

## Hurd Leads MRS Board of Directors in 2007



Alan J. Hurd



Cynthia A. Volkert



Peter F. Green

On January 1, **Alan J. Hurd** (Los Alamos National Laboratory) assumed the presidency of the Materials Research Society for 2007, after serving as vice president/president-elect in 2006. He succeeded **Peter F. Green** (University of Michigan), who now serves MRS as immediate past president.

In last fall's annual election of officers and directors, **Cynthia A. Volkert** (Forschungszentrum Karlsruhe) was elected vice president/president-elect.

The newly elected members to the MRS board of directors are **J. Charles Barbour**, Sandia National Laboratories; **Susan P. Ermer**, Lockheed Martin Advanced Technology Center; **Cherie Kagan**, IBM T.J. Watson Research Center; **James C. Sturm**, Princeton University; and **Timothy P. Weihs**, the Johns Hopkins University. They will serve three-year terms and join continuing directors **Joanna Aizenberg**, Lucent Technologies, Bell Laboratories; **Shefford P. Baker**, Cornell University; **Horst W. Hahn**, Forschungszentrum Karlsruhe; **Thomas P. Russell**, University of Massachusetts-Amherst; **Darrell G. Schlom**, Pennsylvania State University; **Bethanie J.H. Stadler**, University of Minnesota; **Richard A. Vaia**, Air Force Research Laboratory; **Kazumi Wada**, University of Tokyo; and **Ellen D. Williams**, University of Maryland.

### Alan J. Hurd

*President*

Alan J. Hurd is director of the Lujan Neutron Scattering Center at Los Alamos National Laboratory, where he has also been deputy director of the Institute of Complex Adaptive Materials since 2004. Hurd was also the interim associate director of the Center for Integrated Nanotechnologies in 2004. Prior to joining Los Alamos in 2001, he managed materials research areas at Sandia National Labora-

tories. He did a postdoc and taught at Brandeis University before joining Sandia in 1984. Hurd's research interests include neutron scattering, complex fluids, and sol-gel ceramics, for which he has three awards from Department of Energy, Basic Energy Sciences, for outstanding research. He has served on advisory boards for the DOE, Basic Energy Sciences; the National Nuclear Security Agency; the National Research Council; the National Science Foundation; and various universities.

For MRS, Hurd has served as vice president/president-elect, treasurer, secretary, counselor, board member, Membership Committee chair, Public Outreach Subcommittee chair, chair of four task forces, and co-chair of the 1994 MRS Spring Meeting. He received the 1999 MRS Woody Award and the 2004 MRS Special Recognition Award for his activities involving Materials MicroWorld, now known as Strange Matter, a science exhibition that promotes public awareness and appreciation of materials science.

### Cynthia A. Volkert

*Vice President/President-Elect*

Cynthia A. Volkert is a group leader at the Forschungszentrum Karlsruhe in Germany, where she performs studies in microstructure and mechanical properties of small metal structures. She received her PhD degree from Harvard University in 1988. She spent 10 years as a staff member at Bell Laboratories in New Jersey and four years at the Max Planck Institute for Metals Research in Stuttgart before she moved to Forschungszentrum Karlsruhe. Volkert has published many scientific papers in the field of thin films and holds several patents. She has consulted regularly with Bell Laboratories as well as with several European-based companies.

In addition to her involvement in several committees, Volkert has served MRS as

secretary, treasurer, chair of the Operational Oversight Committee for the board of directors, and has been an organizer for three symposia and as well as a meeting chair for the 2001 MRS Spring Meeting.

### Peter F. Green

*Immediate Past President*

Peter F. Green is chair of the Department of Materials Science and Engineering at the University of Michigan. He previously held the B.F. Goodrich Endowed Professorship in Materials Engineering at the University of Texas at Austin. Prior to UT Austin, he was a Department Manager in the Materials Science and Engineering Directorate at Sandia National Laboratories. He received his PhD degree in materials science and engineering from Cornell University in 1985. His research interests broadly encompass problems associated with the structure and dynamics of oxide glass melts and polymeric melts, wetting, and interfacial phenomena in soft materials. He is a fellow of the American Physical Society and the American Ceramic Society. In 2002, he received an NSF Creativity Award for his work on polymer thin films. Green is a member of the National Research Council Board on Physics and Astronomy and is chair of the NRC Solid State Sciences Committee. He has been a Divisional Associate Editor (2000–2006) of *Physical Review Letters*.

Green has been an MRS member since 1984, when he received an MRS Graduate Student Award. He has organized MRS symposia, served as a meeting chair of the 1997 MRS Fall Meeting, and was guest editor for the November 1998 issue of *MRS Bulletin* on the theme "New Functionality in Glass." He has participated in various MRS task forces and served on the board of directors, followed by his term as MRS president.

