



YOUR GUIDE
TO MRS
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BENEFITS &
SOCIETY
ACTIVITIES

2004 OFFICERS

2004



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EXPAND YOUR KNOWLEDGE

MRS members for 2004 will enjoy increased access to the very latest materials information available.



MRS BULLETIN

www.mrs.org/publications/bulletin/

As an MRS member, you can count on your FREE monthly subscription to *MRS Bulletin* (both in print and electronic format) for the best news and research overviews available today. The technical articles in the *Bulletin* are among the most highly cited in the field of materials research, consistently ranking in the top 10 among 170 materials science journals.

Theme topics for 2004 will include:

- Applications of Nanostructured Ceramics
- New Developments in Colloidal Science
- High-Resolution 3D X-Ray Microscopy
- Advances in Carbon Nanotubes
- Building Materials from Conservation to Innovation
- Molecular Transport Electronics
- Scanning Probe Microscopy in Materials Science
- High Performance YBCO-Coated Conductors

MRS SYMPOSIUM PROCEEDINGS

www.mrs.org/publications/books/

The MRS Symposium Proceedings Series, a long-standing standard reference in many areas of materials science, now includes over 9,200 proceedings papers available FREE online to members, with more added daily. This massive database provides a critical resource for researchers entering new fields, or following new developments in established fields. It is an ideal reference for graduate students, corporate scientists and engineers, and overseas researchers needing access to current information without the lag time of printing and mail delivery.

For our more archivally-minded members, print volumes of the MRS proceedings are available at 15-30% off list price. Check the 2004 Publications Catalog or the MRS Web site for the most current listings.

MIJ-NSR

nsr.mij.mrs.org/

MRS Internet Journal of Nitride Semiconductor Research (MIJ-NSR) is a fully electronic, peer-reviewed archival journal, featuring technical papers on the leading edge of nitride semiconductor research.

JOURNAL OF MATERIALS RESEARCH

www.mrs.org/publications/jmr/

As an MRS member, you may subscribe to *JMR*, one of the foremost archival materials research journals in the world, at a very low member rate. And all print subscriptions to *JMR* include exclusive FREE online Web access—full text of all *JMR* articles from January 1996 to the current issue. New articles are posted electronically and are available for viewing approximately 4-6 weeks before the print issue arrives in the mail. For authors wishing to submit to *JMR*, we're pleased to announce that a new expedited review process has decreased the time to decision on a newly-submitted paper to below two months.

Your 2004 subscription also includes:

- **Rapid Communications**—brief reports of unusual urgency and significance to the materials research community. Upon their acceptance, preprints are immediately available through the Web to *JMR* subscribers.
- Two special focus issues of *JMR*—fundamentals and applications of instrumented indentation will be featured in the January issue; organic electronics will be highlighted in July.

E-MAIL ALERTS

www.mrs.org/alerts/

MRS Members are invited to sign up for FREE member e-mail alerts aimed at providing new materials information quickly.

- **eMatters** delivers a monthly "snapshot" of what's new in the materials research community—research news, important links, professional opportunities, and more.
- **MRS Table of Contents Alert** delivers advance table-of-contents listings for *JMR* and *MRS Bulletin*.
- **Just Published! Book Alert** provides announcements of newly published proceedings and books from MRS.
- **MRS Meetings Alert** offers regular updates on upcoming meetings and workshops from MRS—call for papers announcements, abstract submission deadlines, registration dates and discounts, program and speaker updates, etc.
- **MRS Meeting Scene**. Can't attend an MRS Meeting? This e-mail will keep you abreast of each day's exciting activities and developments.
- **MRS Public Affairs Alert** provides occasional calls-to-action and/or summaries of current public-policy issues affecting the materials science and engineering community.

CONNECT WITH GREAT MINDS

2004

MRS offers its members a broad and exciting array of networking opportunities.

MRS MEETINGS & WORKSHOPS

www.mrs.org/meetings/

The Materials Research Society has always been the "great meetings Society." In 2004, more than 7,000 members from around the world will attend MRS Meetings and Workshops, expanding their professional network of contacts through the exchange of new ideas and information. As an MRS member, you'll enjoy reduced registration fees for these events.

2004 MRS Spring Meeting/IUMRS-ICEM 2004 & Exhibit April 12-16, 2004 • San Francisco, CA

Symposium Clusters:

- Electronics, Spintronics and Photonics
- Nano- and Microstructured Materials
- Molecular, Biological and Hybrid Materials

Other symposium topics include nuclear waste management and educating tomorrow's materials scientists and engineers.

