





# 2017

MRS MEMBER BENEFITS  
& SOCIETY ACTIVITIES

# WELCOME

to the Materials Research Society

MRS is a growing, vibrant, member-driven organization focused on broadening the impact of materials science and technology, and improving the quality of life.

To that end, we offer our members many benefits that help advance our mission, and that our members deem important to their work and careers. These benefits include:

- ♦ **FREE** electronic access to all MRS Journals—from our flagship technical and news journal, *MRS Bulletin*, to the newest addition to our publications portfolio, *MRS Advances*
- ♦ discounted rates for MRS Meetings and Workshops
- ♦ **FREE** access to live events, content from MRS Meetings and more via MRS OnDemand® and the MRS OnDemand Webinar Series
- ♦ professional recognition via the prestigious MRS Awards Program
- ♦ opportunities to expand your career or your company via MRS Career Central
- ♦ grassroots project funding opportunities via the Materials Research Society Foundation
- ♦ access to, and inclusion in, the MRS Member Directory—an online database that allows members to add photos, a brief bio and links to social media sites
- ♦ and many more!

Our members are research professionals from industry, academia and government from around the world, and they choose MRS because it is important to their work and careers.

What you might not know about MRS is that we are expanding our professional development portfolio to better meet your career needs and to better serve the materials research community. These efforts include:

- ♦ advocating for increased and sustained funding for the physical sciences
- ♦ fostering outreach and science education for policy leaders and the general public
- ♦ promoting diversity and inclusion in the scientific workforce
- ♦ introducing prestigious new awards
- ♦ collaborating with international partners on bilateral projects

By joining MRS, you add your voice to almost 15,000 others who support these efforts and believe in the MRS mission of advancing interdisciplinary materials research to improve the quality of life.

[www.mrs.org/membership](http://www.mrs.org/membership)

# EXPAND

YOUR KNOWLEDGE



Adding to the many benefits membership offers, **MRS Members now receive FREE electronic subscriptions to the full suite of MRS journals—all hosted on the new Cambridge Core platform.** For both authors and readers, that means expanded benefits ... enhanced discoverability, high-powered faceted search, over 7,500 citation styles with RefME widget, and more.

In addition, an **Open Access option** is available for select MRS publications at discounted rates through 2017; MRS Members enjoy additional discounts.



## MRS PUBLISHING

**Do you have an idea for a new book or journal on a materials-related topic?**

Is there a materials topic that is underrepresented, or shows exceptional potential for growth within the MRS publications portfolio? If so, then submit a proposal to the Materials Research Society, where we don't just serve the materials community ... **we ARE the materials community.**

[www.mrs.org/mrs-publishing](http://www.mrs.org/mrs-publishing)

# MRS Bulletin

Discover the new digital *MRS Bulletin*! *MRS Bulletin* is one of the most widely recognized and highly respected publications in advanced materials research. Published monthly, it features technical theme topics that capture a snapshot of the state of the art of materials research. And now, in its new digital format, *MRS Bulletin* offers even more—the latest materials news and policy updates from the global materials community, career opportunities, multimedia functionality, built-in social feeds, **and for MRS members, exclusive full-text access to the technical feature articles.**

In addition, *MRS Bulletin* presents MRS OnDemand® webinars each month. Known as Webinar Wednesdays, these events complement the *MRS Bulletin*'s monthly theme topic. **Join us for the following Webinar Wednesdays in 2017:**

- January** Material Functionalities from Molecular Rigidity
- February** Stretchable and Ultra-Flexible Organic Electronics
- March** Glass Ceramics
- April** Materials Enabling Nanofluidic Flow Enhancement
- May** System Integration of Functionalized Natural Materials
- June** Next-Generation Materials for Synchrotron Radiation
- July** Electron Emission Materials
- August** 3D Bioprinting of Organs and Organs-on-a-Chip
- September** Single Atom Fabrication with Beams and Probes
- October** Materials under Pressure
- November** Catalyst Design for Nanocarbon Synthesis
- December** DNA Nanotechnology

For the most up-to-date webinar calendar, visit [www.mrs.org/webinars](http://www.mrs.org/webinars).