## Dimos, Galvin, Mooney, and Samwer to Chair 2007 MRS Fall Meeting



Duane Dimos



Mary E. Galvin



David Mooney



Konrad H. Samwer

The 2007 Materials Research Society Fall Meeting in Boston, November 27–December 1, will be chaired by Duane Dimos (Sandia National Laboratories), Mary E. Galvin (Air Products and Chemicals Inc.), David Mooney (Harvard University), and Konrad H. Samwer (University of Göttingen, Germany). Updated information on the meeting is available at [www.mrs.org](http://www.mrs.org).

**Duane Dimos** is director of the Materials Science and Engineering Center at Sandia National Laboratories in Albuquerque, New Mexico. The Materials Science and Engineering Center, a diverse organization of about 225 people, does research, development, and application engineering in metallurgy, ceramic science, polymer science, characterization techniques, materials modeling, and nanoscience. Dimos has been at Sandia since 1990 and has held several technical management positions since 1997. His primary research interests are in the areas of electronic ceramics, rapid fabrication methods, ceramic synthesis and processing techniques, and microsystem materials and packaging. He has published more than 130 technical papers, edited four proceedings volumes, and holds 11 patents. He received his BA degree in physics from the University of California, Berkeley, in 1980 and MS and PhD degrees in materials science and engineering from Cornell University in 1982 and 1986, respectively. He also previously worked as a senior scientist at Air Products and Chemicals Inc. and as a postdoctoral researcher in the IBM Research Division at Yorktown Heights, N.Y. Dimos is a fellow of the American Ceramic Society and a past chair of the Basic Science Division of the American Ceramic Society. He serves on the editorial board of several technical journals and university external advisory panels, and he is a member of the Solid State Sciences Committee for the National Academies.

**Mary E. Galvin** is a principal research associate at Air Products and Chemicals, Inc. in Allentown, Pa. Her expertise is in the area of the design and synthesis of electroactive polymers and oligomers. She received her MS and ScD degrees from the Massachusetts Institute of Technology. After completing her graduate studies, Galvin joined Bell Laboratories as a member of technical staff, later becoming a distinguished member of technical staff. In 1998, she joined the Materials Science and Engineering Department at the University of Delaware and became a distinguished professor of materials science in 2004. She is a fellow of the American Physical Society and has been a technical program chair for the PMSE Division of the American Chemical Society. Galvin was on the board of reviewers for *Science* and has served on the editorial boards of *Macromolecules*, the *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, and the *Journal of Macromolecular Science, Part C: Polymer Reviews*. In 2001, she was a volume organizer for *MRS Bulletin*. In addition, she has been a councilor for the Gordon Research Conferences, co-chaired materials chemistry workshops for the National Science Foundation, and served on panels for the National Research Council.

**David Mooney** is the Gordon McKay Professor of Bioengineering at Harvard University. His research is at the interface of the life sciences, engineering, and medicine, as his laboratory is developing approaches to engineer or regenerate tissues and organs. His group is taking a variety of approaches to achieve this goal, including transplanting cells, delivering proteins that make cells already in the body form new tissues, using gene therapy to grow tissues, and using biomaterials to drive regeneration. A common theme in all of these approaches is using basic bio-

logical studies to develop new design principles for synthesizing polymers that drive regeneration. He received his engineering education from the University of Wisconsin, receiving his BS degree in 1987, and the Massachusetts Institute of Technology, receiving his PhD degree in 1992. Mooney has received a number of scientific and engineering awards and serves on the editorial boards of several journals. Patents arising from his research have been licensed to a number of biotechnology companies for development.

**Konrad H. Samwer** is chair of the I. Physical Institute at the University of Göttingen, Germany. He has been active for years in the field of metastable materials, especially metallic glasses, solid-state reaction in thin films, and hydrogen in amorphous systems. In addition, he worked on magnetic oxides; he and his co-workers discovered the so-called “colossal magneto resistance effect” in thin films. He continues to work on manganite thin films and tunnel magneto resistance systems based on oxide materials. Samwer received his Diploma degree in 1975 and his PhD degree in 1981 in physics at the University of Göttingen. He then spent his postdoctoral time in 1981–1982 at the California Institute of Technology in the Department of Materials Science and made his Habilitation (postdoctoral qualification) in 1987, again at Göttingen. In 1989, he became a full professor at the University of Augsburg, where he built up the newly founded Department of Physics. After 10 years, he returned to Göttingen. Samwer received the Heinz-Maier-Leibnitz Award in 1983 for his work in metastable systems; the Honda Memorial Award from Tohoku University, Sendai, in 2003; and the Leibniz Award of the German Research Foundation in 2004. He is a member of the Göttingen Academy of Sciences.

