



2010 in Review

People  
Events Places  
Premieres  
& Previews

—that defined the year



MATERIALS RESEARCH SOCIETY—Advancing materials. Improving the quality of life.

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# 2010

Yet another exciting  
chapter in the  
dynamic story of the  
Materials Research Society

The Materials Research Society is a growing, vibrant, member-driven international organization focused on broadening the impact of materials science and improving the quality of life. That focus and commitment to technical excellence was never more evident than in 2010—it was a year catalyzing a new era of MRS publications and meetings. MRS also enhanced its services to members in outreach and advocacy, increasing public and government awareness of the importance of materials science. We continued to move forward strategically, focusing on multi-year initiatives and laying a strong foundation for continued impact in 2011.

The dynamic and strategic nature of MRS was illustrated in June 2010, when MRS announced its partnership with Cambridge University Press. Like MRS, this kindred nonprofit organization has worldwide reach and a common goal of advancing high-quality science. Together, we committed to increasing the accessibility and impact of the current MRS suite of publications and to building a broader and more global communications portfolio. In fact, the first of many new publishing ventures expected to result from the partnership—*MRS Communications*—was commissioned at the 2010 MRS Fall Meeting. This new “letters and perspectives” journal will debut in 2011.

MRS has long been known as a “great materials meetings society” and 2010 offered only more evidence of the same. While the meetings portfolio continues to grow, with new workshops and collaborative international efforts, our MRS Spring and Fall Meetings attracted a record number of attendees. Over 10,000 of the best minds in science were on hand in San Francisco and Boston and projections for 2011 indicate additionally increased participation. Our partnership with Sociedad Mexicana de Materiales for the XIX International Materials Research Congress also drew increased attendance and the Board has approved a continuation of this partnership through 2014.

In addition to our focus on building and growing a better MRS, we also strive to give materials science a clear and easily understood public voice. MRS is a true advocate for science, communicating with students, governments and the public as a whole. To that end, our multilingual, interactive science museum exhibit, *Strange Matter*, expanded its tour of North America, with stops in Quebec, Montreal, Sudbury Ontario and Cleveland, Ohio en route to Toluca, Mexico. Through our partnership with the Nanoscale Informal Science Education (NISE) Network, we participated in the USA Science and Engineering Festival in Washington, D.C. We also teamed with NOVA to produce a four-part PBS primetime series on materials entitled *MAKING STUFF—Stronger, Smaller, Cleaner, Smarter*. The series debuted in early 2011, with the first episode alone reaching 5.7 million viewers!

In the international arena, MRS broadened its advocacy efforts with policymakers and professional societies in Europe, China, Africa and North America. With persuasive, easily-accessible resources like *Advanced Materials for Our Energy Future*, and events like the African Roundtable Session at the 2010 MRS Fall Meeting, we continue to arm the materials community with relevant information they can use in international government forums.

The vibrancy of MRS can also be seen in the addition of nine new University Chapters in 2010.

The year 2010 was yet another exciting chapter in the dynamic story of the Materials Research Society. With almost 16,000 members spanning over 80 countries, we continue to evolve in response to the needs of the scientific community, but we remain true to our vision—creating a dynamic, interactive, global community of materials researchers advancing technical excellence.