And don't miss **Energy Quarterly (EQ)**. Included within *MRS Bulletin* four times a year, EQ offers analysis of materials solutions to the world's accelerating need for secure, affordable and environmentally sustainable energy.

[www.mrs.org/bulletin](http://www.mrs.org/bulletin)



*Journal of Materials Research (JMR)* is a **premier archival materials science journal** devoted to publishing new research that demonstrates a significant scientific advance or understanding of interest to the materials research community.

Published bimonthly, each regular issue of *JMR* covers a wide range of materials research topics. **Special Focus Issues** devoted entirely, or in part, to a single topic are published several times a year.

#### Look for these Focus Issues in 2017:

- January** Early Career Scholars in Materials Science
- March** Aberration-Corrected Transmission Electron Microscopy
- May** Microstructural Characterization for Emerging Photovoltaic Materials
- August** Two-Dimensional Nanomaterials for Biosensors
- September** Achieving Superior Ceramics and Coating Properties through Innovative Processing
- November** Jan van der Merwe: Epitaxy and the Computer Age
- December** Mechanical Properties and Microstructure of Advanced Metallic Alloys—  
In Honor of Professor Hael Mughrabi

Now in its third year, the **Journal of Materials Research (JMR) Paper of the Year** award recognizes excellence in advancing materials knowledge through written scholarship. Nominations are solicited each January for papers published in the prior volume year. The award is announced and presented annually at the MRS Spring Meeting.

Open Access option available. [www.mrs.org/jmr](http://www.mrs.org/jmr)

## MRS Advances

Our newest journal, *MRS Advances*, is a peer-reviewed, online-only publication featuring **snapshots of work in progress on key materials topics as identified by MRS Meeting programming**. The journal covers new and emerging science and is designed to reflect the way materials researchers work, write, publish and share their results. The journal's editorial leadership ensures that high-quality research is offered to the worldwide community.

Open Access option available. [www.mrs.org/mrs-advances](http://www.mrs.org/mrs-advances)

## MRS Communications

*MRS Communications* is a full-color, online journal focused on materials research that is impactful, urgent and of broad interest to the materials community. It offers a rapid but rigorous peer-review process and time to publication, with an aggressive production schedule that will **bring your article to online publication within a target of 14 days from acceptance**.

Major article types for *MRS Communications* include research letters and Perspectives articles—forward-looking authoritative assessments of specific topics.

In 2016, the journal introduced the **MRS Communications Lecture**, recognizing excellence in materials research through work published in *MRS Communications*. Nominations are solicited each year for the prior July 1–June 30 publication cycle. The senior author of the selected paper is invited to present a lecture about the research at the MRS Spring Meeting.

Open Access option available. [www.mrs.org/mrc](http://www.mrs.org/mrc)

## MRS ENERGY SUSTAINABILITY A Review Journal

*MRS Energy & Sustainability—A Review Journal* addresses **broad perspectives in energy and sustainability as they relate to the impact of materials research on society**.

Review topics include new R&D of both established and new areas; interdisciplinary systems integration; and objective application of economic, sociological and governmental models, enabling research and technological developments. Reviews are set in an integrated context of scientific, technological and sociological complexities relating to environment and sustainability.

The intended readership is a broad spectrum of scientists, academics, policymakers and industry professionals, all interested in the interdisciplinary nature of the science, technology and policy aspects of energy and sustainability.

Open Access option available.  
[www.mrs.org/energy-sustainability-journal](http://www.mrs.org/energy-sustainability-journal)

## MRSonline PROCEEDINGS LIBRARY ARCHIVE

The *MRS Online Proceedings Library Archive* includes **more than 100,000 peer-reviewed papers**—proceedings published from Volume 1 through the 2015 MRS Spring Meeting. The *Archive* is fully searchable and can be sorted and viewed by meeting or topic.

