



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

2005 PMSE Fellow Ceremony

Two new PMSE Fellows were inducted during the PMSE Awards Lunch at the San Diego ACS Meeting on Monday, March 14th, 2005.

- Eric Amis
- David Lohse

PMSE is pleased to welcome this distinguished group of polymer scientists and engineers to the ranks of fellows. A short description of their work up to the point of the induction as a PMSE Fellow is on the following pages.



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

2005 PMSE Fellow Induction Biographies

2005 PMSE Fellow

Eric J. Amis

National Institute of Standard and Technology

Dr. Eric J. Amis has been Chief of the Polymers Division of the National Institute of Standards and Technology since May 1999. Before joining NIST in 1995 to lead the Polymer Blends and Processing Program, Amis spent 11 years on the faculty in physical chemistry at the University of Southern California. Prior to that he completed postdoctoral training at the University of Wisconsin and as a National Research Council Associate at NIST's predecessor, the National Bureau of Standards. He received his Ph.D. in Chemistry from University of Wisconsin-Madison and B.S. in Chemistry, from Willamette University, Salem, Oregon. From 1992 to 2002 he was the Editor of the *Journal of Polymer Science: Polymer Physics*. He is a Fellow of the American Physical Society (1992) and a past Chair of the APS Division of Polymer Physics (1998). In 2002 he was awarded the Silver Medal from the US Department of Commerce for Leadership in advancing new technical programs in the Polymers Division at NIST.

Amis has chaired three Gordon Research Conferences: Macromolecular Dynamics, Polymer West, and Combinatorial and High-Throughput Materials Science (as co-founder). His research is primarily in the areas of solution rheology combined with light, neutron and X-ray scattering methods to investigate the physics of complex systems such as biomembranes, polyelectrolytes, associating polymers, gels, polymer crystallization, and dendritic polymers. More recently, he has initiated a program to apply combinatorial and high throughput methods to materials physics and biomaterials, which led to the establishment of both the NIST Combinatorial Methods Center and a major NIST initiative in metrology for tissue engineering.



DIVISION OF POLYMERIC MATERIALS: SCIENCE & ENGINEERING

2005 PMSE Fellow

David J. Lohse

ExxonMobil Research and Engineering Company

Dr. David J. Lohse received B.S. degrees in both Physics and Computer Science from Michigan State University in 1974, and a Ph. D. in Materials Science from the University of Illinois in 1978. He then spent two years at the National Bureau of Standards in Gaithersburg, MD under an NSF-NRC Fellowship, working on the theory of polymer solutions with Isaac Sanchez. Since then he has worked for Exxon Mobil Corporation, first in the Long Range Polymer Research Group of Exxon Chemical Co., and since 1987 in what are now the Corporate Strategic Research Labs of ExxonMobil Research & Engineering Co. in Annandale, NJ.

His current research focuses on the thermodynamics of mixing polymer blends, neutron scattering from polymers, the use of block and graft copolymers to enhance blend compatibility, the control of rheology by molecular architecture, nanocomposites, and the application of such knowledge to develop improved polymer products. His research has resulted in over 80 publications (including a book on "Polymeric Compatibilizers" written in 1996 with Sudhin Datta of ExxonMobil Chemical Co.) and more than fifteen patents. He has also served the PMSE division of the American Chemical Society in several capacities. Among these are Program Chair from 1991-94, Secretary in 1995, Chair in 1998, and chair of the new Fellows Committee from 1999-2003. In 2003 he began a term as Councilor for PMSE. He was elected a Fellow of the American Physical Society in 2000.