**David S. Ginley, PhD**  
2010 MRS President



**Todd M. Osman, PhD**  
MRS Executive Director



## 2010 MRS BOARD OF DIRECTORS

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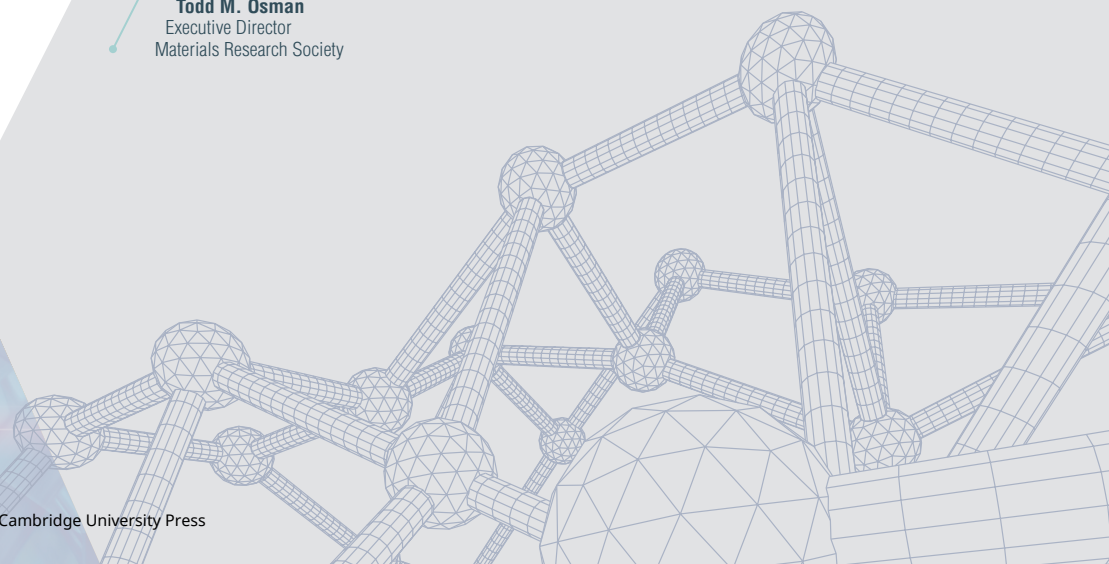
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# PEEO

The following **researchers were honored by MRS in 2010 for their outstanding contributions to the progress of materials research**—those whose work has already impacted the field, as well as those whose work shows great promise for future leadership.

## HONORS...

### VON HIPPEL AWARD

**L. Eric Cross** The Pennsylvania State University, 2010 Fall

### DAVID TURNBULL LECTURER

**David D. Awschalom** University of California, Santa Barbara, 2010 Fall

### MRS MEDAL

**Walter A. de Heer** Georgia Institute of Technology, 2010 Fall

### OUTSTANDING YOUNG INVESTIGATOR

**Mark C. Hersam** Northwestern University, 2010 Spring

### INNOVATION IN MATERIALS CHARACTERIZATION AWARD

#### Inaugural Recipients

**Warren C. Oliver** Nanomechanics, Inc., 2010 Spring

**George M. Pharr** Oak Ridge National Laboratory, 2010 Spring

### MRS FELLOWS

**30 MRS members** inducted in the 2010 class of Fellows, 2010 Spring

### FRED KAVLI DISTINGUISHED LECTURESHIP IN NANOSCIENCE

**Harry Atwater** California Institute of Technology, 2010 Spring

**Charles M. Lieber** Harvard University, 2010 Fall

### 2010-2011 MRS/OSA CONGRESSIONAL SCIENCE AND ENGINEERING FELLOW

**Ashley White** Legislative Office of U.S. Senator Al Franken (D-Minnesota)

### GRADUATE STUDENT AWARDS

**6 Gold & 16 Silver Award Winners**, 2010 Spring

**8 Gold & 16 Silver Award Winners**, 2010 Fall

### SCIENCE AS ART COMPETITION

**3 First Place & 3 Second Place Winners**, 2010 Spring

**3 First Place & 4 Second Place Winners**, 2010 Fall

### MRS MEMBERS

over **15,800** scientists and researchers—students to Nobel Laureates from more than **80** countries who are **advancing materials** and **improving the quality of life**

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# THANK YOU!

We can never say it enough. **THANK YOU!** MRS is truly grateful and dependent on ALL the volunteers—past, present and future—who offer their precious time, energy and expertise for the betterment of our Society and the materials community worldwide.

MRS OPERATING COMMITTEE CHAIRS

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**Kalpana Katti** North Dakota State University

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### PUBLIC OUTREACH

**Amy Moll** Boise State University

### PUBLICATIONS COMMITTEE (NEW)

**Paul C. McIntyre** Stanford University

### TECHNICAL PROGRAM

**Michael J. Aziz** Harvard University

MRS UNIVERSITY CHAPTERS

### 59 MRS University Chapters

promoting student interest in materials science across the United States

SPECIAL PRESENTATIONS AT MRS MEETINGS

### PLENARY ADDRESS

**Siegfried S. Hecker** Stanford University  
Nuclear Promise or Nuclear Peril? 2010 Spring

**Christopher P.J. Barty** Lawrence Livermore National Laboratory  
Creating Star Power on Earth—The Path to Fusion at the National Ignition Facility, 2010 Fall