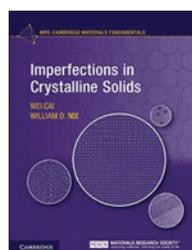
[www.mrs.org/opl](http://www.mrs.org/opl)

# EXPAND YOUR KNOWLEDGE

## Books and Textbooks from the Materials Research Society and Cambridge University Press

MRS continues to expand the breadth and scope of its Book Collection. Leading experts from around the world provide comprehensive coverage of topics spanning physics, chemistry, biology, mathematics and engineering—the full spectrum of materials research. MRS Members receive special **discounted pricing on all MRS books and textbooks**. Visit [www.mrs.org/books-textbooks](http://www.mrs.org/books-textbooks) for the latest offerings in the Collection.

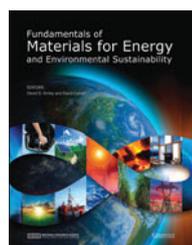
### TEXTBOOKS



#### NEW TEXTBOOK

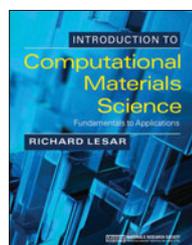
#### Imperfections in Crystalline Solids *First Textbook in the New MRS-Cambridge Materials Fundamentals Series*

**AUTHORS:** Wei Cai and William D. Nix  
**ISBN:** 9781107123137  
**List Price:** \$65.00  
**MRS Member Price:** \$52.00



#### Fundamentals of Materials for Energy and Environmental Sustainability

**EDITORS:** David S. Ginley and David Cahen  
**ISBN:** 9781107000230  
**List Price:** \$113.00  
**MRS Member Price:** \$90.00



#### Introduction to Computational Materials Science *Fundamentals to Applications*

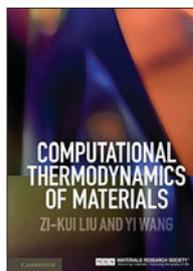
**AUTHOR:** Richard LeSar  
**ISBN:** 9780521845878  
**List Price:** \$100.00  
**MRS Member Price:** \$80.00



#### Phase Transitions in Materials

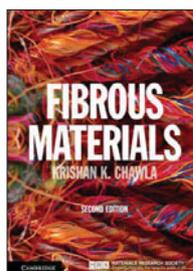
**AUTHOR:** Brent Fultz  
**ISBN:** 9781107067240  
**List Price:** \$108.00  
**MRS Member Price:** \$86.00

### NEW BOOKS



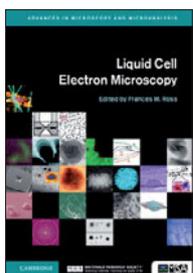
#### Computational Thermodynamics of Materials

**AUTHORS:** Zi-Kui Liu and Yi Wang  
**ISBN:** 9780521198967  
**List Price:** \$90.00  
**MRS Member Price:** \$72.00



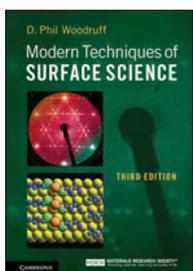
#### Fibrous Materials *Second Edition*

**AUTHOR:** Krishan K. Chawla  
**ISBN:** 9781107029729  
**List Price:** \$110.00  
**MRS Member Price:** \$88.00



#### Liquid Cell Electron Microscopy

**EDITOR:** Frances M. Ross  
**ISBN:** 9781316337455  
**List Price:** \$175.00  
**MRS Member Price:** \$140.00



#### Modern Techniques of Surface Science *Third Edition*

**AUTHOR:** D. Phil Woodruff  
**ISBN:** 9781107023109  
**List Price:** \$125.00  
**MRS Member Price:** \$100.00

Enter Discount Code **MRSMEMBER** at checkout to apply the 20% MRS Member discount.

