



Preview: 2013 Materials Research Society Spring Meeting & Exhibit

Moscone West Convention Center,
Westin San Francisco Market Street,
and San Francisco Marriott Marquis
San Francisco, California

Meeting: April 1–5

Exhibit: April 2–3 www.mrs.org/spring2013

interconnects, sensing, and imaging will be covered.

Materials Science and Materials Chemistry for Energy will include photovoltaics, energy conversion and storage, materials science for sustainability, artificial photosynthesis, thermoelectrics, and energy materials *in situ* characterization methods.

Nanostructured Materials and Devices will feature synthesis and characterization of nanomaterials with additional symposia devoted to new trends in two-dimensional nanomaterials, ultrasmall clusters, piezotronic nanostructures, and metal oxides.

Biological, Biomedical, and Bio-inspired Materials will cover a wide range of topics including bioelectronics, organic and inorganic materials, biotechnology, and multifunctional materials. Several symposia explore the critical issues involved in interfacing biological systems with synthetic materials for regeneration, imaging, cancer therapies, and sensing. Other areas covered include cell instructive materials, cellular microenvironments and the immune response, and the functionalization of organic and inorganic materials.

The cluster on **General Materials Science** will round out the meeting with symposia on oxide and superconducting materials, ionic liquids, materials characterization, plasma and ion-beam processing, carbon interfaces, nuclear radiation detection, reversible phase transformations, extreme environments, and materials science education.

The fifth Technology Innovation Forum will be held on Thursday morning

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Meeting Chairs



Mark L. Brongersma
Stanford University



Vladimir Matias
iBeam Materials, Inc.



Rachel Segalman
University of California,
Berkeley



Lonnie D. Shea
Northwestern
University



Heiji Watanabe
Osaka University

The 2013 Materials Research Society Spring Meeting will be held April 1–5, 2013, in San Francisco, Calif. The spring meetings have grown considerably in recent years, and this year's meeting looks to be the largest yet. The scientific sessions will include many new and developing areas of materials research as well as some well-established and popular topics. To complement the scientific sessions, tutorials will provide detailed introductions to particularly exciting areas of research, while the exhibit will showcase products of interest to the materials community. The technical meeting and exhibits will be located at the Moscone West Convention Center, Westin San Francisco Market Street, and San Francisco Marriott Marquis.

Making up the core of the Meeting are the five topical clusters of the technical program.

Electronics and Photonics will include symposia with a focus on electronic and photonic materials, devices, and processing. In addition, the areas of organic electronics, and Si photonics for

2013 MRS Spring Meeting Registration Rates

	Pre-Registration Valid before 5:00 p.m. EST on March 15, 2013	On-Site Registration Valid after 5:00 p.m. EST on March 15, 2013
Member	\$495	\$595
Student Member	\$110	\$140
Nonmember	\$595	\$695
Student Nonmember	\$135	\$165
Retired/Unemployed	\$135	\$165

(April 4), with a focus on Innovation and Entrepreneurial Excellence. Designed to provide a stage for innovators, industry leaders, and venture capitalists, this year's Forum will have three sessions with invited speakers to discuss technology needs, market philosophies, and funding processes. More specifically, the Forum will provide a view of the processes a product goes through from development in a laboratory to scale-up and key licensing and legal aspects associated with innovation. Representatives from national laboratories will talk about the various government programs that are designed to foster innovation at all stages. And individuals in established industries will describe the best approaches for "technology push" and "innovation pull" that resulted in products and solutions developed to tackle a specific need.

An award ceremony will be held to honor this year's Outstanding Young Investigator and MRS Fellows as well as the recipients of the Innovations in Materials Characterization Award—endowed by Toh-Ming Lu and Gwo-Ching Wang—the Mid-Career Research Award—endowed by Aldrich Materials Science, and the Gold and Silver Graduate Student Awards. Selected award talks will be given in the Symposium X lunchtime series.

The meeting will include a plenary address and a talk by the recipient of the Kavli Lectureship on Nanoscience, both yet to be announced.



Hotels in San Francisco

MRS receives meeting space at a greatly discounted rate as a result of contracting a large block of sleeping rooms at the official meeting hotels. In order to keep meeting costs as low as possible and minimize the financial risk to MRS, we encourage you to utilize official MRS housing while you are attending an MRS meeting. Hotels offering discounted rates for the 2013 MRS Spring Meeting are listed below.

