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Prof. Tse received his B.S.E. in Engineering Physics from Princeton University in 1991, and his M.S. and Ph.D. in Mechanical Engineering from the University of California at Berkeley in 1994 and 1996, respectively. He was on the Research Staff at Princeton University from 1997 to 2000, and has been at Rutgers since 2001. He is presently an Associate Professor and the Outreach Director in the Department of Mechanical and Aerospace Engineering.

Prof. Tse's research focus is in the thermal sciences, involving applications in nanomaterials synthesis, plasma processes, CVD, and advanced laser-based diagnostics. His research methodologies encompass experimentation, computational simulation of complex flows and chemistry, and mathematical analysis. He has designed experiments and diagnostics that have flown on the Space Shuttle or are being planned for the International Space Station. While at U.C. Berkeley, he was supported by a NASA Graduate Student Research Fellowship. He received the 1998 AIAA Best Paper Award in Microgravity Science and Space Processing, and the 2001 AIAA Best Paper Award in Propulsion and Combustion. He is a member of the American Institute of Aeronautics and Astronautics, the American Society of Mechanical Engineers, and the Combustion Institute. He serves on the AIAA Microgravity and Space Processes Technical Committee (as Chair) and on the ASME Board of Government Relations. At Rutgers, he is an associated faculty of the Institute for Advanced Materials, Devices, and Nanotechnology and of the Nanomaterials Science and Engineering curriculum.