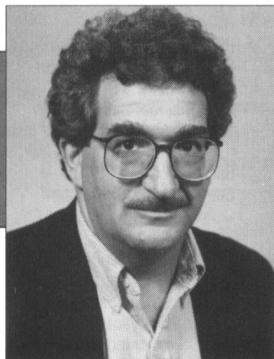
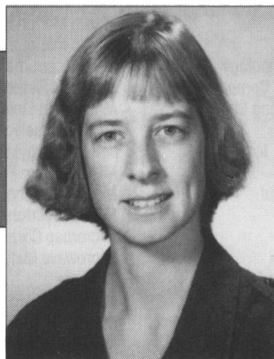


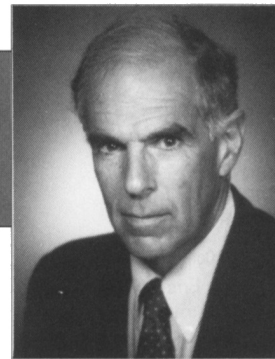
Green, Mayo, and Shapiro will Chair 1993 MRS Spring Meeting April 12-16, 1993, San Francisco, California



Martin L. Green



Merrilea J. Mayo



Stephen M. Shapiro

Martin L. Green is a member of the technical staff in the Silicon Electronics Research Laboratory at AT&T Bell Laboratories, Murray Hill, New Jersey. He has been with AT&T since 1978, when he received his PhD in materials science from the Massachusetts Institute of Technology. His undergraduate work was done at the Polytechnic Institute of Brooklyn. While at the Polytechnic Institute, he was a co-op student at the Naval Applied Sciences Laboratory. Green's current research interests are chemical vapor deposition of low-temperature epitaxial films of Si-based heterostructures. He has published many papers in the fields of metal thin film science, powder metallurgy, martensitic phase transformations, mechanical properties of ordered alloys, and magnetic materials. He is a member of Materials Research Society, TMS, and the Electrochemical Society.

Merrilea J. Mayo, an assistant professor of materials science and engineering at Pennsylvania State University, sits on the metals

faculty, and performs ceramics-oriented research. Mayo majored in materials science and engineering at Brown University, earning her baccalaureate magna cum laude and with honors. She earned master's and PhD degrees from Stanford University. Mayo then became a member of the technical staff at Sandia National Laboratories, Albuquerque, switching the focus of her work from metals to ceramics. She began to develop methods for producing nanocrystalline ceramics in a collaboration with the University of New Mexico. This work resulted in a joint patent disclosure on a method for preparing bulk quantities of non-agglomerated, nanocrystalline (13 nm) yttria-stabilized zirconia powder. Because of their ultrafine grain size, nanocrystalline ceramics made from these powders exhibit greatly enhanced superplasticity, among other special properties. Mayo was recently recognized as an NSF Presidential Young Investigator, and her work on nanocrystalline materials has been the subject of a number of invited presentations. Mayo is a member of MRS.

Stephen M. Shapiro has been involved in neutron scattering studies of solids at Brookhaven National Laboratory for the past 20 years. His major scientific interests have been in the study of structural phase transitions, including recent work on martensitic transformations. Other areas of interest to Shapiro include neutron studies of superionic conductors, spin glasses, mixed valence effects, heavy Fermions, spin dynamics in magnetic materials, and hydrodynamics in metals. Shapiro received his PhD degree in solid state physics in 1969 from Johns Hopkins University, where he was involved in some of the first studies of light scattering in solids using lasers as a source. In 1983 he was awarded a Yamada Fellowship for a stay at Osaka University, and in 1986-87 he was a Distinguished Visiting Scientist at the Laboratoire Leon Brillouin, Saclay, France. Shapiro is a fellow of the American Physical Society and a member of the Materials Research Society.



1993 MRS Spring Meeting – Tentative Symposia

- Topics in Theory of Materials Properties
- Organic Materials for Nonlinear Optical Applications
- Compound Semiconductors for Room Temperature Nuclear Detector Applications
- III-V Semiconductor Processing and Devices
- Atomic Mechanisms of Epitaxial Growth
- Materials Issues in High-Temperature Superconductivity
- Fullerenes and Related Materials
- Magnetic Ultrathin Films, Multilayers and Surfaces
- Magnetic Interfaces: Physics and Characterization
- Amorphous Silicon Technology
- Phase Transformations in Thin Films: Thermodynamics and Kinetics
- Mechanical Properties and Stresses in Thin Films
- Rapid Thermal and Integrated Processing
- Joining and Adhesion of Advanced Inorganic Materials
- Ferroelectric Thin Films III
- High-Performance Polymers and Polymer Matrix Composites
- Mechanisms of Deformation and Failure in Rocks and Ceramics
- Hydroxyapatite and Related Materials
- Materials Aspects of X-Ray Lithography
- Synchrotron Radiation Techniques in Materials Science
- Polymer-Inorganic Interfaces
- Infrared Detectors: Materials, Processing and Devices
- Si-Based Optoelectronics
- II-VI Compound Semiconductor Photovoltaic Technology
- Low-Temperature Grown III-V Semiconductors and Applications
- Rare-Earth-Doped Group IV and III-V Semiconductors
- Frontiers of Materials Science

For information about the 1993 MRS Spring Meeting, contact: Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237; telephone (412) 367-3003; fax (412) 367-4373.