[www.mrs.org/books-textbooks](http://www.mrs.org/books-textbooks)

## RECENT TITLES



### Biological Materials Science

#### Biological Materials, Bioinspired Materials, and Biomaterials

AUTHORS: Marc André Meyers and Po-Yu Chen

ISBN: 9781107010451

List Price: \$113.00

MRS Member Price: \$90.00

### 2015 PROSE Award Winner in Single Volume Science

#### Biomaterials and Regenerative Medicine

EDITOR: Peter Ma

ISBN: 9781107012097

List Price: \$201.00

MRS Member Price: \$161.00

### Colloidal Quantum Dot Optoelectronics and Photovoltaics

EDITORS: Gerasimos Konstantatos and Edward H. Sargent

ISBN: 9780521198264

List Price: \$144.00

MRS Member Price: \$115.00

### Elements of Slow-Neutron Scattering

#### Basics, Techniques, and Applications

AUTHORS: J.M. Carpenter and C.-K. Loong

ISBN: 9780521857819

List Price: \$180.00

MRS Member Price: \$144.00

### Introduction to Nanofiber Materials

AUTHORS: Frank K. Ko and Yuqin Wan

ISBN: 9780521879835

List Price: \$118.00

MRS Member Price: \$94.00

### Organic Electro-Optics and Photonics

#### Molecules, Polymers, and Crystals

AUTHORS: Larry R. Dalton, Peter Günter, Mojca Jazbinsek, O-Pil Kwon and Philip A. Sullivan

ISBN: 9780521449656

List Price: \$82.00

MRS Member Price: \$66.00

### 2016 PROSE Award Winner in Biological Science

#### Structural DNA Nanotechnology

AUTHOR: Nadrian C. Seeman

ISBN: 9780521764483

List Price: \$65.00

MRS Member Price: \$52.00

### Thermodynamics of Surfaces and Interfaces

#### Concepts in Inorganic Materials

AUTHOR: Gerald H. Meier

ISBN: 9780521879088

List Price: \$144.00

MRS Member Price: \$115.00

## MRS OnDemand®

MRS OnDemand hosts select presentations from past MRS Meetings, plenary and award talks, webinars, newsmaker interviews and more. Increased capabilities have allowed us to capture the brightest minds from industry and academia discussing topics surrounding materials science, and provide **FREE access to MRS Members**—complete with presentation slides.



MRS OnDemand also hosts MRS TV—an interview series dedicated to news and views from MRS Meetings. Each series features a mix of well-established, popular topics as well as leading-edge research and interviews with Meeting attendees—from MRS and Kavli Prize winners and experts in the field, to first-time attendees and long-time MRS volunteers.



Presented by *MRS Bulletin*, the MRS OnDemand Webinar Series features free, live webinars through the year that provide valuable educational information on timely, interdisciplinary topics. Expert speakers deliver knowledge on a variety of cutting-edge topics, and answer questions submitted by live viewers. This format provides a great opportunity to learn while networking with other researchers from around the world.

See the *MRS Bulletin* section on page 153 for the list of 2017 Webinar Wednesdays that complement each issue's theme topic. For the most up-to-date webinar calendar, visit [www.mrs.org/webinars](http://www.mrs.org/webinars).

From your home, office, or on the go, MRS OnDemand makes viewing important materials science content free and easy to our Society members and the materials community at large. **It's Your MRS, Your Way!**

[www.mrs.org/on-demand](http://www.mrs.org/on-demand)



This feature of the MRS website allows you to personalize the information you receive from us—identify your particular areas of interest, register for online newsletters and email alerts (see below), change your password or email address, and more.

## Email Newsletters & Alerts

MRS Members are invited to sign up for FREE member email alerts aimed at providing new materials information quickly. Below is a sampling of the emails offered.

