


ing. King received his doctorate degree, in 1979, from Oxford University. Following a brief period as a research fellow at Oxford, King joined the Massachusetts Institute of Technology as a postdoctorate. He joined

the SUNY faculty in 1981.

At MRS, King has served on the Program Committee and its Meetings Quality Subcommittee. He was a symposium organizer at the MRS 1993 Fall Meeting and

co-chair of the MRS 1997 Spring Meeting where he implemented the Meeting Chairs' Poster Prize. He has served on the MRS Council since 1998. 

## MRS Bulletin Volume Organizers Guide Technical Theme Topics for 1999



Marie-Isabelle Baraton



Robert C. Cammarata



Steve M. Yalisove

The *MRS Bulletin* Volume Organizers for 1999 are Marie-Isabelle Baraton (University of Limoges), Robert C. Cammarata (Johns Hopkins University), and Steve M. Yalisove (University of Michigan). They have selected an eclectic set of themes for the 1999 volume of *MRS Bulletin*, representing the efforts of a distinguished and international group of guest editors and authors. The volume will start and end with issues devoted to materials characterization. The first installment will discuss synchrotron radiation techniques for *in situ* characterization during materials processing, and the final installment will be devoted to neutron scattering methods. The general area of materials chemistry will be covered in five issues involving the topics of membranes and membrane processing, corrosion science, chemical gas sensors, computer simulations of materials development and processing from thermochemical data, and the crystal chemistry of partially disordered materials. Materials science at the nanometer-length scale will be explored in three issues involving the themes of novel methods of nanoscale wire formation, the mechanical behavior of nanostructured materials, and the materials science of the cell. Issues covering rare-earth materials and advanced materials for energy storage will round out the rest of the volume. For a list of topics and guest editors for 1999, access the *MRS Bulletin* website at [www.mrs.org/](http://www.mrs.org/).

Marie-Isabelle Baraton is a senior scien-

tist in the Department of Ceramics (LMCTS, UMR CNRS) at the University of Limoges, France. She received a Doctorate in Science from the University of Limoges in 1979. In 1986 and 1987, she obtained a NATO grant to conduct research on infrared surface characterization of ultrafine powders and on Langmuir-Blodgett films in the Department of Chemistry at the University of Ottawa, and in the Lash Miller Laboratories at the University of Toronto, Canada. Baraton's current research interests include the physical-chemistry of nanomaterial surfaces (metal oxides, and non-oxide ceramics such as SiC, AlN, GaN, Si<sub>3</sub>N<sub>4</sub>...), as well as theoretical (*ab initio* calculations) and experimental studies of chemical reactions at gas-nanomaterials interfaces. Her research work finds applications in the dispersion of nanoparticles in polymeric matrices, semiconductor passivation and surface functionalization, gas sensing, self-assembled layers, and coatings. Baraton has co-authored over 100 papers, communications and book chapters, including review articles on FTIR surface characterization of nanoparticles. Baraton is currently the leader of a European consortium comprising industries and universities funded by the European Commission, working on novel gas sensors based on nanomaterials for air quality monitoring. She is a member of the American Chemical Society and the European Materials Research Society. Along with serving as a volume organizer

for *MRS Bulletin*, Baraton has organized a symposium on nanomaterials in 1997 for MRS.

Robert C. Cammarata is a professor in the Materials Science and Engineering Department at Johns Hopkins University, which he joined in 1987. He is also adjunct professor at the University of Maryland—College Park. Prior to that, he was an IBM Postdoctoral Fellow at the Massachusetts Institute of Technology from 1985 to 1987 where he worked on metal silicide formation in ion implanted thin films. Cammarata's research interests include the mechanical behavior of multilayered and nanostructures thin films and the effects of surface and interface stresses on the structure and properties of thin films and surfaces. He received his SB degree in materials science and engineering from MIT in 1979 and his PhD degree in applied physics from Harvard University in 1985. He is a Past-President of Alpha Sigma Mu (national materials honor society). Along with serving MRS as a volume organizer for *MRS Bulletin*, Cammarata has co-organized several MRS symposia.

Steve M. Yalisove is an associate professor at the University of Michigan in the Materials Science and Engineering Department. Studying mathematics at the University of Rochester, Yalisove received a Masters degree in mechanical and aerospace studies in 1979, then joined General Electric Re-Entry and Environmental Systems Division in the aerothermodynamics division. In 1986 he received a PhD degree in materials science and engineering from the University of Pennsylvania and held a postdoctorate position at AT&T Bell Laboratories. He left Bell Labs in 1989 to join the faculty at Michigan. Yalisove has studied low temperature growth of many materials including homoepitaxy of Si, epitaxy of silicides on patterned substrates, and the evolution of thin film microstructure of metallic films using surface techniques, tunneling electron microscopy, and *in situ* x-ray scattering. He recently completed a Fulbright Fellowship in The Netherlands. Along with serving as a volume organizer for *MRS Bulletin*, Yalisove has served on several MRS task forces and committees, and has co-organized several MRS symposia. 