

# 2012 Year-End Review by the Numbers

The **MATERIALS RESEARCH SOCIETY (MRS)** prides itself on being a mission-focused society. In 2012, we made great strides in moving that mission forward, creating and expanding programs, products and services to better meet the evolving needs of our members and the materials community. We believe that these efforts will yield tremendous benefits for current and future generations of materials researchers.

What better place to begin a year-end review than with a look at our service to community. Perhaps the most critical challenges still facing materials research are public awareness and support for science. Over the past decade MRS has greatly expanded its outreach efforts, developing a far-reaching series of programs that expose students, government and the general public to the excitement of discovery and the significance of science in their daily lives. In 2012 alone, our multilingual **Strange Matter** science museum exhibit completed its 10<sup>th</sup> year touring major North American cities, the NOVA series **MAKING STUFF—Stronger, Smaller, Cleaner, Smarter** was rebroadcast to over 7.8 million viewers, and we introduced a new **Science Enthusiasts** section of the MRS website. On the advocacy front, MRS has increased communication with government offices, often times in collaboration with other professional societies. In doing so, we seek to broaden awareness of science among our policymakers, highlighting the critical link between research, materials and innovation.

Going a step further, we were proud to introduce the **Materials Research Society Foundation** in October. This transformative accomplishment will allow us to focus on member engagement and funding to enrich and expand MRS programs in education, outreach, and peer recognition. The Foundation will benefit a wide range of innovative grassroots, 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—from the first project grants awarded at the 2013 MRS Spring Meeting in San Francisco.

Of course, we owe much of our success last year, as every year, to the passionate and dedicated volunteers who donate their valuable time partnering with MRS members and staff to share the excitement of cutting-edge materials research. The **MRS Spring and Fall Meetings** have long been considered our forte, and the 2012 events did not disappoint. With over 12,000 presentations in 106 symposia, MRS extended a long succession of record-setting meetings, bringing attendees a broad range of talks about research on the leading edge of materials science. The Fall Meeting Exhibit in Boston also broke records, hosting 255 exhibitors. New at the 2012 MRS Fall Meeting—**MRS TV** and **MRS OnDemand**®—creating a virtual meeting experience for those who could not attend the Meeting in person. In addition to producing an archive of award talks and other presentations, MRS live-streamed a five-day symposium on **Materials as Tools for Sustainability**, including interactive sessions with students from Uruguay and Saudi Arabia. In all, researchers from 56 countries participated, at no cost, in real-time sessions, asking questions and joining the conversation. And that is just the beginning! The recent proliferation of social media and new technologies will allow MRS to continue on this path, moving from dissemination of information to virtual engagement and global interactions unimaginable just a few short years ago.

On the communications side, MRS's partnership with **Cambridge University Press** continued to produce high-quality publications and introduce innovative new products. In June, MRS and Cambridge launched **Materials360 Online**, a website specifically designed to provide multimedia news about materials research and researchers. **MRS Bulletin** published two special issues last year—a first for MRS—with the **Materials for Sustainable Development** issue published in April and the **Graphene: Fundamentals and Functionalities** expanded issue in December. **Journal of Materials Research** produced six Focus Issues in 2012, more than ever before, devoting entire issues to hot topics in materials science. And our newest journal, **MRS Communications**, completed its first full year of publication. In addition to research letters, which form the journal's core, **MRS Communications** published four Prospectives articles, offering succinct and forward-looking reviews of topics of interest to a broad materials research readership.

International collaboration was also key to our success in 2012. Our collaborations with **Sociedad Mexicana de Materiales (SMM)** resulted in record attendance at the **XXI International Materials Research Congress** in Cancun and helped bring the Strange Matter museum exhibition to Mexico. A **joint MRS/SMM University Chapter at Cinvestav-IPN** in Mexico City was also recognized and will be a model for facilitating a worldwide University Chapter Program—an important step for fostering global interaction among future leaders of the materials community. MRS also partnered with the **Japan Society of Applied Physics (JSAP)** on 11 of 54 technical symposia at the 2012 MRS Spring Meeting, and the energy-related symposia at the MRS Fall Meeting comprised the second annual **MRS/E-MRS (European MRS) Bilateral Conference on Energy**.

