

**Gregory J. McRae** is the Hoyt C. Hottel Professor of Chemical engineering at the Massachusetts Institute of Technology. He has a Ph.D. in engineering from Caltech and a B.E. in Mechanical engineering from Monash University, Australia. Before joining MIT he held joint appointments in Chemical Engineering and Engineering and Public Policy at Carnegie Mellon University, Pittsburgh. He is a member of the AIChE and ACS. He is the recipient of numerous awards for his research in computational and environmental science, including the Presidential Young Investigator Award, the George Tallman Ladd Research Prize, the Forefronts of Computational Science Award, The National Computer Graphics Prize, and the AAAS Environmental Science Fellowship. He has authored numerous articles on air quality issues, chemical kinetics and process engineering. He is a member of many government, industry and academic advisory boards including National Academy of Sciences and National Research Council Panels, the U.S. Department of Energy Science Advisory Board as well as being on the editorial board of five technical journals. One of his current research interests is the development of process design and operating procedures that can incorporate multiple objectives, including economic considerations, environmental performance, safety, control and product quality. Particular attention is being given to the direct treatment of uncertainties in the solution and optimization algorithms.