## MRS Bulletin Volume Organizers Guide Technical Theme Topics for 2008



Yang-Tse Cheng



Rachel S. Goldman



Ramanan Krishnamoorti



Alan Sellinger

The *MRS Bulletin* 2008 volume organizers, who will guide the development of theme topics for the 2008 volume year, are Yang-Tse Cheng (Purdue University), Rachel S. Goldman (University of Michigan), Ramanan Krishnamoorti (University of Houston), and Alan Sellinger (Institute of Materials Research and Engineering, Nanyang Technological University, Singapore). Requests for instructions on submitting proposals for *MRS Bulletin* theme topics can be e-mailed to [Bulletin@mrs.org](mailto:Bulletin@mrs.org).

**Yang-Tse Cheng** will become a professor in industrial engineering and materials engineering at Purdue University in January 2007. He was most recently a technical fellow and laboratory group manager for engineered surfaces and functional materials at the General Motors Research and Development Center in Warren, Michigan. He obtained his BS degree in physics with a minor in mathematics in 1982 and his MS (1983), and PhD (1987) degrees in applied physics at California Institute of Technology. Cheng has since been with GM and has conducted research in areas such as nanoindentation modeling and characterization of mechanical properties; microscopic shape memory and superelastic effects; superhydrophobic and superhydrophilic surfaces; growth, structure, and properties of nanostructured materials; ion–solid interactions and ion-beam modification of materials; and automotive applications of new materials and processes. He has authored or co-authored more than 115 publications and holds 16 U.S. patents. He was elected a fellow of the American Physical Society in 2005. He helped organize four MRS symposia and was one of the meeting chairs for the 2005 MRS Fall Meeting. He currently serves on the MRS Membership Committee and is one of the principal editors for the *Journal of Materials Research*.

**Rachel S. Goldman** is an associate professor of materials science and engineering, applied physics, and electrical engineering and computer science at the University of Michigan. During 2005–2006, she was the Augustus Anson Whitney Fellow at the Radcliffe Institute and a visiting scientist in the Division of Engineering and Applied Sciences at Harvard University. Goldman received her BS degree in physics from the University of Michigan, her MS degree in applied physics from Cornell University, and her PhD degree in materials science from the University of California, San Diego. Following a postdoctoral fellowship at Carnegie Mellon University, she joined the University of Michigan in 1997 as the Dow Corning Assistant Professor. Goldman's research interests are in the atomic-scale design of electronic materials, with a focus on the mechanisms of strain relaxation, alloy formation, and diffusion, and correlations between microstructure and electronic, magnetic, and optical properties of semiconductor films, nanostructures, and heterostructures. She is the author of more than 60 publications, and has received an MRS Graduate Student Award, an NSF CAREER Award, and the AVS Peter Mark Memorial Award. She has organized two MRS symposia and served on the MRS Publications Committee. She is associate editor of the *Journal of Vacuum Science and Technology A* and the *Journal of Electronic Materials*. Goldman is also serving three-year terms on the AVS board of directors, APS-FIAP Member-at-Large, and the TMS/IEEE Electronic Materials Committee.

**Ramanan Krishnamoorti** is a Professor of Chemical and Biomolecular Engineering and Professor of Chemistry at the University of Houston. He joined UH as an assistant professor in 1996, and was

promoted to professor and appointed Associate Dean for Research in 2005. After completing his PhD degree in chemical engineering from Princeton University in 1994, he had postdoctoral experiences at the California Institute of Technology and Cornell University. His primary research area is in the understanding of structure–processing–property relations for multicomponent polymeric materials, with recent extensions into biomaterials for drug delivery and development of high performance ceramic materials.

**Alan Sellinger** is a senior scientist at the Institute of Materials Research and Engineering and holds adjunct associate professor positions in chemistry and materials science at Nanyang Technological University in Singapore. His research interests are in the area of solution-processable nanocomposite dendrimers and meso-structured thin films for use in organic electronic applications such as organic light-emitting diodes (OLEDs), solar cells, and thin-film transistors. He received his BS degree in chemistry from Eastern Michigan University in 1989. After two years as a research associate at Gelman Sciences Inc., he obtained his MS and PhD degrees in macromolecular science and engineering from the University of Michigan in 1993 and 1996, respectively. He then moved to Sandia National Laboratories for postdoctoral work, and in 1998–2003 he worked as a research scientist in the industrial research and development laboratories of Canon Research Center America (Palo Alto, Calif.), and Opsy U.S. Corp. (Fremont, Calif.), for work on new nanocomposite materials for OLED technology. Sellinger has co-authored 20 scientific papers that have been cited more than 900 times. He is also a co-inventor on 15 patents. MRS