As we close yet another chapter in the dynamic story of the Materials Research Society, we are again reminded of our members, volunteers, partners, exhibitors, sponsors and headquarters staff—without whom these incredible accomplishments would not have been possible. **Together, we continue to evolve in response to the needs of the scientific community, while remaining true to our mission ... to advance materials ... and to improve the quality of life.**

**Bruce M. Clemens, PhD**  
2012 MRS President

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

**MRS MATERIALS RESEARCH SOCIETY**  
Advancing materials. Improving the quality of life.

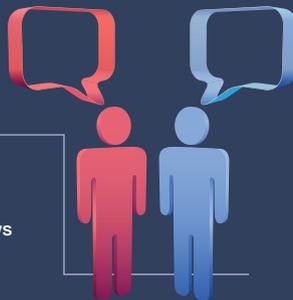
24 million  
5,115 7,499  
3.1 million 15,992  
14.6 million  
100,000  
602  
1.5 million  
31,212 14,015 80 250  
1,235

# 2012 BY THE NUMBERS

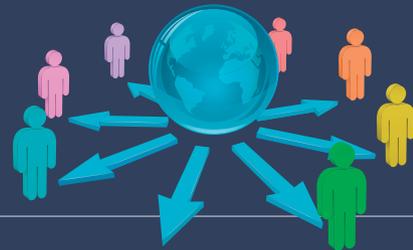
Looking back on 2012, we are delighted to see all the **Materials Research Society** has accomplished. With help from our members, volunteers, exhibitors, sponsors, partners and headquarters staff, our Society has truly flourished. We are pleased to present a year-end review summary of some of our biggest achievements this past year.



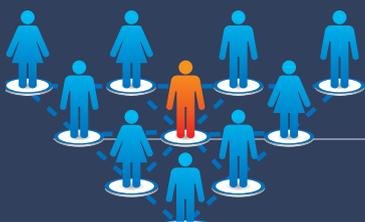
- served an MRS membership of almost **16,000**
- furthered our global reach by representing men and women from over **80** countries around the world in our membership and meetings
- boasted **71** University Chapters internationally
- announced the Materials Research Society Foundation, which advances **1** mission—to promote communication for the advancement of interdisciplinary materials research to improve the quality of life



- acquired **3.4 million** page views on the newly redesigned MRS website
- strengthened MRS presence on social media, generating viral reach of **63,024** on Facebook alone
- launched the new MRS news site, *Materials360 Online*, yielding **11,000** page views a month
- introduced MRS OnDemand®, allowing **1,208** people in **59** countries access to both live and recorded talks from the 2012 MRS Fall Meeting



- broke Spring Meeting attendance records with **5,975** on-site at the 2012 MRS Spring Meeting in San Francisco
- hosted **7,792** on-site attendees at the 2012 MRS Fall Meeting, making it the largest MRS Fall Meeting ever
- sold out the 2012 MRS Fall Meeting exhibit space with a record-breaking **310** exhibitor booths
- accommodated **673** job seekers at the Fall and Spring Meeting Career Centers
- achieved record attendance of **1,339** at the XXI International Materials Research Congress (IMRC), held in partnership with the Sociedad Mexicana de Materiales (SMM)
- managed six events, with a cumulative attendance of **1,268**, for external scientific communities, providing communications, logistical, and operational expertise through the MRS Conference Services program



- honored **86** MRS members through the MRS Awards Program
- presented the **1<sup>st</sup>** Arthur Nowick Graduate Student Award at the 2012 MRS Fall Meeting in Boston



- increased combined abstract views across all MRS publications, now hosted on Cambridge Journals Online (CJO), by almost **3** times over past year, for a total of **5.8** million
- brought articles to publication within **14** days from acceptance in the new journal, *MRS Communications*
- ranked in the top **10** percent of materials science journals with *MRS Bulletin*
- published **6** special focus issues of *Journal of Materials Research (JMR)*, with five already planned for 2013
- offered libraries and members online access to over **100,000** proceedings papers in the *MRS Online Proceedings Library (OPL)*
- achieved a readership of over **63,000** for the *Materials360*® newsletter



- reached **7.8 million** viewers through the rebroadcast of the four-part PBS primetime series on materials, *MAKING STUFF—Stronger, Smaller, Cleaner, Smarter*
- continued to bring materials research to the public with the **10<sup>th</sup>** year of the traveling exhibit, *Strange Matter*
- enabled **3,490** letters to be sent to Congress through *Materials Voice*

