

## WILLIAM F. POLIK

Department of Chemistry  
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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