ANNOUNCEMENTS

NEW CACHE TRUSTEES

Phillip Westmoreland

University of Massachusetts

Phillip R. Westmoreland is an Associate Professor of Chemical Engineering at the University of Massachusetts Amherst. He received a B.S.Ch.E. from North Carolina State University (1973), a M.S.Ch.E. from Louisiana State University (1974), and a Ph.D. from MIT (1986). From 1974-1979, he was a research engineer at Oak Ridge National Laboratory, conducting coal conversion research. His research focuses on engineering kinetics of gas-phase combustion, polymer flammability, plasma-enhanced chemical vapor deposition, and homogeneous catalysis, obtained both from experiments and from computational chemistry. He is the author of forty-six publications, 114 presented papers and posters, and an edited book ("Gas-Phase and Surface Chemistry in Electronic Materials Processing," MRS 1994).

Professor Westmoreland has been active in the American Chemical Society, the American Institute of Chemical Engineers, and the Combustion Institute. In 1991, he organized an ACS Fuel Chemistry symposium on "Combustion Chemistry." He organized AIChE Symposia on "Computational Chemistry and Its Industrial Applications" in 1994 and 1996, he was an organizer of AIChE's discussion forum on this area, and he was co-chair of a 1998 AIChE Topical Conference on "Applying Molecular Modeling and Simulation." He is papers chair for the Eastern States Section of the Combustion Institute and serves on the editorial advisory board of I&EC Research. For 2000, he is co-chair of a CACHE-sponsored first conference on "Foundations of Molecular Modeling and Simulation."

He was selected as an NSF Presidential Young Investigator for 1990-95. He has won the Public Relations Award (AIChE, 1977), the BCR / R. A. Glenn Award for Best Paper (A.C.S. Fuel Chemistry Division, 1992), the General Electric Outstanding Teaching Award (University of Massachusetts, 1990), and the Outstanding Junior Faculty Award (University of Massachusetts, College of Engineering, 1990).

[For more information, see http://www.ecs.umass.edu/che/westmoreland.html.]

Francis Doyle

University of Delaware

Francis J. Doyle III is an associate professor in the Department of Chemical Engineering at the University of Delaware. He received his B.S.E. from Princeton (1985), C.P.G.S. from Cambridge (1986), and Ph.D. from Caltech (1991), all in Chemical Engineering. After graduate school, he worked at DuPont as a Visiting Scientist in the Strategic Process Technology Group (1991-1992), then started as an Assistant Professor at Purdue University in 1992. He was promoted to Associate Professor in 1997, and moved to the University of Delaware as an Associate Professor in the Fall of 1997.

His research interests are in process modeling, identification and control with applications to polymerization systems, pulp and paper processes, and biosystems. He is the recipient of several research awards (NSF NYI (1992), ONR Young Investigator (1996)) as well as teching awards (Purdue Potter Award - Engineering Teaching Award (1995), ASEE Section Outstanding Teacher Award (1996), Tau Beta Pi Teaching Award (1996)). In 1998, he was elected as a Fellow of the Institute of Transforming Undergraduate Education (ITUE) at the University of Delaware.

His recreational activities are sailing, windsurfing, and spending time with his wife and two daughters.

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Jennifer Sinclair
Purdue University

Jennifer Sinclair is an associate professor in the School of Chemical Engineering at Purdue University. She received her bachelors degree in chemical engineering from Purdue and her doctorate degree in chemical engineering from Princeton University. Professor Sinclair is a NSF Presidential Young Investigator, is a recipient of the Ladd research award from Carnegie Mellon University, where she previously served on the faculty, and has won several teaching awards. She is on the editorial advisory board of the journal of Powder Technology and has served on the Executive Committee of the Particle Technology Forum.

Her research is in the area of gas-solid flows and fluidization and involves model development and experimentation using laser Doppler velocimetry. She focuses on investigation of phenomena such as particle/turbulence interaction, solid-phase turbulence, particle-particle and particle-wall interactions, and effect of particle size distribution. She collaborates with Fluent, Inc. and AEA Technology; the physics of her models are incorporated into the commercial multiphase CFD codes CFX and Fluent. On the educational front, she has initiated a course in Particle Technology at Purdue. She would like to work with CACHE to develop CFD case studies to enhance undergraduate and graduate education in transport phenomena.

David Kofke
Carnegie-Mellon University

David Kofke obtained his B.S. in Chemical Engineering from Carnegie-Mellon University in 1983. He then went on to graduate studies at the University of Pennsylvania, where he worked studying polydisperse mixtures in the group of Eduardo Glandt. This was followed by a postdoctoral year performing protein modeling at Rutgers University with Martin Yarmush. He began his academic career at SUNY Buffalo in 1989 and, except for a sabbatical year with Peter Cummings at Tennessee/Knoxville, he has been there since. His research has addressed the development and application of molecular simulation methods. His current research is split between modeling of solid phases, modeling of hydrogen fluoride, and modeling of molecular simulation itself, with the aim of understanding and improving its application. He is a member of CACHE's Molecular Modeling Task Force, where he is involved in two initiatives, one to develop a web-based textbook on molecular simulation, and the second to produce molecular simulation modules for undergraduate instruction.