Note: The preregistration deadline is March 26, 2004.

For additional information, contact the 2004 MRS Spring Meeting Chairs: Israel J. Baumvol (UFRGS, Instituto de Fisica); James J. De Yoreo (Lawrence Livermore National Laboratory); Siegfried Mantl (Forschungszentrum Juelich); and Thomas X. Neenan (Genzyme Corporation).

2004 MRS Fall Meeting & Exhibit November 29-December 3, 2004 • Boston, MA

Tentative symposium topics include: ultrafast lasers and materials science; multicomponent polymer systems; materials and processes for nonvolatile memories; and materials aspects of fuel cells, among others.

Note: The abstract deadline is June 22, 2004.

For additional information, contact the 2004 MRS Fall Meeting Chairs: Shefford P. Baker (Cornell University); Bethanie J. Hills Stadler (University of Minnesota); Julia W. P. Hsu (Sandia National Laboratories); and Richard A. Vaia (Air Force Research Laboratory).

2004 Workshops

Plans are also underway for 2004 Workshops, smaller, highly focused meetings organized and/or coordinated by the Materials Research Society. Already scheduled:

- International Workshop on Nitride Semiconductors
July 19-23 • Pittsburgh, PA

Looking Ahead at 2005 MRS Meetings

- 2005 Spring Meeting: March 28 – April 1 • San Francisco, CA
- 2005 Fall Meeting: November 28 – December 2 • Boston, MA

MEMBERSHIP DIRECTORY

www.mrs.org/membership/

The MRS Online Membership Directory is a professional networking service available exclusively to our members. Updated regularly, it is a quick and easy way for you to search for colleagues by name, institution or geographical location.

CAREER OPPORTUNITIES

www.mrs.org/career_services/

Opportunities for you to expand your career or your company include the MRS Spring and Fall Meeting Career Centers, the most efficient forums available for pursuing employment or filling materials research positions. In addition, *MRS Bulletin* advertises a wide range of materials-related professional openings in industry, academia, government and research worldwide. Listings are also posted on the MRS Web site each month for convenient online access.

UNIVERSITY CHAPTERS & SECTIONS

www.mrs.org/university/
www.mrs.org/sections/

University Chapters facilitate discussion between students and faculty and promote student interest in materials science. As a student member in 2004, you may network among 34 active Chapters in the U.S., compare notes on recent activities and brainstorm with other students on new projects and issues of common concern. MRS Sections provide convenient regional forums for the interaction of scientists and engineers in various materials disciplines of particular interest to that community.

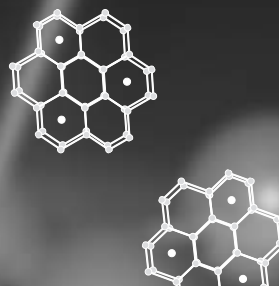
INTERNATIONAL COLLABORATIONS

www.mrs.org/gateway/iumrs.html

MRS works closely with other materials organizations around the world and is an Adhering Body of IUMRS (International Union of Materials Research Societies). This collaboration facilitates international cooperation among materials research organizations and helps to advance the multidisciplinary nature of the materials research community. Link directly to IUMRS at www.iumrs.org for general information, a list of officers, publications, and upcoming meeting information.

GAIN RECOGNITION

**You may recognize your colleagues,
or be recognized yourself, for
outstanding research contributions.**



MRS AWARDS

www.mrs.org/awards/

The MRS Awards Program acknowledges outstanding contributions to the progress of materials research, honoring those whose work has already impacted the field, as well as those whose work shows great promise for future leadership.

The **Von Hippel Award**, the Materials Research Society's highest honor, recognizes those qualities most prized by materials scientists and engineers—brilliance and originality of intellect, combined with vision that transcends the boundaries of conventional scientific disciplines. The deadline for receipt of new nominations is June 1 of each year.

The **David Turnbull Lectureship** recognizes the career of a scientist who has made outstanding contributions to understanding materials phenomena and properties through research, writing, and lecturing, as exemplified by the life work of David Turnbull. The recipient will present a technical lecture of broad appeal at the MRS Fall Meeting, and may be asked to speak at MRS Section and University Chapter meetings. Nominations are due June 1 of each year.

The **MRS Medal** recognizes an exceptional recent achievement in materials research which is expected to have a major impact on the progress of any materials-related field. Nominations are due June 1 of each year.

The **MRS Outstanding Young Investigator Award** recognizes outstanding, interdisciplinary scientific work in materials research by a young scientist or engineer. The award recipient must also show exceptional promise as a developing leader in the materials area. The deadline for receipt of new nominations is October 1 of each year.