**Materials360®** delivers bi-monthly “snapshots” of what’s new in the materials research community—the latest research worldwide, professional opportunities, important links and more.

**MRS Table-of-Contents Alerts** deliver advance table-of-contents listings for *MRS Bulletin*, *Journal of Materials Research*, *MRS Communications* and *MRS Energy & Sustainability—A Review Journal*.

**Meeting Scene** delivers daily summaries of technical presentations and events by on-the-spot reporters at MRS Spring and Fall Meetings.

**MRS Public Affairs Alert** provides occasional calls to action and/or summaries of current public policy issues affecting the materials science and engineering communities.

**INTERSECTIONS—Materials Research & Science Policy** offers a quarterly source of information about the intersection of materials research and government, including updates on what’s happening in Washington, DC, and within the government affairs activities of MRS.

[www.mrs.org/mymrs](http://www.mrs.org/mymrs)

# CONNECT

## WITH GREAT MINDS



For more than 40 years, MRS has been known as a leader in scientific meeting management. Now, MRS offers its trademark talents of meeting expertise and operational infrastructure to other scientific communities in need of conference support.

MRS Conference Services offers a perfect arrangement for both sides of the collaboration—the scientific community maintains its programming autonomy, while MRS provides its communications, logistics and business management forte.

### MRS Conference Services events for 2017:



### 75<sup>th</sup> Device Research Conference

June 25–28, 2017 | South Bend, Indiana



### 59<sup>th</sup> Electronic Materials Conference

June 28–30, 2017 | South Bend, Indiana



### International Conference on Silicon Carbide and Related Materials 2017

September 17–22, 2017 | Washington, DC

[www.mrs.org/conference-services-upcoming-meetings](http://www.mrs.org/conference-services-upcoming-meetings)

## MRS Meetings and Workshops

The Materials Research Society has always been the “great meetings Society.” In 2017, more than 13,000 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.



### 2017 MRS Spring Meeting & Exhibit

April 17–21, 2017 | Phoenix, Arizona

#### Symposium clusters:

- ◆ Characterization, Theory and Modeling
- ◆ Electronic Devices and Materials
- ◆ Energy Storage and Conversion
- ◆ Nanomaterials
- ◆ Soft Materials and Biomaterials

[www.mrs.org/spring2017](http://www.mrs.org/spring2017)



### XXVI International Materials Research Congress (IMRC 2017)

August 20–25, 2017 | Cancun, Mexico

#### Symposium clusters:

- ◆ Nanoscience and Nanotechnology
- ◆ Materials for Energy Applications
- ◆ Soft Matter and Biomaterials
- ◆ Structural Materials
- ◆ Material Characterization
- ◆ Functional Materials
- ◆ General
- ◆ Materials for Electronic, Magnetic and Optical Devices

[www.mrs.org/imrc-2017](http://www.mrs.org/imrc-2017)



### 2017 MRS Fall Meeting & Exhibit

November 26–December 1, 2017  
Boston, Massachusetts

#### Symposium clusters:

- ◆ Broader Impact
- ◆ Biomaterials and Soft Materials
- ◆ Electronics, Magnetics and Photonics
- ◆ Energy and Sustainability
- ◆ Nanomaterials
- ◆ Processing and Manufacturing
- ◆ Theory, Characterization and Modeling

[www.mrs.org/fall2017](http://www.mrs.org/fall2017)



MRS Career Central is a one-stop shop for all your career development needs.

Hosted on our Career Central website, the **MRS Job Board is free to job seekers**, serving as the first place to turn to find job openings in the materials science field. The Job Board allows quick and easy access to hundreds of industry-specific job listings, anonymous resume posting and job-alert options to meet your specific needs.

**Career Fairs** at MRS Spring and Fall Meetings continue to serve as forums to expand your career or your company—providing on-site job interviews, mentoring sessions, resumé critiques and mock interviews.

As part of MRS Career Central, **Professional Development** opportunities are offered at MRS Meetings to help polish your career skills.