### WOMEN IN MS&E BREAKFAST

**Mary Ann Mason** University of California, Berkeley  
Do Babies Matter in Science? 2010 Spring

**Jennifer Stancil** WQED Pittsburgh  
Girls in STEM—Inspiring the Next Generation of Scientists, 2010 Fall

### SYMPOSIUM X – FRONTIERS OF MATERIALS SCIENCE

**Mildred Dresselhaus** Massachusetts Institute of Technology  
Is Nano Always the Way? 2010 Spring

**Paul Denholm** National Renewable Energy Laboratory  
Can Renewable Energy be a Major Contributor to a Reliable Energy System? 2010 Spring

**Randy Kirchain** Massachusetts Institute of Technology  
Confronting Resource Depletion and Energy Consumption from Materials Production—Challenges and Opportunities for Materials Recycling, 2010 Spring

Panel Discussion:

**MAKING STUFF—Stronger, Smaller, Cleaner, Smarter**, 2010 Fall

**David Pogue** Host, NOVA Series—**MAKING STUFF**

**Alexander H. King** The Ames Laboratory

**Chris Schmidt** Executive Producer, Powderhouse Productions

**Amy Moll** Moderator, Boise State University

**John Rogers** University of Illinois, Urbana/Champaign  
Materials and Mechanics for Bio-Integrated Electronics, 2010 Fall

**Eberhard Umbach** Karlsruhe Institute of Technology  
New Concepts for Energy Research in Germany and Europe, 2010 Fall

**Walter A. de Heer** Georgia Institute of Technology  
Epitaxial Graphene for 21st Century Electronics, 2010 Fall



MRS has long been known as a "great meetings society"—serving as a major international stage for the examination of current and emerging materials research—and 2010 was no exception. **MRS meetings set new records in technical scope and attendance**, as researchers from around the world, and from the full spectrum of materials disciplines, convened in these well-established MRS meeting locations to educate, collaborate and advocate.

**40** technical symposia  
**4,200** oral/poster presentations  
**4,500** paid attendees  
**115** exhibitors  
**50** countries represented  
**largest** MRS Spring Meeting to date

### SAN FRANCISCO, CALIFORNIA

#### 2010 MRS Spring Meeting & Exhibit

Meeting Chairs

**Anne C. Dillon** National Renewable Energy Laboratory

**Robin W. Grimes** Imperial College London

**Paul C. McIntyre** Stanford University

**Darrin J. Pochan** University of Delaware

**22** technical symposia  
**1,850** oral/poster presentations  
**1,180** paid attendees  
**27** exhibitors  
**40** countries represented  
**largest** IMRC to date

### CANCUN, MEXICO

#### XIX International Materials Research Congress (IMRC) 2010

*Co-organized by the Sociedad Mexicana de Materiales  
and the Materials Research Society*

Meeting Chairs

**Luis Enrique Sansores Cuevas** Universidad Nacional Autónoma de Mexico

**Miguel Contreras** National Renewable Energy Laboratory

**Miguel José Yacamán** The University of Texas at San Antonio

**Darrell Schlom** Cornell University

**49** technical symposia  
**5,250** oral/poster presentations  
**5,880** paid attendees  
**230** exhibitors  
**60** countries represented

### BOSTON, MASSACHUSETTS

#### 2010 MRS Fall Meeting & Exhibit

Meeting Chairs

**Ana Claudia Arias** Palo Alto Research Center

**Robert Cook** National Institute of Standards and Technology

**Clemens Heske** University of Nevada, Las Vegas

**Shu Yang** University of Pennsylvania

# CEEDS

While MRS Spring and Fall Meetings are the heart of the meetings portfolio, MRS continued to enhance its service to the global materials community with the **MRS Workshop Series** and **collaborative international efforts**.

