

Bharat Bhushan

Ohio Eminent Scholar and The Howard D. Winbigler Professor | College of Engineering at The Ohio State University

Columbus, OH, US

Dr. Bhushan works in biomimetic interface science, surface engineering, nanotribology and materials research

Biography

Dr. Bharat Bhushan is an Ohio Eminent Scholar and The Howard D. Winbigler Professor in the College of Engineering, and the Director of the Nanoprobe Laboratory for Bio- & Nanotechnology and Biomimetics (NLB2) and affiliated faculty in John Glenn College of Public Affairs at the Ohio State University, Columbus, Ohio. In 2013-14, he served as an ASME/AAAS Science & Technology Policy Fellow, House Committee on Science, Space & Technology, United States Congress, Washington, DC. He holds two M.S., a Ph.D. in mechanical engineering/mechanics, an MBA and two honorary and two semi-honorary doctorates. His research interests include fundamental studies with a focus on scanning probe techniques in the interdisciplinary areas of bio/nanotribology, bio/nanomechanics and bio/nanomaterials characterization and applications to bio/nanotechnology, and biomimetics. He has authored 8 scientific books, 90+ handbook chapters, 800+ scientific papers (One of Google Scholar's 1612 Highly Cited Researchers.) He has also edited 50+ books and holds more than 25 U.S. and foreign patents. He is co-editor of Springer NanoScience and Technology Series and Microsystem Technologies, and member of editorial board of PNAS. He has organized various international conferences and workshops. He is the recipient of numerous prestigious awards and international fellowships including the Alexander von Humboldt Research Prize for Senior Scientists, Max Planck Foundation Research Award for Outstanding Foreign Scientists, Fulbright Senior Scholar Award, Life Achievement Tribology Award, and Institution of Chemical Engineers (UK) Global Award. His research was listed as the top ten science stories of 2015. He is a member of various professional societies, including the International Academy of Engineering (Russia). He has previously worked for various research labs including IBM Almaden Research Center, San Jose, CA. He has held visiting professorship at University of California at Berkeley, University of Cambridge, UK, Technical University Vienna, Austria, University of Paris, Orsay, ETH Zurich, EPFL Lausanne, Univ. of Southampton, UK, Univ. of Kragujevac, Serbia, Tsinghua Univ., China, Harbin Inst., China, and KFUPM, Saudi Arabia.

Industry Expertise

Education/Learning

Areas of Expertise

Mechanical Engineering, Aerospace Engineering, Biomimetics, Biomimetic Materials, Nanotechnology, Biomechanics

Affiliations

The New York Academy of Sciences, American Society of Mechanical Engineers, The Institute of Electrical and Electronics Engineers

Education

Rensselaer Polytechnic Institute
M.B.A. Management

University of Colorado at Boulder
Ph.D. Mechanical Engineering

Massachusetts Institute of Technology
B.S. Mechanical Engineering

Accomplishments

BITS Distinguished Alumni Award
Birla Institute of Technology and Science 2015

International Award for Outstanding Contribution to Tribology and/or its Related Sciences
Society for Tribologists and Lubrication Engineers 2014

Lumley Interdisciplinary Research Award
College of Engineering, Ohio State University 2012

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