

WILLIAM F. POLIK

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Education

Ph.D., Physical Chemistry, University of California at Berkeley, 1988
B.A., Valedictorian, Chemistry and Mathematics, Dartmouth College, 1982

Experience

Associate Dean of Research and Scholarship, Hope College, 2016-pres
Edward and Elizabeth Hofma Professor of Chemistry, Hope College, 2001-pres
Chemistry Department Chair, Hope College, 2012-2015
Professor, Hope College, 2000-2001
Associate Professor, Hope College, 1994-2000
Assistant Professor, Hope College, 1988-1994
Visiting Academic, University of Queensland, 2008-2009
Fellow, San Diego Supercomputer Center, 2001-2002
Visiting Scientist, Massachusetts Institute of Technology, 1994-1995
Founding Partner, DiscusWare, LLC, 1999-2009; WebMO LLC, 2000-pres
Consultant, Coherent Lasers, 1986-1988; Laser Photonics, 1991-1993; Systems
Integration, 1992-1994
Graduate Student Instructor, University of California, Berkeley, 1982-1985
Research Associate, Institut für makromolekulare Chemie, Universität Freiburg, 1981
Teaching Assistant, Dartmouth College, 1979-1982

Honors and Awards

Schaap Research Fellow, Hope College, 2013
Academic Computing and Technology Award for Innovation, Hope College, 2013
American Chemical Society Fellow, 2010
James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry, 2009
American Association for the Advancement of Science Fellow, 2006
Camille and Henry Dreyfus Foundation Fellow, 2004
Excellence in Undergraduate Research, Indiana University, 2003
Sigma Xi Award for Scientific Outreach, Hope College, 1999
Provost's Award for Teaching Excellence, Hope College, 1998
Presidential Young Investigator Award, National Science Foundation, 1991
Chevron Chemistry Fellowship, U.C. Berkeley, 1986-1987
Bruce H. Mahan Memorial Teaching Award, U.C. Berkeley, 1983
Pre-Doctoral Graduate Fellowship, National Science Foundation, 1982-1985
Sigma Xi Scientific Research Society Prize, Dartmouth College, 1982
Elden Bennett Hartshorn Medal for Chemistry, Dartmouth College, 1982
Haseltine Chemistry-Physics Prize, Dartmouth College, 1982

Mina H. Warren Scholarship Prize, Dartmouth College, 1982
Francis L. Town Scientific Prize for Chemistry, Dartmouth College, 1980
Phi Beta Kappa Prize, Dartmouth College, 1980
Leon Burr Richardson Chemistry Prize, Dartmouth College, 1979

Service and Committees

Administrative Affairs Board, Hope College, Member, 2016-pres
Council on Undergraduate Research, Chemistry Division Councilor, Diversity and Inclusion Taskforce Member, 2013-pres
Academic Affairs Board, Hope College, Member, 2011-13; Chair 2013-14
Department Coordinator, Summer Research, 2003-2005; Teaching Assignments, 2005-2007; Curriculum Revision, 2009-2012
Committee for Professional Training, American Chemical Society, Member, 2000-2004; Vice-Chair, 2005; Chair, 2006-2008; Consultant, 2009-2010
Division of Physical Chemistry Executive Committee, American Chemical Society, 2006-2008
Beckman Scholar Executive Committee, Beckman Foundation, 2000-2002; Chair 2002-2003
Physical Chemistry Committee, ACS DivCHED Examinations Institute, 1996-2001
External Reviewer: Wheaton College, Franklin & Marshall College, Hampden-Sydney College, Lewis and Clark College, US Naval Academy, Colby College

Professional and Honorary Societies

Council for Undergraduate Research, 1988
American Chemical Society, 1985
American Physical Society, 1984
Phi Beta Kappa, 1980
American Association for the Advancement of Science, 1979

Publications, Grants, Seminars, and Workshops

70 Publications (23 with 31 undergraduate co-authors), 1983-2016
48 Grants and Awards for \$2,450,000, 1988-2016
106 Invited Seminars, 1988-2016
45 Symposia and Workshops organized, 2001-2016

Research Students and Post-Docs

74 Undergraduate Research Students
2 Post-Doctoral Scholars

Research and Professional Interests

Highly excited molecular states, molecular potential energy surfaces, gas phase chemical reaction theories, energy flow and transfer, chaotic systems, high-resolution laser spectroscopy, molecular beams, high-accuracy quantum chemistry, numerical algorithms, WWW software for education, curriculum revision and education reform, faculty development, academic leadership