MRS Graduate Student Awards honor and encourage graduate students whose academic achievements and current materials research display a high order of excellence and distinction. Finalists compete for Gold and Silver Medals at the MRS Spring and Fall Meetings. Applications are due approximately 5 months preceding each MRS meeting.

PUBLISHING OPPORTUNITIES

www.mrs.org/publications/

Publishing venues for MRS members include the *MRS Bulletin* and *Journal of Materials Research*. To propose a theme topic for *MRS Bulletin*, or for information on guest-editor opportunities, contact the *Bulletin* editor. For authors wishing to submit to *JMR*, we are pleased to announce that the *Journal's* new expedited review process has decreased the time to decision on a newly-submitted paper to below two months.

In addition, the MRS Symposium and Conference Proceedings Series offer opportunities to publish papers presented at MRS meetings and other scientific and technical meetings.

THE MRS/OSA CONGRESSIONAL FELLOWSHIP

www.mrs.org/pa/fellowship/

MRS, in conjunction with the Optical Society of America (OSA), is the proud sponsor of the MRS/OSA Congressional Science and Engineering Fellowship Program. This provides MRS/OSA members with an invaluable public-policy learning experience, while educating policy makers about the value of materials science.

The Fellow spends one year (beginning each September) working as a special legislative assistant on the staff of a member of Congress or Congressional Committee. Activities may involve conducting legislative work, assisting in Congressional hearings and debates, preparing briefs and writing speeches. The Fellow also attends an orientation program on Congressional and Executive Branch operations in addition to a year-long seminar series on science and public-policy issues.

Applications are currently being sought for the 2004-2005 Congressional Fellowship. The deadline for 2004 is January 15.

BECOME A VITAL PART

2004

MRS encourages you to become active within the Society as well as the larger community.

SOCIETY MEMBER VOLUNTEERS

www.mrs.org/geninfo/

The tremendous growth and success of our Society is the result of member input and the energetic efforts of many MRS member volunteers. The MRS committee structure and task forces offer members an invaluable opportunity to participate in, and influence profoundly, the operation of the Society.

A recent radical restructuring of our governance has now made such volunteer activities even more effective than they have been in the past. If you have an interest in working on any aspect of MRS activity, contact Howard Katz, 2004 MRS President at hek@lucent.com.

STRANGE MATTER

www.mrs.org/strangematter/

Strange Matter is a traveling interactive exhibition where users enter the fascinating, practical, occasionally bizarre and often beautiful world of materials science through over a dozen hands-on experiences. Targeting 5th-8th grade students and families, the Strange Matter exhibition opened in North America in June 2003 with a public preview at the Ontario Science Centre. Two versions of the exhibition will begin their three-year tours to major science centers in January, 2004. From January 31 to May 2, the exhibitions are scheduled for:

- **The National Atomic Museum**, Albuquerque, NM
- **The Liberty Science Center**, Jersey City, NJ

MRS members will have opportunities to contribute and/or volunteer their services in each of the museum's local communities. For more information, contact Richard Souza at souza@mrs.org.

A dynamic and interactive Web site (www.strangematterexhibit.com) accompanies the exhibit, and provides a number of elements that supplement the exhibit experience. Since its launch, the Strange Matter Web site has garnered significant acclaim. The Washington Times, for example, called it "an awesome immersion in the science of materials."

In addition to the Strange Matter exhibition and Web site, the Strange Matter team has developed a teacher curriculum/activity guide designed to assist teachers with integrating materials science into their 5th-8th grade science curriculums. The hands-on activities, aligned with the National Science Education Standards, are designed to encourage exploration and inquiry.

The exhibition and its tour are made possible by the National Science Foundation, Alcan Inc, Dow, Ford Motor Company Fund, Intel® Innovation in Education, and the 3M Foundation.

SPECIAL INTEREST DISCUSSION GROUP—WOMEN IN MS&E

www.mrs.org/women/

Women in Materials Science and Engineering is the subject of a special breakfast at both the MRS Spring and Fall Meetings and features a timely discussion about issues facing women in the materials research and engineering professions. Additionally, MRS members are encouraged to join the "Women in MS&E" mailing list for a continuing discussion and exchange of ideas. Both women and men are welcome to participate. Subscribe at mrs-women-subscribe@mrs.org.

