Joe Golab is the Molecular Modeling & Simulation Scientist for INEOS Technologies (part of the Ineos Group). Located in Naperville (IL), at the BP Complex, he directs the work efforts of the modeling and simulation technology and performs research projects in catalyst development. As a Senior Research Associate, Joe maintains other interests within the company including High Throughput Experimentation, the Electronic Laboratory, and High Performance Computing. He is an adjunct faculty member in the Department of Biological, Chemical, and Physical Sciences within the Armour College of Engineering and Science at the Illinois Institute of Technology and has served on several US Government technical panels. Joe's interests lie on the technical side specifically in applying and developing accurate, quantitative, computational techniques and methods for problems of industrial interest, especially thermochemistry, kinetics, and catalysis. He is a contributing author on over 50 refereed journal articles, several book chapters, and one book and has spoken on industrial applications of molecular modeling around the world. Before starting at Amoco Chemicals in 1991, Joe was a Research Scientist and Leader of the Computational Chemistry Group at the National Center for Supercomputer Applications located on the campus of the University of Illinois in Urbana. He studied as a postdoctoral associate at Northwestern University and completed his dissertation at Texas A&M University.

Marianthi Ierapetritou is a Professor in the Department of Chemical and Biochemical Engineering at Rutgers University in Piscataway, New Jersey. She obtained her BS from National Technical University in Athens, Greece, her PhD from Imperial College (London, UK) in 1995 and subsequently completed post-doctoral research at Princeton University (Princeton, NJ) before joining Rutgers University in 1998. Among her accomplishments is the Outstanding Faculty Award this year, the Rutgers Board of Trustees Research Fellowship for Scholarly Excellence, and the prestigious NSF CAREER award. Marianthi research focuses on the following areas: 1) Process operations; (2) design and synthesis of flexible manufacturing systems; 3) modeling of reactive flow processes; and 4) metabolic engineering. She has published 117 papers and presented in national and international conferences and a number of universities. She is also a member of AIChE, INFORMS and SIAM and an active participant in the scientific advising committees of ESCAPE 16, 17, 21, PSE 2006, 2009, 2012, FOCAPD 2009, and FOCAPO 2012. In 2008 she was the organizer of the fifth international FOCAPO conference. She is an active educator both in the classroom teaching graduate and undergraduate classes in the Chemical Engineering department and as an advisor currently supervising the Ph.D. of

8 students and 1 postdoctoral fellow. Her research work is supported by federal (NSF, ONR, PRF, EPA, NIH) and industrial support (Pfizer, ExxonMobil, BOC). Marianthi has been active in CAST division of the AIChE as a program director for the last two years and she was recently elected as a second vice chair. In this role she initiated an enhancement of the Student travel award to include the Student presentation award which was implemented last year. She has also been a chair for the area 10A programming in 2006 and is an elected Trustee of CACHE for the last 6 years.

Dr. Michael A. Henson is a Professor of Chemical Engineering at the University of Massachusetts Amherst, where he serves as the Director of the Center for Process Design and Control and Co-director of the Institute for Massachusetts Biofuels Research. His research is focused on system-scale dynamic modeling with applications to biological and complex fluid problems, with current activities concentrated in the domains of microbial routes to biofuels, microstructured chemical products, and biological timekeeping. His teaching interests include mathematical modeling, process control, and systems biology. He has been a CACHE Trustee since 2005, having served as the Chair of the Biosystems Task Force. He has been heavily involved in CACHE conferences, including serving as the Chair of Chemical Process Control 7 (2006) and the Chair of the Third International Conference on Foundations of Systems Biology in Engineering (2009).

Thomas F. Edgar is Abell Chair of Chemical Engineering at the University of Texas at Austin. Dr. Edgar received his B.S. degree in chemical engineering from the University of Kansas and a Ph.D. from Princeton University. For the past 40 years, he has concentrated his academic work in process modeling, control, and optimization, with over 200 articles and book chapters. Edgar has co-authored two leading textbooks: Optimization of Chemical Processes (McGraw-Hill, 2001) and Process Dynamics and Control (Wiley, 2010) and has received major awards from AIChE and ASEE. Recently he has carried out modeling and control research projects jointly with seven companies and is the director of the Texas Wisconsin California Control Consortium (TWCCC). He is also the co-founder of the Smart Manufacturing Leadership Coalition (SMLC). Dr. Edgar was the 1997 President of AIChE and he has served as Executive Director of CACHE since 2001.