



Dr. James C. Hill University Professor and Professor of Chemical & Biological Engineering Iowa State University

Professor Hill is also member of the Computational Fluid Dynamics Center. With BS ChE (honors) from Stanford, PhD ChE from University of Washington, he was a NRC/NAS post-doc in theoretical physics at Goddard Space Flight Center and worked as a research engineer at Shell Development before joining Iowa State. Since then he has served as CBE department chair, had visiting appointments and professorships at the National Center for Atmospheric Research, JSPS Fellow at Nagoya University (and subsequent collaborations), CNRS Rouen (Assoc. Dir.), the Isaac Newton Institute (Cambridge), the Stanford-NA SA Center for Turbulence Research, and has served as regional editor of Fluid Dynamics Research (Elsevier). His primary research area is fluid mechanics; he was among the first to use direct numerical simulation of turbulent flows to determine the course of a chemical reaction influenced by turbulent transport and mixing; he is currently involved with experiments using PIV/PLIF, large eddy simulation, and stochastic models for studies of model chemical reactors. He has served as vice chair of the US National Committee on Theoretical & Applied Mechanics, is a district director (upper mid-west) for Tau Beta Pi (national engineering honor society), and has been involved with many activities of AIChE including chair of the national program committee, membership on the AIChE board of directors (2001-2003), meeting program chair or co-chair (Miami Beach 1992 and Minneapolis 2011), and member of the Fellows Council. In 2008 he

won the Van Antwerpen award for service to the Institute. He has participated in the CCR-GEN since 2006, served on the CCR annual meeting committee 2006-2007, helped arrange the CCR-sponsored plenary session at the Minneapolis AIChE annual meeting in 2011 as AIChE meeting program co-chair, and helped arrange the CCR co-sponsored plenary session at the 2013 San Francisco AIChE annual meeting through the AIChE Fellows Council. He has authored or co-authored more than 90 publications and presented for than 50 invited lectures. He has been recognized with awards that include the NIST Bronze and Silver Medals, the NIST Slichter Award, the Presidential Early Career Award for Science Kavli Frontiers of Science program, and the NAE Frontiers of Engineering program. He was elected a Fellow of the American Physical Society in 2010. He is active in professional organizations including the American Institute of Chemical Engineers where he served as a Counselor in the Materials Division, the American Physical Society as a symposium organizer.