545**, and mention the

Materials Research Society's meeting, **Monday - Friday, 7:30 a.m. - 5:30 p.m. PST, or fax, (916) 927-0454 or 1-800-TRVLFA.**

MRS meeting attendees receive the following travel benefits and services:

- Lowest fares on any airline guaranteed
- Free flight insurance of \$100,000
- Vouchers for discounts on vacation packages
- Computerized driving instructions from Logan International Airport to your hotel
- Car rental savings

Local Transportation

Shuttle service to the Boston Marriott, Westin, and Sheraton Hotels from Logan International Airport departs every half-hour from the designated shuttle stop in front of each terminal. The cost is approximately \$6-\$8 one way. Cab fares range between \$15-\$18 per ride (up to four persons can share one cab).

There is a free shuttle from airport terminals to the airport subway station (The "T"). Copley Station is within one block of the Marriott, Westin, and Sheraton on the "Green Line."

Parking

A parking garage is adjacent to the hotels at a daily cost of approximately \$21.

Child Care

Check with the Concierge Desk at the individual hotels for a comprehensive roster of licensed and bonded child care providers.

SHORT COURSE PROGRAM at the 1994 MRS FALL MEETING

Selected short courses and a tutorial covering the latest developments in materials science and technology will be offered in conjunction with the 1994 Fall Meeting of the Materials Research Society. These up-to-date presentations are at the forefront of science and technology and complement Fall Meeting symposium topics. **SPECIALTY, REVIEW, AND SURVEY COURSES and TUTORIALS** are designed to meet the needs of scientists, engineers, professional staff, and managers who want to know the latest techniques in materials science and technology. For information about registration, student scholarships, and special meeting registration discounts, contact MRS Headquarters: Phone (412) 367-3004 ext. 320; FAX (412) 367-4373.

Characterization of Materials

- C-08 Introduction to Ceramic Matrix Structured Composites \$595
Instructors: Jack Mecholsky and Maurice F. Amateau
Sunday, November 27, 8:30 a.m. - 4:30 p.m.
Monday, November 28, 8:30 a.m. - 4:30 p.m.
- C-14 Scanning Tunneling Microscopy and Atomic Force Microscopy \$395
Instructor: Dawn A. Bonnell
Wednesday, November 30, 8:30 a.m. - 4:30 p.m.
- C-29 Practical Electron Diffraction \$595
Instructor: Ronald M. Anderson
Wednesday, November 30, 8:30 a.m. - 4:30 p.m.
Thursday, December 1, 8:30 a.m. - 4:30 p.m.
- C-31 Super Resolution Imaging & Spectroscopy with Near-Field Scanning Optical Microscopy (NSOM) \$395
Instructors: Hans Hallen & Michael Paesler
Sunday, November 27, 8:30 a.m. - 4:30 p.m.

Fabrication of Materials

- F-02 Plasma Etching for Microelectronic Fabrication \$395
Instructor: G. Kenneth Herb
Thursday, December 1, 8:30 a.m. - 4:30 p.m.
- F-10 Fundamentals and Applications of Ion Beam Assisted Deposition \$395
Instructor: James K. Hirvonen
Sunday, November 27, 8:30 a.m. - 4:30 p.m.

Advanced Materials

- M-12 Introduction to Cementitious Materials \$395
Instructors: J. Francis Young, Gregory J. McCarthy, & Della M. Roy
Sunday, November 27, 8:30 a.m. - 4:30 p.m.

- M-14 Engineering Aspects of Shape Memory Alloys \$395
Tom Deurig
Thursday, December 1, 8:30 a.m. - 4:30 p.m.
- M-15 Biological Processes for Materials Synthesis \$450
Mark Alper
Monday, November 28, 8:30 a.m. - 4:30 p.m.
Tuesday, November 29, 8:30 a.m. - 12:00 noon
- M-16 Ferroelectric Thin Films \$450
Instructors: Angus I. Kingon and Seshu B. Desu
Monday, November 28, 8:30 a.m. - 4:30 p.m.
Tuesday, November 29, 8:30 a.m. - 12:00 noon
- M-19 Wide Bandgap II-VI Semiconductor Microstructures: Growth, Characterization and Optical Devices \$395
Instructor: Leslie A. Kolodziejcki
Tuesday, November 29, 8:30 a.m. - 4:30 p.m.
- ★M-20 Light Emitting Porous Silicon - Fabrication Properties, and Device Applications \$395
Instructor: Phillippe M. Fauchet
Monday, November 28, 8:30 a.m. - 4:30 p.m.

Preparation of Materials

- P-02 Molecular Beam Epitaxy \$595
Instructor: Gary W. Wicks
Tuesday, November 29, 8:30 a.m. - 4:30 p.m.
Wednesday, November 30, 8:30 a.m. - 4:30 p.m.
- P-14 Film Formation, Adhesion, Surface Preparation and Characterization of Thin-Film Structures \$595
Instructor: Donald M. Mattox
Thursday, December 1, 8:30 a.m. - 4:30 p.m.
Friday, December 2, 8:30 a.m. - 4:30 p.m.

Ancillary Topics **NEW**

- ★A-01 The Whole Internet - Usage and Futures \$395
Instructor: Edward Krol
Wednesday, November 30, 8:30 a.m. - 4:30 p.m.

Tutorial Program

- TP-1 Transfer of Technology from R&D to Manufacturing \$125
Instructors: Donald M. Mattox & Alton D. Romig, Jr.
Tuesday, November 29, 8:30 a.m. - 4:30 p.m.
- TP-2 Fractals in Materials Science \$95
Instructor: James E. Martin
Sunday, November 27, 1:00 p.m. - 5:00 p.m.
- TP-6 Challenges in Design & Processing of Materials By Biomimetics \$95
Instructors: Mehmet Sarikaya, Paul Calvert, Kevin P. McGrath & James H. Fendler
Sunday, November 27, 1:00 p.m. - 5:00 p.m.
- ★TP-8 Thin Films: Stresses & Mechanical Properties \$95
Instructors: Paul H. Townsend & Shefford P. Baker
Sunday, November 27, 1:00 p.m. - 5:00 p.m.
- ★TP-9 Capillary Optics for X-Rays and Neutrons \$95
Instructor: Walter M. Gibson
Wednesday, November 30, 8:30 a.m. - 12:30 p.m.
- ★TP-10 Low Energy Electron Microscopy (LEEM) and Related Techniques in Materials Sciences \$95
Instructor: Shirley Chiang
Friday, December 2, 8:30 a.m. - 12:30 p.m.
- ★TP-11 Federal Materials Research Programs and Opportunities \$95
Instructor: Louis Ianniello
Sunday, November 27, 8:30 a.m. - 12:00 noon

★New Course