

Professor Bakhtier Farouk

Biographical information

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Professor Bakhtier (Baki) Farouk received his BS degree in Mechanical Engineering from the Bangladesh University of Engineering and Technology, his MS and Ph.D. degrees from the University of Delaware in 1975, 1978 and 1981 respectively. He joined the Mechanical Engineering and Mechanics department in Drexel University, Philadelphia, PA in September 1981 and is now serving there as the Billings Professor. His research and teaching interests include thermoacoustics, convective and radiative heat transfer, cryogenic refrigeration, plasma processing, combustion and fires, transport processes in materials processing, multi-phase flows, microfluidics, and computational fluid dynamics. Various federal agencies and numerous companies have sponsored Professor Farouk's research over the past thirty-five years. He has supervised the research of twenty-seven Ph. D. students to completion. Professor Farouk and his students have coauthored more than one hundred and fifty papers in refereed journals. He serves as a consultant for various industries and federal agencies. He was awarded the SAE Ralph Teetor Educational Award in 1986 and the American Society of Metals Henry Marion Howe Medal in 1989. He served as a Summer Faculty Research Associate at the Naval Research Laboratory in Washington, D. C. in 1988 and 1997. He served as a Guest Researcher at Princeton University and Air Products and Chemicals Inc. in 1991-92 and the National Institute of Standards and Technology, Gaithersburg, MD in 1999-2000 - on sabbatical leaves from Drexel University. He was awarded the Presidential Citation for outstanding achievement by the University of Delaware in 1999. The AIAA Philadelphia Section awarded him the Ira Cohen Fluid Dynamics Award in 2008. He is a registered Professional Engineer in Pennsylvania and is an ASME Life Fellow, an AIAA Associate Fellow and an APS Senior Member. He also serves as an ABET ME Program Evaluator (PEV). He recently served (AY 2015-16) as a Guest Researcher at the Impact Physics Branch at the Army Research Laboratory, Aberdeen Proving Ground, MD on a sabbatical leave from Drexel University. Professor Farouk served as a Research Fellow at the Federal Aviation Agency (FAA), Atlantic City, NJ in the 2021 summer.