## 2012 MRS Officers

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2013 MRS  
SPRING  
MEETING  
& EXHIBIT



EXHIBITORS

Moscone West | Level 1

Tuesday, April 2 • 9:30 am – 6:00 pm | Wednesday, April 3 • 9:30 am – 5:30 pm

<b>1-Material Inc.</b> www.1-material.com OPV Materials; Conducting Polymers; Polymer Solar Cell	<b>Booth 126</b>
<b>2-DTech Ltd.</b> www.2-dtech.com Graphene; 2-D Materials; Graphene Oxide	<b>Booth 328</b>
<b>A &amp; N Corporation</b> www.ancorp.com Vacuum Chambers; Vacuum Flanges and Fittings; Vacuum Valves	<b>Booth 208</b>
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<b>Agilent Technologies</b> www.agilent.com/find/nano Atomic Force, Scanning Probe, Field Emission Scanning Electron and Scanning Electron Microscopes; Nanomechanical Testing Systems	<b>Booth 300</b>
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<b>AIXTRON SE</b> www.aixtron.com MOCVD/CVD/PECVD Equipment; OVPD and PVPD Equipment; ALD Equipment	<b>Booth 508</b>
<b>AJA International, Inc.</b> www.ajaint.com Sputtering Systems; Sputter Sources; Sputter Targets	<b>Booth 415</b>
<b>Aladdin Industrial Corporation</b> www.aladdin-e.com Aladdin Reagents	<b>Booth 227</b>
<b>Aldrich Materials Science</b> www.sigma-aldrich.com/matsci Biopolymers; Materials for Energy Efficiency; Electronics; Organic Electronics; Nanomaterials	<b>Booth 425</b>
<b>Alfa Aesar, a Johnson Matthey Company</b> www.alfa.com High-Purity Metals; Evaporation Materials; Ceramics	<b>Booth 504</b>
<b>Angstrom Thin Film Technologies LLC</b> www.angstrom-dep.com Atomic Layer Deposition System	<b>Booth 104</b>
<b>Annealsys</b> www.annealsys.com RTP; RTCVD; Annealing; MOCVD; Spray-CVD; LPCVD	<b>Booth 215</b>
<b>Anton Paar USA</b> www.anton-paar.com Small Angle X-Ray Scattering; SAXS; X-Ray Diffraction	<b>Booth 113</b>
<b>Asahi Spectra Co., Ltd.</b> www.asahi-spectra.com Xenon Light Source; Monochromator; Optical Filters	<b>Booth 528</b>

<b>Asylum Research, an Oxford Instruments Company</b> www.AsylumResearch.com Atomic Force/Scanning Probe Microscopes; AFM/SPM Probes	<b>Booth 313</b>
<b>Balazs NanoAnalysis, a Division of Air Liquide Electronics U.S. LP</b> www.balazs.com Analytical Testing; Materials Characterization; AMC-SMC	<b>Booth 115</b>
<b>Barnett Technical Services LLC</b> www.barnett-technical.com Scanning Probe Microscopes; Cathodoluminescence Systems; AFM-Raman	<b>Booth 527</b>
<b>BaySpec, Inc.</b> www.bayspec.com Raman Microscope; Raman Moving Lab; Raman Benchtop 1064, 785, 532	<b>Booth 207</b>
<b>Beijing Mikrouna Mechatronics Technology Co., Ltd.</b> www.mikrouna.com Glove Box; Gas Purification System	<b>Booth 125</b>
<b>Biolin Scientific, Inc.</b> www.biolinscientific.com Quartz Crystal Microbalance with Dissipation Monitoring; Farfield Dual Polarization Interferometer; Attension Theta Optical Tensiometer	<b>Booth 121</b>
<b>Bio-Logic USA, LLC</b> www.bio-logic.us Research Instruments; Battery Research; Electrochemical	<b>Booth 118</b>
<b>Blue Wave Semiconductors, Inc.</b> www.bluewavesemi.com Substrate Wafer Heaters; Thin Film Deposition Systems; Thin Films and Coating Materials; R&D Services	<b>Booth 520</b>
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<b>COSMOTEC Corporation</b> www.feedthrough.net Coaxial Feedthrough; Multi-Pin Feedthrough; Thermocouple Feedthrough	<b>Booth 228</b>
<b>CRAIC Technologies, Inc.</b> www.microspectra.com Microspectrophotometers; Raman	<b>Booth 428</b>
<b>CRC Press-Taylor &amp; Francis</b> www.crcpress.com Books; Journals; Netbase Products	<b>Booth 613</b>
<b>CrystalMaker Software Ltd.</b> www.crystalmaker.com CrystalMaker; CrystalDiffract; SingleCrystal	<b>Booth 325</b>
<b>CVD Equipment Corporation</b> www.cvdequipment.com CVD Equipment; Gas/Liquid Delivery; Gas Abatement; Nano-enabled Materials	<b>Booth 304</b>
<b>Ecopia Corp.</b> www.ecopia21.co.kr Hall Effect Measurement Systems; RTP Systems	<b>Booth 202</b>
<b>Electron Microscopy Sciences/Diatome U.S.</b> www.emsdiasum.com Laboratory Supplies; Chemicals/Adhesives/Equipment	<b>Booth 319</b>
<b>Fabsave, Inc.</b> www.fabsave.com Mask Aligner Used Equipment	<b>Booth 526</b>