[www.mrs.org/careers-advancement](http://www.mrs.org/careers-advancement)

## MRS on Social Media

The materials landscape is constantly changing. With new research, awards, publications and conferences announced daily, it's never been more vital to stay up to date. MRS makes it easy. Connect with fellow materials scientists from around the globe, talk with exhibitors that interest you and share thoughts with MRS staff through our powerful social media channels. Plus, you'll receive exclusive MRS content before anyone else.

Visit [www.mrs.org/social-media](http://www.mrs.org/social-media) today to view all of our social media channels.

## Member Directory

The MRS Online Member 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.

Now you can add pictures, a short bio and links to your social media profiles, making your connections to MRS Members a personalized experience. Log on today to make sure your account is up to date!

[www.mrs.org/member-directory](http://www.mrs.org/member-directory)

## University Chapters

University Chapters are a vital part of MRS, **facilitating discussion between students and faculty and promoting student interest in materials science**. As a student member, the international University Chapter Program provides the opportunity to network among over 100 active Chapters from around the world, compare notes on recent activities and brainstorm with other students on new projects and issues of common concern.

[www.mrs.org/university-chapters](http://www.mrs.org/university-chapters)



# MRS AWARDS

# GAIN RECOGNITION



## PUBLISHING OPPORTUNITIES

Publishing venues for MRS Members include *MRS Bulletin*, *Journal of Materials Research (JMR)*, *MRS Communications*, *MRS Energy & Sustainability—A Review Journal* and the new *MRS Advances*.

- ◆ To propose a theme topic for *MRS Bulletin*, or for information on guest-editor opportunities, contact the *Bulletin* editor at [rao@mrs.org](mailto:rao@mrs.org).
- ◆ Authors wishing to submit to *JMR* should visit [www.mrs.org/jmr](http://www.mrs.org/jmr) for complete author instructions.
- ◆ For information about submitting to *MRS Communications*, visit [www.mrs.org/mrc](http://www.mrs.org/mrc).
- ◆ To submit a proposal to *MRS Energy & Sustainability—A Review Journal*, visit [www.mrs.org/energy-sustainability-journal](http://www.mrs.org/energy-sustainability-journal).
- ◆ *MRS Advances* offers opportunities to publish papers presented at MRS Meetings and other scientific and technical meetings. Visit [www.mrs.org/mrs-advances](http://www.mrs.org/mrs-advances).
- ◆ To propose new books or other publications, contact the MRS Principal Development Editor at [fleischer@mrs.org](mailto:fleischer@mrs.org).

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.

[www.mrs.org/awards](http://www.mrs.org/awards)

The **MRS Fellow** honors members who are notable for their sustained and distinguished contributions to the advancement of materials research worldwide. This designation is highly selective. The maximum number of Fellows that may be appointed in each year is limited to 0.2% of the current professional MRS membership. Nominations are due August 1 of each year.

The **Von Hippel Award** is the Materials Research Society's highest honor and 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. Nominations are due April 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. Nominations are due April 1 of each year.

The **Innovation in Materials Characterization Award** honors an outstanding advance in materials characterization that notably increases our knowledge of the structure, composition, *in situ* behavior under outside stimulus, electronic, mechanical, or chemical behavior, or other characterization feature, of materials. Nominations are due August 1 of each year.

The **Mid-Career Researcher Award** recognizes exceptional achievement in materials research made by mid-career professionals. This annual award is intended to honor an individual who is between the ages of 40 and 52 at the time of nomination and has demonstrated notable leadership in the materials field. Nominations are due August 1 of each year.

The **Materials Theory Award** recognizes exceptional advances made by materials theory to the fundamental understanding of the structure and behavior of materials. This award is intended to honor both those who have pioneered the development of a new theoretical approach and those who have used existing approaches to provide significant new insight into materials behavior. Nominations are due April 1 of each year.

