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Professor David Y. H. Pui is a Distinguished University Professor and LM Fingerson/TSI Inc. Chair in Mechanical Engineering at the University of Minnesota. He is a Member of the U.S. National Academy of Engineering (NAE) and Director of the world-renowned Particle Technology Laboratory at the University of Minnesota. He is also the Director of the Center for Filtration Research (CFR) with 19 leading international filtration companies as members. He has a broad range of research experience in aerosol and nanoparticle science and filtration technology and has over 260 journal papers and 26 patents. He has developed several widely used commercial aerosol instruments. Dr. Pui has received many awards, including the Max Planck Research Award (1993), the Humboldt Research Award for Senior U.S. Scientists (2000), the Fuchs Memorial Award (2010) -- the highest disciplinary award conferred jointly by the American, German and Japanese Aerosol Associations, and the Einstein Professorship Award (2013) by the Chinese Academy of Sciences (CAS).