## MRS WORKSHOP SERIES

**SAN FRANCISCO, CALIFORNIA – April**  
Nanocontact and Nanointerconnects Workshop

**DENVER, COLORADO – October**  
Functionalized Nanobiomaterials for Medical Applications  
Photovoltaic Materials and Manufacturing Issues

**BOSTON, MASSACHUSETTS – December**  
X-Ray Scattering Methods for Characterization of Nanomaterials

## MRS COLLABORATIONS

**KARLSRUHE, GERMANY – July**  
First International Conference on Materials for Energy  
Co-organized by DECHEMA • KIT • MRS • E-MRS • NanoMat

**SAN FRANCISCO, CALIFORNIA – July**  
Organic Microelectronics & Optoelectronics VI  
A joint Workshop of ACS • IEEE • MRS

MRS has long been touted for its meeting expertise and operational infrastructure and now those trademark talents are being offered to other scientific communities in need of conference support. **In 2010, MRS partnered with these Societies—providing logistical and operational expertise.** In both instances, the scientific communities maintained their programming autonomy while taking advantage of MRS expertise in communications, logistics and business management.

**OTTAWA, ONTARIO, CANADA – June**  
American Conference on Neutron Scattering 2010  
Hosted by the Neutron Scattering Society of America

**TAMPA, FLORIDA – September**  
International Workshop on Nitride Semiconductors 2010

## 2011—A LOOK AHEAD

Meetings and Workshops of Interest to the Materials Research Community

April 25-29, 2011  
**2011 MRS Spring Meeting & Exhibit**  
Moscone West & San Francisco Marriott Marquis  
San Francisco, California, USA

May 9-13, 2011  
**MRS / E-MRS Bilateral Conference on Energy**  
Congress Center  
Nice, France

June 26 - July 1, 2011  
**7th International Dendrimer Symposium**  
National Institute of Standards and Technology (NIST)  
Gaithersburg, Maryland, USA

July 18-20, 2011  
**Organic Microelectronics & Optoelectronics VII**  
A joint Workshop of ACS • IEEE • MRS  
Westin San Francisco Market Street  
San Francisco, California, USA

August 14-19, 2011  
**XX International Materials Research Congress (IMRC) 2011**  
Co-organized by the Sociedad Mexicana de Materiales  
and the Materials Research Society  
JW Marriott Cancun Resort & Spa and CasaMagna Marriott Cancun Resort  
Cancun, Mexico

September 28 – October 1, 2011  
**MRS WORKSHOP SERIES—Directed Self Assembly of Materials**  
Nashville, Tennessee, USA

October 4-7, 2011  
**MRS WORKSHOP SERIES—**  
**Photovoltaic Materials and Manufacturing Issues II**  
Denver, Colorado, USA

November 28 – December 2, 2011  
**2011 MRS Fall Meeting & Exhibit**  
Hynes Convention Center and Sheraton Boston Hotel  
Boston, Massachusetts, USA

2010 was a year of **solid performance and growth** as well as a year of transition. Many multiyear projects came to fruition ... new ones were launched ... and a strong foundation was laid for continued impact in 2011.

# P&P Previews

JANUARY

*Journal of Materials Research (JMR)* publishes Special Focus Issue—**Photocatalysis for Energy and Environmental Sustainability**

APRIL

MRS publishes **Handbook of Modern Ion Beam Materials Analysis, 2nd Edition**; the two-volume set is revised and updated from the popular handbook previously released in 1995

MRS presents first award for **Innovation in Materials Characterization** at MRS Spring Meeting

**Advanced Materials for Our Energy Future**, a collaborative initiative of five materials societies—the American Ceramic Society (ACerS), the Association for Iron & Steel Technology (AIST), ASM International (ASM), The Minerals, Metals and Materials Society (TMS), and project leader MRS—publishes. The 24-page booklet is a reference tool for policy makers, media professionals, educators and others interested in learning more about the materials technologies that form the basis of energy creation, conservation and delivery.

JUNE

MRS announces an historic partnership with **Cambridge University Press**, launching a new era of MRS publications and communications

AUGUST

*JMR* publishes Special Focus Issue—**Materials for Electrical Energy Storage**

SEPTEMBER

**MRS Bulletin** debuts its redesign—in full color and featuring a new logo, cover design and page layout

**Energy Quarterly (EQ)** premieres in *MRS Bulletin*. This new periodic section addresses materials challenges to meet global energy and environmental needs for sustainable development.