<b>Fischer Technology, Inc.</b> www.fischer-technology.com Picodentor HM500; Fischerscope Micro Hardness Testers; Fischerscope XRF Instruments	<b>Booth 205</b>
<b>Fischione Instruments</b> www.fischione.com Electron Microscope Accessories; Sample Preparation	<b>Booth 309</b>
<b>FlackTek, Inc.</b> www.speedmixer.com Mixing Machines; Laboratory Mixers; High-speed Mixing	<b>Booth 531</b>
<b>Flow Sciences, Inc.</b> www.flowsciences.com VBSE Vented Balance Safety Enclosures; Hybrid Isolator; Contained Environments	<b>Booth 107</b>
<b>FUJIFILM Dimatix, Inc.</b> www.dimatix.com Dimatix Materials Printer; Dimatix Materials Cartridge; Dimatix Printheads & Systems	<b>Booth 108</b>
<b>Gamry Instruments</b> www.gamry.com Potentiostats; Quartz Crystal Microbalance; Electrochemistry Accessories	<b>Booth 226</b>
<b>Gatan, Inc.</b> www.gatan.com Materials Characterization; Nanotechnology; Photovoltaics	<b>Booth 201</b>
<b>HeatWave Labs Inc.</b> www.cathode.com Substrate Heaters; Cathodes; Ion Sources	<b>Booth 502</b>
<b>HORIBA Scientific</b> www.horiba.com/scientific Raman; Spectroscopy; Ellipsometry	<b>Booth 509</b>
<b>Hummingbird Scientific</b> www.hummingbirdscientific.com TEM Specimen Holders	<b>Booth 307</b>
<b>Hysitron, Inc.</b> www.hysitron.com TI 950 TribolIndenter; PI 95 FEI PicoIndenter; TI 750 Ubi	<b>Booth 412</b>
<b>Innovative Technology, Inc.</b> www.gloveboxes.com Glove Box Systems	<b>Booth 214</b>
<b>Integrated Dynamics Engineering</b> www.ideworld.com Vibration Isolation; EMI Cancellation; Acoustic Control	<b>Booth 533</b>
<b>IOP Publishing</b> publishing.iop.org Applied, Semiconductor, Superconductor and Material Journals	<b>Booth 612</b>
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<b>Koei Chemical Company, Limited</b> www.koei-chem.com Ionic Liquids; Nitrogen-Containing Compounds; Organometallic Compounds	<b>Booth 427</b>

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- Wine & Cheese Happy Hour Reception on Tuesday from 5:00 to 6:00 pm
- Tasty ice cream treats on Wednesday afternoon

