

Suresh Bhatia

Suresh. Bhatia is Professor, and Head of the Division of Chemical Engineering, at the University of Queensland. His main research interests are in adsorption and transport in nanoporous materials, with an emphasis on molecular modeling for characterization and transport property prediction, and in heterogeneous reaction engineering. Among the recent developments from his group is a novel density functional theory approach that characterizes carbons in terms of a combination of pore wall thickness and pore size distributions, thereby overcoming key weaknesses of the existing method. In addition, they have developed powerful new techniques for characterizing microstructural accessibility of carbons based on molecular models of the structure. Most recently, they have proposed new theories for prediction of transport properties of simple gases in nanopores.

Suresh is a Fellow of the Indian Academy of Sciences, and recipient of the Herdillia Award for Excellence in Basic Research in Chemical Engineering from the Indian Institute of Chemical Engineers. In 1993 he was awarded the Shanti Swarup Bhatnagar Prize for Engineering Sciences by the Government of India. More recently, in 2007 he received the third Micromeritics Instrument Grant Award. He has been a Danish Research Council sponsored Visiting Professor at the Technical University of Denmark, besides holding visiting positions at the University of Florida, at the University of Karlsruhe, and at the National University of Singapore.