

The 19th U.S.–Korea Forum on Nanotechnology



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Professor Jhon is a Professor Emeritus of Chemical Engineering and a member of the Data Storage Systems Center (DSSC) and the Institute for Complex Engineered Systems (ICES) at Carnegie Mellon University in Pittsburgh, PA. Professor Jhon received his B.S. in Physics from Seoul National University, Korea, and his Ph.D. in Physics from the University of Chicago. He has served as visiting professor in several institutions, including the U.S. Department of Energy (National Energy Technology Laboratory and Sandia National Laboratories); the Department of Chemical Engineering, University of California, Berkeley; IBM Almaden Research Center, San Jose; and the Naval Research Laboratory, Washington, D.C. He served as a consultant to the United Nations Industrial Development Organization, and also served as a Corporate Science and Technology Advisor for Mitsubishi Chemical Corporation (Japan) for several years. He served as the President & CEO of Doosan DND Co., Ltd (Korea) and also served as a World Class University Professor at Sungkyunkwan University in Korea and as a Distinguished Advisor for Exa Corporation.

Professor Jhon is internationally known for his work in the fields of information storage systems, computational science, nanotechnology, engineering policy, semiconductors, graphene, organic light-emitting devices (OLED), and chemical mechanical polishing (CMP). He is a Fellow of the Korean Academy of Science and Technology. He served as an advisory committee member for a Korean national program for Tera-level nanodevices and is serving as the chair of the advisory board and a lead organizer for the U.S.-Korea Nanotechnology Forums (<https://www.cmu.edu/nanotechnology-forum/>). He has contributed publications in the areas of information storage systems, nanotechnology, computational methods (lattice-Boltzmann method, finite-element method, smoothed particle hydrodynamics, atomistic, Monte Carlo, molecular dynamics & multiscale simulation, and parallel computing), fuel cell, equilibrium and non-equilibrium statistical mechanics, nucleation, fluid and solid mechanics, interfacial dynamics, polymer engineering, rheology, multiphase flow, tribology, chemical kinetics, and OLED & CMP equipment. He is also dedicated to the educational process, as is evident from his numerous teaching awards and his role as an ABET evaluator (Akron, Worcester Polytechnic Institute, Rochester, Tufts, Stanford, Connecticut, Tennessee Tech, Stevens Institute of Technology, Maryland, and Florida), and was the Carnegie Institute of Technology Faculty Chair & Undergraduate Chair in his department. Currently, he is completing an undergraduate textbook entitled Principles of Fluid Mechanics, part of which is published on the Carnegie Mellon website. He has won a number of teaching and research recognition awards, including the Ladd, Teare, Ryan, Dowd, and Li Awards.