

Short Bio of Dion Vlachos

Dion Vlachos is a Professor at the Department of Chemical Engineering at the University of Delaware since 2003. He obtained his Ph.D. from the University of Minnesota in 1992 and spent a postdoctoral year at the Army High Performance Computing Research Center, MN, after which he joined the Chemical Engineering Department of UMass as an Assistant Professor. He has been with the faculty of Delaware since 2000. He is the recipient of an ONR Young Investigator Award, a NSF Career Award, a Junior Faculty Award, and the Best Advisor Award (twice). He has co-authored more than 130 refereed publications and has given more than eighty invited, plenary, or keynote talks. He has organized the Topical Conference on Multiscale Modeling as part of the AIChE meeting in 2005, over ten sessions and minisymposia in AIChE and SIAM on multiscale theory and simulation and microreactors since 1998 that have recently expanded from the Catalysis & Reaction Engineering (CRE) division of AIChE into the Materials and Cast Divisions of AIChE. He is currently a director of CRE, serves on the International Advisory Committee of the International Conference on “Computational Modeling and Simulation of Materials” and on the Board of Directors of the Center for Catalytic Science and Technology (CCST). He has been graduate program coordinator for a total of six years at two institutions. His research and teaching interests entail nucleation and growth of zeolite nanoparticles and thin films, separations and reactions in zeolitic films, catalytic reaction mechanism development, portable microchemical devices, energy engineering, multiscale modeling, optimization, and bifurcation theory.