

## Michael A. Everest

Department of Chemistry  
Westmont College  
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### TEACHING EXPERIENCE

- Professor** Westmont College, Santa Barbara, CA, Fall 2011–present  
Department Chair Fall 2014–present  
Courses taught: Physical Chemistry, Physical Chemistry Lab, Intro. to Physical Chemistry, General Chemistry, General Chemistry Lab
- Professor** George Fox University, Newberg, Oregon, Fall 2010–Spring 2011  
Courses taught: Physical Chemistry, Analytical Chemistry, Instrumental Analysis, etc.
- Associate Professor**, George Fox University, Newberg, Oregon, Fall 2005–Spring 2010
- Assistant Professor**, George Fox University, Newberg, Oregon, Fall 2001–Spring 2005
- Visiting Assistant Professor**, Trinity University, San Antonio, Texas, 2000–2001  
Courses taught: Physical Chemistry I and II, Physical Chemistry Laboratory, Introduction to Analytical Methods Laboratory
- Head Teaching Assistant**, Stanford University, Stanford, California, Spring 1996  
Course: Physical Chemistry Laboratory
- Teaching Assistant**, Stanford University, 1994–1998  
Courses included: Physical Chemistry, Physical Chemistry Laboratory, Physical Chemical Principles, Chemical Principles
- Research Program Assistant**, Wheaton College, Wheaton, Illinois, Summer 1993  
Pew Scholarship Program
- Teaching Assistant**, Wheaton College, 1991–1994  
Courses included: Physical Chemistry, General Chemistry, Organic Chemistry Laboratory, Analytical Chemistry Laboratory, Advanced Analytical Chemistry Laboratory, Biochemistry Laboratory, Methods of Physical Chemistry

### EDUCATION AND RESEARCH EXPERIENCE

- Foundation for Research and Technology Hellas**, Heraklion, Greece,  
Jul. 2009–Jun. 2010  
**Position:** Visiting Researcher  
**Research:** Interaction of Polarized Light with Matter

**Collaborators:** Peter Rakitzis, Stelios Tzortzakis, and Benoit Loppinet  
**Trinity University,** San Antonio, Texas, Aug. 1999–Aug. 2001

**Position:** Post-Doctoral Research Associate

**Research:** Chemical Kinetics on Thin Ice Films

**Principal Investigator:** Professor Christopher J Pursell

**Stanford University,** Stanford, California, 1994–1999

**Degree:** Doctor of Philosophy in Chemistry, September 1999

**Dissertation:** *Reaction Dynamics of State-Selected Ammonia Ions*

**Advisor:** Professor Richard N. Zare

**Wheaton College,** Wheaton, Illinois, 1990–1994

**Degree:** Bachelor of Science in Chemistry, ACS Accredited Track

**Independent Research:** Mass Spectrometry of Aromatic Tetracarboxylic Acids

## GRANTS, FELLOWSHIPS, AND AWARDS

**W.M. Keck Foundation,** "Turning Students into Practicing Scientists: Integrating Research Throughout the Science Curriculum," 2017, Eileen McMahon McQuade (project lead), Michael A. Everest (secondary lead), \$225,000.

**Outstanding Teaching Award,** Division of Natural and Behavioral Sciences, Westmont College, 2016.

**Professional Development Grant,** Westmont College, "Spatially Dependent Evanescent Wave Cavity Ring-Down Ellipsometry," 2012, Michael A. Everest, \$3,600.

**ACS PRF Type B,** "Interaction of Polyoxometallates with Organically-Modified Silica," 2007–2010, Michael A. Everest, \$65,000 (\$74,000 with GFU match).

**Faculty Research Grant,** George Fox University, "Adsorption of Polyoxometallates to Organically Modified Silica," 2007, Michael A. Everest, \$3,000.

**NSF CCLI,** George Fox University, "Using NMR Spectroscopy To Enhance The Stem Knowledge Base In Undergraduate Education At George Fox University And Nearby Institutions," 2007–2010, Robert C. Chambers, Jeffrey Vargason, Michael A. Everest, and Paul H. Chamberlain, \$150,000 (\$300,000 with GFU match).

**Faculty Research Grant,** George Fox University, "Is Hemoglobin Mobile When Adsorbed to Fused Silica?" 2006, Michael A. Everest, \$3,000.

**Faculty Research Grant,** George Fox University, "Adsorption of Hemoglobin to Silica," 2004, Michael A. Everest, \$3,000.

**Faculty Research Grant,** George Fox University, "Cavity Ring-down Spectroscopy of Aqueous Samples," 2003, Michael A. Everest, \$3,000.

**Faculty Research Grant,** George Fox University, "Construction of a Cavity Ring-Down Spectrometer," 2002, Michael A. Everest, \$3,000.

**Research Corporation Cottrell College Science Award**, “Interfacial chemical kinetics studied in situ with evanescent-wave cavity ring-down spectroscopy”, George Fox University, 2001, Michael A. Everest, \$35,500 (\$71,000 with GFU match).