HIGH SCHOOL STUDENT WORKSHOPS

www.mrs.org/pa/publicoutreach/

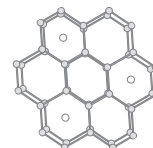
The MRS Public Outreach Subcommittee sponsors a half-day Student Workshop in conjunction with the MRS Spring and Fall Meetings on materials topics relevant to middle- and high-school-age students. This hands-on workshop introduces the concept of materials and instills the excitement of scientific discovery. Recent workshops have delved into the subjects of polymers, data storage, and materials for sports. For more information, contact Bill Hammetter, Public Outreach Subcommittee Chair, at wfhamme@sandia.gov.

CORPORATE AFFILIATION

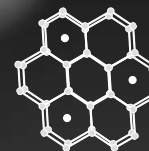
www.mrs.org/mo/corporate/

MRS Corporate Affiliates provide a vital link in the Society's promotion of close interaction among scientists and engineering professionals in the materials research community. Through networking and information exchange, your organization will be better able to develop products and services that are tailored to the needs of the research community—which in turn will generate additional partnership opportunities.

If your organization is interested in influencing the growth and direction of interdisciplinary, basic research on advanced materials, contact Mary E. Kaufold (Materials Research Society) at kaufold@mrs.org.



INVITE YOUR COLLEAGUES



To join, mail or fax this application to:

Materials Research Society
506 Keystone Drive
Warrendale, PA 15086 USA
Tel: 724-779-3003
Fax: 724-779-8313

or join online at
www.mrs.org/membership/

2004 MRS MEMBER BENEFITS

MRS Publications & Online Resources

- FREE print subscription to *MRS Bulletin* with FREE electronic access as well
- Discounted rate to *Journal of Materials Research* which includes FREE Web access
- Opportunities to purchase MRS symposium proceedings at member discounts and enjoy FREE Web access to over 9,200 proceedings papers online
- FREE registration to *MRS Internet Journal of Nitride Semiconductor Research*
- Access to FREE MRS E-Mail Alerts

MRS Networking Opportunities

- Discounted registration fees for MRS meetings and workshops
- The online MRS Membership Directory
- Career development opportunities at MRS meetings and through the *MRS Bulletin*
- Student involvement in MRS University Chapters
- Regional forums for interaction through MRS Sections
- Access to information on international collaborations such as IUMRS

Opportunities for Recognition

- The MRS Awards Program
- Publishing venues including the monthly *MRS Bulletin*, *Journal of Materials Research* and MRS symposium proceedings
- The MRS/OSA Congressional Science and Engineering Fellowship Program

Opportunities to Contribute

- MRS volunteer opportunities
- Public outreach and education opportunities including *Materials MicroWorld*, "Women in Materials Science and Engineering," and high school student workshop involvement.
- Corporate Affiliation

MEMBERSHIP APPLICATION

B

I am a new member Please renew my membership

MRS MEMBERSHIP RATES

Rates are for 12 months and include complimentary subscription to *MRS Bulletin* and FREE access to online MRS proceedings.

A. Start membership (check one): January 1, 2004 July 1, 2004

Regular Membership	\$100.00	\$ _____
Student Membership	\$ 25.00	\$ _____
Retired/Unemployed	\$ 25.00	\$ _____

B. Include a Member Subscription to *Journal of Materials Research* with FREE online access.

U.S. Member Rate	\$120.00	\$ _____
Non-U.S. Member Rate (surface)	\$160.00	\$ _____
Non-U.S. Member Rate (air freight)	\$220.00	\$ _____

C. Voluntary Contribution to support MRS student programs

(Tax deductible to contributor under U.S. tax laws.) \$ _____ 10.00

D. Total (A+B+C)

Allow 6-8 weeks for delivery of any back issues of subscriptions.
Dues allocated to *MRS Bulletin* Subscription: \$29 Regular, \$17 Student

PAYMENT INFORMATION

Check/money order enclosed—payable to **Materials Research Society**
 Bill my credit card: MasterCard VISA Diners Club American Express

Card No. _____

Signature _____ Exp. Date _____

BILLING & SHIPPING ADDRESS

Name: First _____ Middle I. _____ Last _____

Membership ID# (if renewing) _____

Institution _____ Dept./Mail Stop _____

P.O. Box _____ Street _____

Postal Code _____ City _____

State/Province _____ Zip _____ Country _____

Tel: Country Area/City Local Number _____ Fax: Country Area/City Local Number _____

E-mail address _____ WWW address _____

NOTE: The address above will also be used in future MRS Membership Directories unless you provide an alternate.

STUDENT APPLICANTS

I am currently enrolled as a full-time student, or I am working full-time on a thesis or dissertation.

Signature _____ Date _____ JAN BUL 04