# MRS CONGRESSIONAL SCIENCE & ENGINEERING FELLOWSHIPS

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

The **Outstanding Young Investigator Awards** recognize outstanding interdisciplinary scientific work in materials research by young scientists or engineers. The award recipients must also show exceptional promise as developing leaders in the materials area. Nominations are due August 1 of each year.

The **Kavli Foundation Early Career Lectureship in Materials Science** recognizes an early-career scientist who has made a significant contribution to the science of materials through experimental and/or theoretical research. Nominations are due April 1 of each year.

The **MRS Postdoctoral Awards** recognize postdoctoral scholars who show exceptional promise that may include, for example, excellence in scientific research, leadership, advocacy, outreach, or teaching, during their postdoc assignment. These awards are presented at each Spring and Fall Meeting.

**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 Awards at the MRS Spring and Fall Meetings. Applications are due approximately five months preceding each MRS Meeting.

The **Arthur Nowick Graduate Student Award**, which honors the late Dr. Arthur Nowick and his lifelong commitment to teaching and mentoring students in materials science, recognizes a Graduate Student Award finalist who shows particular promise as a future teacher and mentor. This award is presented at each Spring and Fall Meeting.

## NEW MRS AWARD

The **MRS Impact Award** honors outstanding individuals who have displayed excellence in areas of science communication, education, advancing diversity, mentoring, or community engagement, which reflect the Society's pursuit to advance materials science and technology to improve the quality of life. The first Award will be presented at the 2017 MRS Spring Meeting. Nominations are due August 1 of each year.

The United States Congress is one of the primary policy drivers affecting the progress of science, technology and society. MRS Congressional Science and Engineering Fellows leverage their scientific and technical experience to shape and inform policy made in the Legislative Branch. **Now's your chance to make a difference!**

The Materials Research Society sponsors two materials scientists to engage in the federal policymaking process, while learning firsthand about the intersection of science and policy.

During your one-year as a Fellow you will:

- ◆ be fully immersed in congressional policymaking through placement in a specific congressional office
- ◆ contribute widely to the effective use of materials science knowledge in government
- ◆ broaden awareness about the value of scientist- and engineer-government interaction among society members and within government
- ◆ network with more than 300 other participants of science and technology fellowship programs

Information and application deadlines may be found online.

[www.mrs.org/congressional-fellows](http://www.mrs.org/congressional-fellows)



# BECOME

A VITAL PART



MATERIALS RESEARCH SOCIETY  
FOUNDATION

The Materials Research Society Foundation was created in 2012 to enhance and expand support for projects that are timely and meaningful to the materials community.

In just over four years, the Foundation has helped us to:

- ♦ expand our MRS University Chapters Program globally, now with over 100 Chapters around the world
- ♦ provide free or discounted MRS memberships for individuals working or studying in developing countries
- ♦ provide education modules on sustainable materials for elementary and middle school students with diverse ethnic, social and economic populations
- ♦ offer 14 prestigious awards annually, with over 90 MRS Members honored each year
- ♦ educate students about polymer chemistry and materials science using live demos and a modified version of the popular game, Minecraft
- ♦ and so much more!

But there is still a lot of work to do. With your help, we can fund even more exciting and innovative member-driven initiatives—from student chapter proposals, to local or regional education/outreach projects, to those with the potential to impact the materials enterprise worldwide.

To learn how you can help make a difference, or to apply for project funding, we invite you to explore the Foundation website.

[www.mrs.org/foundation](http://www.mrs.org/foundation)



**Strange Matter. Green Earth.**

Experience the Power of Materials for a Sustainable World—The Stuff That Matters

Strange Matter Green Earth is a pioneering new educational venture by MRS to create an international traveling science exhibition that will enable millions of people across the globe to **discover ways in which advances in materials can lead to a more sustainable future**. A team of science educators, science center professionals and materials researchers from three continents—North America, South America and Europe—is working to create an exhibition that will inform, engage and inspire exhibition attendees about how materials profoundly influence the quality of our lives and the planet. Interactive exhibit experiences and dynamic community programs will emphasize materials, from the mundane to the mysterious, and highlight ways in which materials scientists worldwide are playing a major role in a sustainable world.

