

Preview: 2004 MRS Spring Meeting/IUMRS–ICEM 2004

Moscone West and San Francisco Marriott Hotel • San Francisco, California

Meeting: April 12–16 • Exhibit: April 13–15

Meeting Chairs:

Israel J. Baumvol

UFRGS, Instituto de Fisica

James J. De Yoreo

Lawrence Livermore National Laboratory

Siegfried Mantl

Forschungszentrum Jülich

Thomas X. Neenan

Genzyme Corporation

The 2004 Materials Research Society Spring Meeting, in conjunction with the International Union of Materials Research Societies' 9th International Conference on Electronic Materials (IUMRS–ICEM 2004), will be held April 12–16 in San Francisco, California. All 28 technical symposia will be located at the new Moscone West convention facility. The symposia will highlight advances in the synthesis, characterization, simulation, and application of materials, from understanding materials fundamentals to fabrication of devices using electronic and electro-optic materials, nanostructured and molecular materials, and biological and hybrid materials.

The technical symposia, divided into clusters, will include many new and developing areas of materials research as well as some well-established and popular topics. The four clusters are Electronics, Spintronics, and Photonics (Symposia A–L); Nano- and Microstructured Materials (M–S); Molecular, Biological, and Hybrid Materials (T–AA); and General (Symposia X on Frontiers of Materials Research, BB on Education, and CC on Scientific Basis for Nuclear Waste Management).

Most symposia start on Tuesday or later, and Symposium M on Nanoparticles and Nanowire Building Blocks begins on Monday morning. On Wednesday afternoon, Symposium A will hold a session on "20 Years of Fundamental Physics and Applications of Amorphous Silicon." A presentation on developments in high-level radioactive-waste disposal-container materials through the past 25 years will

open Symposium CC on Tuesday morning. A panel discussion will be held the next morning in this symposium to address approaches to performance assessment. Symposium X, will present overviews relating materials science and its applications to the theme of bio-organic systems. Symposium BB will include a session on nanotechnology in the classroom and end its two-day symposium on Wednesday afternoon with a panel discussion.

Symposia on electronic and optoelectronic materials will provide information on the state of the art in organic and inorganic materials, flexible electronics, novel luminescent probes, and spintronic materials. Several symposia on semiconductors will cover areas ranging from amorphous and nanocrystalline Si through integration challenges in nanoelectronics. A number of symposia will explore aspects of nanostructured materials from the synthesis of monodisperse building blocks, to the fabrication of three-dimensional arrays and applications, to energy storage. Some of the symposia will focus on emerging topics, including molecular electronics and biologically inspired materials, while others will present completely new areas, such as proteins as materials.

Poster sessions will be held in the San Francisco Marriott Hotel on Tuesday through Thursday evenings from 8:00 p.m. to 11:00 p.m. The Meeting Chairs will sponsor a Best Poster Award competition, selecting recipients each night on the basis of the posters' technical content, appearance, graphic excellence, and presentation quality. To complement the scientific sessions, tutorial sessions, held on Monday, will provide an introduction to particularly exciting areas of research. Also, the exhibit, running Tuesday through Thursday, will showcase products and services of interest to the materials community.

Special Events

The plenary talk and awards ceremony will be held Wednesday evening. Gold

and Silver Graduate Student Awards will be presented to graduate students for symposium papers that exemplify significant and timely research. This year's Outstanding Young Investigator, Piedong Yang of the University of California, Berkeley, will present his talk, "Chemistry and Physics of Semiconductor Nanowires," during the week.

IUMRS will announce the recipients of this year's Sōmiya Award for International Collaboration, which recognizes research on materials conducted by a research team whose members are drawn from at least two continents.

MRS will also host a Career Center in which services 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.

See the following pages for a matrix of symposium sessions, a list of tutorials, profiles of exhibitors, and information on hotel and transportation arrangements. International travelers are reminded to begin the visa process early. The date, time, and location of various special events will be announced in the *Program & Exhibit Guide* at the Meeting.

For additional information on the 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. The deadline to preregister for the meeting is **March 26, 2004**. The MRS Web site can be accessed for updated information on confirmed talks and details of special events, visa information, and for preregistration: www.mrs.org. 





2004 MRS Spring Meeting

Mark Your Calendar!

www.mrs.org/meetings/spring2004