

WILLIAM P. KING

College of Engineering Bliss Professor
Department of Mechanical Science and Engineering;
Department of Materials Science and Engineering
Department of Electrical and Computer Engineering
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MAIN RESEARCH ACTIVITIES

Heat Transfer, Thermal Processing, Thermal Engineering, Thermal Design, Heat Exchangers, Heat Sinks, Thermal Management
Polymers, Nano-Composites, Nanotubes, Nanoparticles, Graphene, Ferroelectrics
Microtechnology, Nanotechnology, Manufacturing, Micro-Manufacturing, Nano-Manufacturing
Thermometry, Energy Conversion, Pyroelectricity, Thermoelectricity, Electro-Calorics
Hydrophobicity, Oleophobicity, Friction, Wear, Boiling, Condensation
Mechanical Properties, Micro-Mechanics, Nano-Mechanics, Scanning Probe Microscopy, Atomic Force Microscopy (AFM)
Microelectromechanical Systems, Nanoelectromechanical Systems
Author of > 130 Journal Articles

MAIN CONSULTING ACTIVITIES

Thermal Energy Transport, Energy Harvesting
MEMS, NEMS, Microtechnology, Nanotechnology, Micro-manufacturing, Nano-manufacturing, Sensors
Design, Testing, and Evaluation of Thermal, Mechanical, and Electro-Mechanical Systems
Technology Due Diligence, Technology Entrepreneurship
Technology Business Development, Patents, Licensing
Intellectual Property, Expert Witness, Litigation, Expert Report

EDUCATION

PhD, Mechanical Engineering, Stanford University, 2002
Program for Leadership Development, Harvard Business School, 2012

PROFESSIONAL EXPERIENCE

College of Engineering Bliss Professor, Department of Mechanical Science and Engineering, UIUC, 2010-date
Chief Technology Officer, Hoowaki LLC, 2008-date www.hoowaki.com
DARPA's Defense Sciences Research Council, 2007-date
Chair, Scientific Advisory Board, IP2Biz LLC, 2007-date
Associate Professor, Department of Mechanical Science and Engineering, UIUC, 2006-2010
Scientific Advisory Board Member 2005-present, Anasys Instruments, Inc. www.anasysinstruments.com
Assistant Professor, Georgia Institute of Technology, 2002-2006
Post Doctoral Research Fellow, Stanford University, 2002
Scientific Advisory Board Member 2001-present, University Technology Ventures
Member, Board of Advisors 2000-present, Essential Research, Inc.
Research Staff Member, IBM Zurich Research Laboratory, 1999-2001

AWARDS AND HONORS

Fellow, American Society of Mechanical Engineers, 2011.
Society of Manufacturing Engineers, "Innovations that will Change Manufacturing," 2011
Best Paper Award, IEEE Sensors Conference, 2010.
Willett Faculty Scholar, College of Engineering, UIUC, 2010-2011
Naval Research Laboratory Edison Award for Innovation, 2010
ASME Bergles-Roshenow Young Investigator Award in Heat Transfer, 2009
Xerox Award, College of Engineering, UIUC, 2009
R&D 100 Award – "VESTA"- one of the 100 most technologically significant innovations, 2008
Fellow, Defense Sciences Research Council, 2007-2009
Micro/Nano 25 Award - "Nano Thermal Analysis"- one of the 25 most significant micro/nano technology innovations, 2007
R&D 100 Award – "Nano Thermal Analysis"- one of the 100 most technologically significant innovations, 2007
Office of Naval Research Young Investigator Award, 2007-2010
TR35 – Technology Review's list of the most innovative people under the age of 35, 2006
Invited Participant, 2006 US-Japan Young Researcher's Exchange Program for Nanotechnology and Nanomanufacturing, 2006
Society of Manufacturing Engineers International Outstanding Young Manufacturing Engineer Award, 2006
Kritzer Faculty Scholar, Department of Mechanical Science and Engineering, UIUC, 2006-2010
Presidential Early Career Award for Scientists and Engineers, PECASE, 2005-2010
Department of Energy Defense Program Early Career Award for Scientists and Engineers, 2005-2010
Georgia Institute of Technology Class of 1969 Teaching Fellow, 2005-2006
Invited Participant, National Academy of Sciences Keck Futures Conference on Nanobiotechnology, 2004
Member, American Physical Society, 2003-Present
National Science Foundation CAREER Award, 2003-2008
IBM Graduate Research Fellow, 2000-2002

Member, ASME, 1993-Present; Member, IEEE, 1996-Present