MRS and TMS establish the **MRS/TMS Congressional Science and Engineering Fellowship**

NOVEMBER

MRS launches new quarterly electronic newsletter—**Intersections: Materials Research & Science Policy**—featuring news and information from the MRS Government Affairs Committee

**MRS Bulletin** Editorial Board approves content direction for special issue on **Materials for Sustainable Development**; publication scheduled for April 2012

DECEMBER

MRS previews the upcoming 4-part NOVA television series, **MAKING STUFF: Stronger, Smaller, Cleaner, Smarter**, at the MRS Fall Meeting

**MRS Communications**, a new “letters and prospectives” journal is commissioned at the MRS Fall Meeting

MRS announces new addition to Awards Portfolio, the **Materials Theory Award**, at MRS Fall Meeting; first award will be presented at the 2011 MRS Fall Meeting

Editorial review is under way for the 50-chapter textbook, **Fundamentals of Materials for Energy and Environmental Sustainability**, a collaborative project between MRS and Cambridge University Press



# Highlights

2011—A LOOK AHEAD

## JANUARY

MRS launches new Web site—featuring streamlined, more intuitive site navigation, robust search capability, expanded social media and social bookmarking, and enhanced Member Directory

JMR publishes Special Focus Issue—**Self-Assembly and Directed Assembly of Advanced Materials**

4-part NOVA series, **MAKING STUFF: Stronger, Smaller, Cleaner, Smarter**, premier on PBS; first episode reaches 5.7 million viewers!

MRS and Cambridge University Press announce new “letters and prospectives” journal, **MRS Communications**

MRS welcomes its 60th University Chapter

## FEBRUARY

MRS Bulletin, JMR and MRS Online Proceedings Library transition to Cambridge Journals Online (CJO) platform

American Physical Society (APS) and MRS release joint report: **Energy Critical Elements—Securing Materials for Emerging Technologies**. The report delineates a plan to secure future supplies of rare earths and other elements critical to the development of new technologies to foster U.S. energy independence.

## AUGUST

JMR publishes Special Focus Issue—**Advances in Thermoelectric Materials**

## SEPTEMBER

JMR publishes Special Focus Issue—**Nanowires: Fundamentals and Applications**

## NOVEMBER

MRS and Cambridge University Press publish **Fundamentals of Materials for Energy and Environmental Sustainability**; the unique, interdisciplinary textbook features contributions from leading experts in energy and the environment from around the world

MRS meetings offer not only outstanding technical symposia, but activities to **educate, enrich and enjoy!**

Our schedule of events is packed with professional development seminars and career opportunities, outreach activities, advocacy opportunities, government agency sessions, special science forums, and more. Here is brief look back at special events held during our 2010 MRS Spring and Fall Meetings.

# Events

## PROFESSIONAL DEVELOPMENT

**Technical Poster Design**, 2010 Spring

**Mastering Science Presentations**,  
2010 Spring and Fall

**Crafting Successful Broader Impacts Plans  
for NSF Proposals**, 2010 Spring and Fall

**Creating a Science Café—  
A Scientist Walks into a Bar...How to Start  
a Science Café**, 2010 Fall

**Women's Professional Development Workshop—  
COACHing Strong Women in the Art of Strategic  
Persuasion**, 2010 Fall

**Accreditation Board of Education and Technology  
(ABET) Re-Training**, 2010 Spring and Fall

## SCIENCE FORUMS

**Third-Generation Solar Technologies  
Multidisciplinary Workshop—Synergistic Chemistry-  
Materials-Mathematical Science Approaches  
to Addressing Solar Energy Problems**, 2010 Spring  
An NSF-sponsored workshop highlighting efforts to leverage  
physical sciences with mathematical sciences to address  
solar energy problems

**Technology Innovation Forum—Transitioning  
Materials for Future Power and Energy Needs**,  
2010 Spring  
A stage for industry leaders and venture capitalists to discuss  
their strategic goals, marketing philosophies and technology  
needs with the intent of finding a materials "match" for future  
communication, innovation and partnership

**Science Policy Forum—APS/MRS Energy Critical  
Elements Policy Study Briefing**, 2010 Fall  
An advance briefing on APS/MRS policy study; expected  
release in early 2011

**Activities and Opportunities in Africa—  
Special Roundtable Discussion**, 2010 Fall  
A discussion and networking event featuring collaborative opportunities  
in one of the fastest-growing regions of interest for materials science

An introduction to the  
**federal agencies**, their  
activities, priorities and  
funding opportunities  
in materials research