<b>KP Technology Ltd.</b> www.kelvinprobe.com Air Photoemission, Scanning and UHV Kelvin Probe Systems	<b>Booth 507</b>	<b>NIST/CNST</b> www.cnst.nist.gov Nanoscale Research Program; Nanofabrication Facility; User Facility	<b>Booth 618</b>	<b>Semicon Equipment Inc.</b> www.semicon.com Sputtering Systems; Evaporation Systems; Custom PVD Systems & Components	<b>Booth 324</b>
<b>Kurt J. Lesker Company</b> www.lesker.com Pure Targets/Materials; Vacuum Components; Thin Film Deposition Systems; UHV Manipulation; ALD	<b>Booth 301</b>	<b>Nor-Cal Products, Inc.</b> www.n-c.com Vacuum Chambers; Flanges & Fittings; Valves	<b>Booth 408</b>	<b>Simpleware Ltd.</b> www.simpleware.com Imaging Processing Software; Mesh Generation Software	<b>Booth 103</b>
<b>Labtec Sales Partners LLC</b> www.labtecsp.com Maskless Lithography Systems; ALD Systems; Deposition Systems	<b>Booth 219</b>	<b>NT-MDT Co.</b> www.ntmdt.com SPM/AFM/STM; Raman TERS; Spectroscopy	<b>Booth 212</b>	<b>Solartron Analytical (AMETEK)</b> www.solartronanalytical.com ModuLab MTS; 1260 Impedance Analyzer; Cryostats and Furnaces	<b>Booth 318</b>
<b>Lake Shore Cryotronics, Inc.</b> www.lakeshore.com Probe Stations; Hall Effect Systems; Cryogenic Instruments and Sensors	<b>Booth 308</b>	<b>Omicron Nanotechnology USA, LLC</b> www.omicron-instruments.com UHV SPM; Surface Science Instrumentation; MBE	<b>Booth 315</b>	<b>SonoPlot, Inc.</b> www.sonoplot.com Microplotter; Printed Electronics; Materials Printer	<b>Booth 220</b>
<b>Lucas Scientific LLC</b> www.lucasscientific.com Portable Mechanical Testers	<b>Booth 327</b>	<b>Optofluidics, Inc.</b> www.optofluidicscorp.com	<b>Booth 133</b>	<b>SPECS Surface Nano Analysis, Inc.</b> www.specs.com JT Scanning Tunneling Microscope; NAP PHOIBOS Energy Analyzer; Curlew SPM	<b>Booth 203</b>
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<b>National Nanotechnology Infrastructure Network</b> www.nnin.org Nanofabrication; Nanotechnology	<b>Booth 620</b>	<b>RKI Instruments, Inc.</b> www.rkiinstruments.com Photoelectron Spectrometer	<b>Booth 119</b>	<b>Vigor Gas Purification Technologies Inc.</b> www.vigor-glovebox.com Glove Box; Gas Purification System; Solvent Purification System	<b>Booth 225</b>
<b>National User Facility Organization</b> www.nufo.org	<b>Booth 625</b>	<b>Rocky Mountain Vacuum Tech, Inc.</b> www.rmvac.com Vacuum Equipment; Vacuum Components	<b>Booth 230</b>	<b>WITec Instruments Corp.</b> www.witec-instruments.com Confocal Raman Microscopy; Scanning Near-Field Microscopy; Atomic Force Microscopy	<b>Booth 100</b>
<b>Neocera, LLC</b> www.neocera.com Pulsed Laser Deposition Systems; Pulsed Electron Deposition Systems	<b>Booth 314</b>	<b>Royal Society Publishing</b> royalsocietypublishing.org/journals Journals	<b>Booth 615</b>	<b>XEI Scientific, Inc.</b> www.evactron.com Remote Plasma Decontaminators for SEM, TEM and FIB Chambers; Sample Precleaning	<b>Booth 524</b>
<b>Netzsch Instruments N.A. LLC</b> www.netzsch-thermal-analysis.com Thermal Analysis; Thermal Conductivity; Thermal Expansion; Calorimetry	<b>Booth 521</b>	<b>RSC Publishing</b> www.rsc.org/publishing Journals; Books	<b>Booth 602</b>	<b>Xradia</b> www.xradia.com UltraXRM; Versa XRM; UltraSPX/XRM for Synchrotron	<b>Booth 105</b>
<b>NIST</b> www.nist.gov/srm Standard Reference Materials; Data and Calibration Services	<b>Booth 619</b>	<b>Seki Diamond Systems</b> www.sekidiamond.com Microwave Plasma CVD Systems; Hot Filament CVD Systems; Plasma CVD Systems	<b>Booth 518</b>		