

Speaker Profile



Dr. Subhash C. Singhal

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Dr. Singhal received his B.S. in Physics, Chemistry, and Mathematics from Agra University; B.E. in Metallurgy from Indian Institute of Science; Ph.D. in Materials Science & Engineering from the University of Pennsylvania; and an M.B.A. from the University of Pittsburgh. Dr. Singhal joined PNNL in April 2000 after having worked at Siemens Power Generation (formerly Westinghouse Electric Corporation) for over 29 years. At PNNL, Dr. Singhal provides senior technical, managerial, and commercialization leadership to the Laboratory's extensive fuel cell and clean energy programs. At Siemens/Westinghouse, he conducted/managed major research and development, programs on advanced materials for various energy conversion systems. During 1984-2000, he was manager of Fuel Cell Technology there, responsible for the development of high temperature solid oxide fuel cells (SOFCs) for stationary power generation. In this role, he led an internationally recognized group in SOFC technology and brought this technology from a few-watt cells to fully-integrated 200 kW size power systems. He has authored over 85 scientific publications, edited 14 books, received 13 patents, and given almost 300 presentations worldwide.

Dr. Singhal is also an Adjunct Professor in the Department of Materials Science & Engineering at the University of Utah and a Visiting Professor at the China University of Mining and Technology-Beijing. He serves on the Advisory Boards of the Department of Materials Science & Engineering at the University of Florida, Florida Institute for Sustainable Energy, Division of Materials Science & Engineering at Boston University, and the Center on Nanostructuring for Efficient Energy Conversion at Stanford University. He is a member of the U.S. National Academy of Engineering and the Washington State Academy of Sciences; a Fellow of American Ceramic Society, The Electrochemical Society, ASM International, and the American Association for the Advancement of Science; and a senior member of the Mineral, Metals & Materials Society (TMS). He served on the Electrochemical Society's Board of Directors during 1992-94, received its Outstanding Achievement Award in High Temperature Materials in 1994, and continues as the Chairman of its International Symposium on Solid Oxide Fuel Cells. He served as President of the International Society for Solid State Ionics during 2003-2005. He has received the American Ceramic Society's Edward Orton Jr. Memorial Award; Invited Professorship Award from the Japan Ministry of Science, Education and Culture; Christian Friedrich Schoenbein Gold Medal from the European Fuel Cell Forum; Fuel Cell Seminar Award for outstanding leadership and innovation in the promotion and advancement of fuel cell technology; and the prestigious Grove Medal for sustained advances in fuel cell technology. He serves on the Editorial Boards of the Journal of Power Sources and the Journal of Nano Energy and Power research, and is an Associate Editor of ASME's Journal of Fuel Cell Science and Technology. He also serves on many national and international review and advisory panels.

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