**Army Research Office (ARO)**  
David Stepp, 2010 Spring

**Defense Advanced Research  
Projects Agency (DARPA)**  
Viktoria Greanya, 2010 Fall

**Department of Energy (DOE)**  
Helen Kerch, 2010 Spring  
Linda Horton, 2010 Fall

**Department of Energy's Advanced  
Research Projects Agency—  
Energy (ARPA-E)**  
David Danielson, 2010 Spring

**National Institute of Standards  
and Technology, Technology Innovation  
Program (NIST-TIP)**  
Michael Shen, 2010 Spring  
Thomas Wiggins, 2010 Fall

**National Institutes of Health (NIH)**  
Christine Kelley, 2010 Fall

**National Science Foundation (NSF)**  
Zakya Kafafi, 2010 Spring  
Thomas Rieker, 2010 Fall

**Office of Naval Research (ONR)**  
Julie Christodoulou, 2010 Spring

DEVELOPMENT AT MRS MEETINGS

PROFESSIONAL DEVELOPMENT & PROFESSIONAL TALENT  
SPECIAL SCIENCE FORUMS

SESSIONS AT MRS MEETINGS  
GOVERNMENT FUNDING

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## OUTREACH & EDUCATION

MRS has developed a far-reaching series of **educational outreach programs** to engage K-12 students and teachers and the general public on the significance of science in their daily lives and the opportunities it holds for future career paths. Noteworthy in 2010...

MRS partners with **Kid's Science Challenge**, a nationwide science competition for students in grades 3 to 6

MRS Public Outreach Committee, with the Nanoscale Information Science Education (NISE) Network and NOVA *MAKING STUFF*, participate in the **USA Science and Engineering Festival** in Washington, D.C.

MRS partners with WBGH Boston to launch **NOVA MAKING STUFF national education and outreach campaign**

MRS continues its partnership with **Discoveries and Breakthroughs Inside Science (DBIS)**—a syndicated science and engineering news service which brings 90-second stories, in both English and Spanish, to the public, showcasing ways in which science influences our daily lives. Through 2010, 41 materials stories reach an estimated 62 million television viewers.

## 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 MRS Government Affairs Committee, efforts have been robust, consistent, and unbiased, building trust and respect in Washington, D.C., both on Capitol Hill and within government agencies. Notable in 2010...

MRS logs a record-breaking 4716 emails/letters sent to Congress and the Administration during **Materials Voice** letter-writing campaigns

MRS hosts the first **Government Agency Leadership Summit** in Washington, D.C., bringing together leaders from the federal funding agencies' materials programs and the professional materials societies

MRS conducts its annual **Congressional Visits Day** with new, more sophisticated training, messaging and materials for its 32 participants

## 2011—A LOOK AHEAD

### FEBRUARY

APS/MRS hold well-attended press conference in Washington, D.C. on release of joint report, **Energy Critical Elements—Securing Materials for Emerging Technologies**

**Strange Matter**, the MRS traveling materials science museum, opens for the first time in Mexico (Toluca), at the Museo Modelo de Ciencias e Industria, with bilingual presentations in English and Spanish

### MARCH

**DBIS** adds three additional materials stories to its news service

### APRIL

MRS conducts annual **Congressional Visits Day**

MRS holds second **Technology Innovation Forum—Transitioning Materials for Future Power and Energy Needs** at MRS Spring Meeting

### JULY

MRS/TMS host **2nd Government Agency Leadership Summit** in Washington, D.C.

### OCTOBER

MRS hosts **2011 World Materials Summit**, a collaborative forum co-sponsored by the European MRS (E-MRS) and the Chinese MRS (C-MRS). This is an invitation-only gathering of world-renown technical experts and policymakers, assembling to focus on the materials research needs of our emerging energy economy. The inaugural **Student Congress** at the Summit includes graduate students and postdoctoral associates selected from around the world.

# MRS Corporate Affiliates

Materials Research Society would like to thank  
the following for their financial support:

(as of March 2011)

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University of Kansas  
Universal Systems Co. Ltd.  
Institute for Materials Research,  
Hasselt University  
VAT, Inc.  
VSP, an Imprint of Brill  
Wiley-VCH Verlag GmbH & Co.  
J.A. Woollam Company, Inc.  
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Zygo Corporation

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