



Jonathan is a Research Scientist in the Core R&D Materials Science organization of The Dow Chemical Company. He has a Ph.D. in chemical engineering from the University of Tennessee – Knoxville (1999) where his research focused on molecular modeling and its application to the rheology of polymers and lubricants (funded in part by a National Science Foundation graduate fellowship). His current research interests include materials and polymer science, methods for modeling and simulation at the atomistic, meso-, and continuum scales, and data mining. At Dow (Midland, MI) he has used both modeling and experiment to accelerate new product development in a variety of application areas including cellulose ethers in food, pharma, personal care, and construction applications, metal coatings for food and beverage packaging, polymeric nanofoams, automotive glass bonding and seating, polymer composites, roofing materials, housewrap, polymer blend compatibilization, adhesives, and architectural coatings. In recent years, one of his primary areas of emphasis has been data-driven modeling (data mining) as applied to applications such as coatings and adhesives. Jonathan is a founding member of the Industrial Fluid Properties Simulation Collective, a member of the editorial board of *Fluid Phase Equilibria*, and Vice Chair for Communications of the Computational Molecular Science and Engineering Forum of the AIChE (CoMSEF).