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I am a Professor in the Department of Mechanical and Aerospace Engineering. I have published more than 400 journal papers, 3 books, 10 book chapters, and more than 80 conference papers. I served for two terms as Associate Editor of the ASME Journal of Heat Transfer. I am also an affiliate faculty member of the UNC/NCSU Biomedical Engineering Department, Fellow of American Society of Mechanical Engineering, an Associate Editor of the Journal of Porous Media, and a winner of a prestigious Humboldt Research Award. In 2014, I was elected as a Member of the Scientific Council of the International Center of Heat and Mass Transfer (ICHMT).

I have been at NCSU for more than 20 years. I taught various undergraduate and graduate courses in thermodynamics, fluid mechanics, and heat transfer. My scholarly work has been in general thermofluids area, including transport in porous media, transport in living tissues, bioheat transport, bioconvective sedimentation, Newtonian and non-Newtonian flows, flows in microgravity, and turbulence. I attracted funding from many national and international agencies, including DARPA, NSF, NASA, EPA, NATO, USDA, DTRA, NTC, and Eastman Chemical.

Over the years at NCSU I have served on numerous ASME and departmental committees, and currently serve on the departmental graduate committee and ASME Heat Transfer Division K-8 Theory & Fundamental Research and ASME Fluids Engineering Division Multiphase Flow Committees. I organized sessions at multiple ASME conferences.