Building on the incredible success of the MRS Strange Matter traveling exhibition, Strange Matter Green Earth aims to empower the world's citizens to make sustainable choices in their own lives and communities.

For more information about Strange Matter Green Earth or how you can help with this project, please contact Richard A. Souza, [souza@mrs.org](mailto:souza@mrs.org).

[www.mrs.org/strange-matter-green-earth](http://www.mrs.org/strange-matter-green-earth)



MRS is proud to announce **Companhia Brasileira de Metalurgia e Mineração (CBMM)** as the first sponsor of Strange Matter Green Earth.

## FOCUS ON Sustainability

Putting a materials spotlight on sustainability

Focus on Sustainability is a new MRS initiative designed to raise awareness of the nexus between materials research and sustainable materials practice.

Meeting the challenges of sustainable development requires an integrated approach that places materials science in the context of societal, environmental and economic drivers. In recognition of this need, **MRS is increasing its emphasis on sustainability to help members discover the valued role of sustainable materials practices to a sustainable world**, and to develop members' technical expertise and understanding of the complex interrelationships between materials science and other disciplines.

Help build an MRS community of shared practice on all things sustainable, including research, funding, education, public outreach, corporate social responsibility, and MRS Meeting activities and publications.

[www.mrs.org/sustainability](http://www.mrs.org/sustainability)



MRS is partnering with faculty from engineering, liberal arts and science and education departments at the University of Florida to develop an introductory-level materials science course suitable for undergraduate and community college students. **This project changes the conversation about the separation of the humanities and science fields through the creation of a collaborative, interdisciplinary, project-based undergraduate course examining the impact of materials on society.** Due to the success of the IMOS course, an *Impact of Chemistry on Society* course is in development and will bring chemistry, materials science and engineering studies into dialogue with the humanities.

[www.mrs.org/imos-course](http://www.mrs.org/imos-course)



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, two sizes of the exhibition are currently touring international science centers.

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

[www.mrs.org/strange-matter](http://www.mrs.org/strange-matter)



## Public Advocacy

MRS strives to contribute to the development of science and technology policy by responding to, and initiating, opportunities to interact nationally and internationally with government officials as well as public and private organizations. Led by the Government Affairs Committee (GAC), these efforts have been far-reaching, consistent and unbiased, building trust and respect in Washington, DC, both on Capitol Hill and within government agencies. **Ultimately, however, the key constituency is you—the MRS Member—and GAC is working hard to make your voice heard!**

For 2017, MRS will continue to build on its accomplishments—strengthening relationships and building new ones through Congressional visits, establishing itself as a scientific resource for policymakers, extending its relationships with leadership in federal agencies, and collaborating in the U.S. and abroad with sister societies and other advocacy organizations when a larger voice for science is required.

[www.mrs.org/advocacy](http://www.mrs.org/advocacy)

## Society Member Volunteers

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 committees and task forces offer members an invaluable opportunity to participate in, and influence profoundly, the operation of the Society.** If you have an interest in working on any aspect of MRS activity, contact [volunteer@mrs.org](mailto:volunteer@mrs.org).

[www.mrs.org/get-involved](http://www.mrs.org/get-involved)

## Broadening Participation in Materials Science

Supporting the MRS core value of “being broadly inclusive and egalitarian,” MRS is committed to identifying strategies to promote diversity and inclusion within the broad professional community and to sharing ideas and approaches that help support and encourage people who are currently underrepresented in materials science and engineering. Visit [www.mrs.org/broadening-participation-in-materials](http://www.mrs.org/broadening-participation-in-materials) to learn about the variety of the Society initiatives and activities designed to promote diversity and inclusion.

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