<p>■ San Francisco Marriott Marquis 55 Fourth Street San Francisco, California 94103 877-622-3056 OR 506-474-2009 \$167/single + applicable taxes</p>	<p>■ The Westin San Francisco Market Street 50 Third Street San Francisco, California 94103 \$179/single & \$189/double + applicable taxes. Rates are based on single or double occupancy. Each additional person will be charged \$25 per day. Rate valid through February 27.</p>
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Poster sessions will be held on Tuesday, Wednesday, and Thursday from 8:00 p.m. to 11:00 p.m. at the San Francisco Marriott Marquis, Salons 7, 8, and 9.

The meeting chairs will sponsor a Best Poster Award competition, selecting re-

cipients each night on the basis of the posters' technical content, appearance, graphic excellence, and presentation quality.

The popular Science as Art competition will be again held at this Meeting. The competition is open to all regis-



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www.mrs.org/spring2013

Live updates on the go, straight from the 2013 MRS Spring Meeting!

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. 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/socialmedia today to view all of our social media channels: Facebook, LinkedIn, and Twitter.

[#s13mrs](http://www.mrs.org/socialmedia)



tered meeting attendees, with entries to be on display in the Moscone West Convention Center. Multiple first-place and second-place awards of \$400 and \$200, respectively, will be presented at the Meeting. Guidelines and the deadline for entries will be available on the 2013 MRS Spring Meeting website.

MRS will host a Career Center; services offered to attendees include access to current job postings, a resume file for prospective employers, and on-site interview opportunities.

Graduate students and members of MRS University Chapters are invited

to attend the student mixer reception. Also, chapter officers and faculty advisors are invited to attend a meeting of MRS University Chapter representatives to compare notes on recent activities and brainstorm on new projects and issues of common concern. Those interested in starting new chapters are welcome.

Presentations on funding opportunities from US government agencies and various events for professional development and public outreach are also planned.

The deadline to pre-register for the Spring Meeting is **March 15, 2013** (5:00 p.m. EST). International travelers are re-

mindful to begin the visa process early. For additional information on the Spring Meeting, contact MRS Member Services, Materials Research Society, 506 Keystone Drive, Warrendale, PA 15086-7573, USA; e-mail info@mrs.org, tel. 724-779-3003, and fax 724-779-8313.

Details of various events and activities will be published in the *Program & Exhibit Guide* available on-site. The MRS website can be accessed for updated information on confirmed talks and details on special events, for more information on obtaining a visa, and pre-registration at www.mrs.org/spring2013.

TUTORIALS

Monday, April 1, 2013 Moscone West Convention Center

Select tutorials will be available via MRS OnDemand. Visit www.mrs.org/on-demand for the most up-to-date information.

Tutorial A

Thin-Film Silicon and Related Materials for Solar Cells and Displays
9:00 am-5:00 pm | Room 2000

Tutorial C

Young Scientist Tutorial on Characterization Techniques for Thin-Film Solar Cells
9:00 am-5:00 pm | Room 2001

Tutorial D

Artificial Photosynthesis and Photovoltaics—Similarities, Differences, Knowledge Transfer
1:30 pm-5:00 pm | Room 2002

Tutorial F

Material Assembly and Testing for Batteries
1:30 pm-5:00 pm | Room 2004

Tutorial S

Growth and Characterization Techniques for Metal-Oxide Nanoscale Structures
1:30 pm-5:00 pm | Room 2003

Tutorial V

Measuring and Predicting Thermal Transport Properties
1:30 pm-5:00 pm | Room 2005

Tutorial W

Nanogenerators and Piezotronics—From Fundamental Science to Technological Applications
1:30 pm-5:00 pm | Room 2006

Tutorial DD

Fundamentals of Emerging Nonvolatile Memories
8:30 am-5:00 pm | Room 2007

Tutorial EE

Overview of Phase-Change Materials—Physics and Applications
9:00 am-5:00 pm | Room 2008

Tutorial XX

New Perspectives for Oxide Applications
1:30 pm-5:00 pm | Room 2009

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