

## COLLEGE OF SCIENCE AND MATHEMATICS

### **ANN P. FRECHETTE**

Director of External Relations

B.A. Florida State University

MS. FRECHETTE, As Director of External Relations for the College of Science and Mathematics, is responsible for identifying and developing unique collaborative opportunities with industry and public sector organizations. She was previously the Executive Director of Communications and Marketing for the University. Prior to joining Montclair State in 2005, Ms. Frechette was Vice President of Global Communications for Celanese AG, a leading global chemicals and pharmaceutical concern. She also held several executive management positions in the areas of eCommerce, Supply Chain Management, Customer Service and Distribution.

### **SHIFENG HOU**

Chemistry and Biochemistry Department

B.S. Shandong University

M.S. Hanjing University

Ph.D. Hanjing University

DR. HOU began his career in the U.S. as a postdoctoral researcher at the University of Connecticut and then as a post doctoral researcher University of Florida – Gainesville. He was most recently senior research scientist and adjunct professor at Missouri State University. His research has focused on the application of nanomaterials in biosensor, BioMEMS, self-decontamination of and biological weapon agents. He has taught general chemistry, analytical chemistry and quantitative analysis, inorganic chemistry. Dr. Hou hold 2 US patents and 4 others pending and has 40 publications (including many while a professor in China). In China, Dr. Hou was associate professor of Chemistry at Jining Medical College and then as research scientist at Beijing University.

### **ELENA PETROFF**

Biology and Molecular Biology Department

B.Sc. Kiev University

M.Sc. Kiev University

Ph.D. University of York

DR. PETROFF began her career as a postdoctoral research associate in the department of Pharmacology at Cambridge University. In 1998, she joined the department of Physiology and Biophysics at the University of Iowa as a research associate and in 2001 moved to the department of Internal Medicine as an assistant Research Scientist. Her area of research focuses on the study of the physiology and function of acid-sensing ion channels in the central nervous system which affect learning, memory and fear. Dr. Petroff has taught biochemistry, genetics, cell physiology and sensory physiology. She currently has 10 publications with another under

review at the journal "Science", 20 abstracts, and 11 presentations. She joins MSU as Assistant Professor of neuromolecular biology.

### **DIBYENDU SARKAR**

Professor and Director of the Doctor in Environmental Management Program

Department of Earth and Environmental Studies

B.Sc. University of Calcutta

M.Sc. University of Calcutta

Ph.D. University of Tennessee

DR. SARKAR was founder and director of the Environmental Geochemistry Laboratory, a research unit within the Earth and Environmental Science Department at the College of Sciences at the University of Texas at San Antonio. He has successfully obtained grants totaling more than two million dollars to support his research and masters and doctoral students and post-doctoral fellows from such agencies as the Environmental Protection Agency, Department of Defense, National Institute of Health and department of Housing and Urban Development. His research, since his graduate years, has focused on the remediation and risk management and the geochemical fate and bioavailability of chemicals in soil, water, plants, sediments, and aquifer materials. Dr. Sarkar has authored more than 60 articles and book chapters, two books, and over 100 abstracts. He has also served on editorial boards of various professional journals.

### **LYNN F. SCHNEEMEYER**

Interim Associate Dean for Academic Affairs

College of Science and Mathematics

B.A. College of Notre Dame

M.S. Cornell University

Ph.D. Cornell University

DR. SCHNEEMEYER most recent position was as Vice Provost for Research and Graduate Education and Professor of Chemistry at Rutgers University – Newark Campus. She was responsible for the research office, the animal care facility and the graduate school. Dr. Schneemeyer is a distinguished chemist specializing in the design, synthesis and characterization of new materials, specifically in the fields of superconducting, magnetic, electronic, and optical material and devices. In 22 years at Bell Laboratories, she gained experience managing multimillion dollar research collaborations among diverse corporate partners. She subsequently joined the National Science Foundation as program officer, where she was responsible for peer review of proposals and programs supporting multidisciplinary research for the chemical sciences. She has authored more than 260 scientific publications presented more than 85 invited talks and is the holder of 21 issued and pending patents. She is ranked as the 18<sup>th</sup> most cited physicist between 1981 and 1997. Immediately upon completion of her doctorate, Dr Schneemeyer served as a post-doctoral fellow at the Massachusetts Institute of Technology.

**TONI M. SMITH**

Mathematical Sciences Department

B.A.               McDaniel College

M.S.               University of Maryland, Baltimore County

Ph.D.              University of Maryland, College Park

DR. SMITH background is in the teaching and learning of mathematics and statistics. Her research has focused on studying the development on deep, connected understandings of mathematical and statistical concepts both in teachers and students. Her fellowship, through the Mid-Atlantic center for Mathematics Teaching and Learning, provided her the opportunity to become more deeply involved in research projects. Previously, she served for two years, as liaison and program coordinator of a grant funded initiative designed to provide elementary and middle grades teacher with an understanding of mathematics.

**APARNA VARDE**

Computer Science Department

B.E.               University of Bombay

M.S.               Worcester Polytechnic University

Ph.D.              Worcester Polytechnic University

DR. VARDE'S research interests span Data Mining, Artificial Intelligence and Database Management with particular emphasis on multi-disciplinary work. She worked as a Research Assistant in the Materials Science program at WPI. Her doctoral research led to several publications in reputed international journals and conferences in Computer Science and Materials Science, as well as trademarked software tools for the Center for Heat Treating Excellence, an international industry-university consortium. Dr. Varde's professional activities include serving as a Panelist for NSF, Reviewer for journals such as IEEE's TKDE, Co-chair of ACM CIKM's Ph.D. workshop, Chair of the Faculty Screening Committee in Computer Science at VSU and Program Committee Member in international conferences such as Springer's DEXA 2008 and SIAM's SDM 2008.