**Elf Atochem Fellowship**, Stanford University, 1998

**Paul M. Wright Prize and Medal**, Wheaton College, 1994

## PUBLICATIONS

1. **How Toxic is milkweed when harvested and cooked according to myaamia tradition?**, Michael A. Everest, Michael P. Gonella, Holly G. Bowler, and Joshua R. Waschak, *Ethnobiology Letters*, **10**, 50–56 (2019).
2. **Controlling solvate intermediate growth for phase-pure organic lead iodide Ruddlesden-Popper  $(\text{C}_4\text{H}_9\text{NH}_3)_2(\text{CH}_3\text{NH}_3)_{n-1}\text{Pb}_n\text{I}_{3n+1}$  perovskite thin films**, Clayton J. Dahlman, Ryan A. DeCrescent, Naveen R. Venkatesan, Rhys M. Kennard, Guang Wu, Michael A. Everest, Jon A. Schuller, Michael L. Chabinyk, *Chemistry of Materials*, **31**, 5832–5844 (2019).
3. **Balanced polarimeter: A cost-effective approach for measuring the polarization of light**, Luke H.C. Patterson, Kenneth E. Kihlstrom, and Michael A. Everest, *Am. J. Phys.*, **83**, 91–94 (2015).
4. **Student’s Guided Activity Workbook for Introductory Chemistry**, Michael A. Everest; Prentice Hall, Pearson Custom Library Content, 2014.
5. **How does atomic structure affect electron clouds? A guided-inquiry NMR lab for General Chemistry** (cover), Michael A. Everest and Jeffrey M. Vargason, *J. Chem. Ed.*, **90**, 926–929 (2013).
6. **Sensitivity enhancement for evanescent-wave cavity-ring-down ellipsometry**, Dimitris Sofikitis, Katerina Stamataki, Michael A. Everest, Vassilis Papadakis, Jean-Louis Stehle, Benoit Loppinet, and T. Peter Rakitzis, *Optics Letters*, **38**, 1224–1226 (2013).
7. **Monitoring Adsorption and Sedimentation using Evanescent-Wave Cavity Ring-Down Ellipsometry**, Katerina Stamataki, Vassilis Papadakis, Michael A. Everest, Stelios Tzortzakis, Benoit Loppinet, T. Peter Rakitzis, *Applied Optics*, **52**, 1086–1093 (2013).
8. **Evanescent-Wave Cavity Ring-Down Ellipsometry**, Michael A. Everest, Vassilis M. Papadakis, Katerina Stamataki, Stelios Tzortzakis, Benoit Loppinet, and T. Peter Rakitzis, *J. Phys. Chem. Lett.*, **2**, 1324 (2011).
9. **(2+1) Laser-Induced Fluorescence of Spin-Polarized Hydrogen Atoms**, Lykourgos Bougas, Dimitris Sofikitis, Michael A. Everest, Andrew J. Alexander, and T. Peter Rakitzis, *J. Chem. Phys.* **133**, 174308 (2010).
10. **A Mechanical Apparatus for Hands-on Experience with the Morse Potential**, Michael A. Everest, *J. Chem. Ed.*, **87**, 1071 (2010).
11. **Discrete sums for I**

12. **Hemoglobin Adsorption to Silica Monitored with Polarization-Dependent Evanescent-Wave Cavity Ring-Down Spectroscopy**, M.A. Everest, V.M. Black, A.S. Haehlen, G.A. Haveman, C.J. Kliewer, and H.A. Neill *J. Phys. Chem. B*, **110**

- Hemoglobin Adsorption to Silica Monitored with Cavity Ring-Down Spectroscopy**  
Michael A. Everest, Chemistry at Interfaces Gordon Research Conference, Biddeford, ME July 2006 (poster)
- Super-Sensitive Spectroscopy of Some Sticky Substances** Michael A. Everest, Newberg Rotary, Newberg, OR, October 21, 2004 (talk)
- Adsorption of Hemoglobin to Silica Studied with Cavity Ringdown Laser Spectroscopy** University of Portland, Portland, OR, November 1, 2004 (talk)
- Super-Sensitive Spectroscopy of Some Sticky Substances** Michael A. Everest, Faculty Research Forum, George Fox University, Newberg, OR, April 22, 2004 (talk)
- Chemistry on Ice**, University of California, Berkeley, Department of Chemistry, Group Meeting of Prof. Richard Saykally, Berkeley, CA, May 22, 2003 (talk)
- Laser Chemistry, Surface Chemistry, and Laser Surface Chemistry**, Linfield College, Department of Chemistry, McMinnville, OR, April 4, 2002 (talk)
- Laser Chemistry, Surface Chemistry, and Laser Surface Chemistry**, Portland State University, Department of Chemistry, Portland, OR, February 22, 2002 (talk)
- The Influence of Vibration and Collision Energy on the Reaction of Ammonia Ions with Water Molecules**, Conference on Ion Chemistry and Mass Spectrometry, Lake Arrowhead, CA, January 1998 (talk)
- State-Selected Studies of the Reaction of  $\text{NH}_3^+(\nu_1; \nu_2)$  with  $\text{D}_2\text{O}$** , Conference on the Dynamics of Molecular Collisions, Gull Lake, MN, July 1997 (poster)
- A Vibrational-Mode-Selective Study of the Reaction  $\text{NH}_3^+(\nu_1; \nu_2) + \text{D}_2\text{O}$** , Air Force Office of Scientific Research Contractors Meeting, Boulder, CO, June 1996 (poster)
- Product Velocity Distributions for the Reaction of  $\text{NH}_3^+(\nu_1; \nu_2)$  with  $\text{ND}_3$** , Conference on Ion Chemistry and Mass Spectrometry, Lake Arrowhead, CA, January 1996 (poster)
- Branching Ratios and Product Velocity Distributions for the Reaction of  $\text{NH}_3^+(\nu_1; \nu_2)$  with  $\text{ND}_3$  and  $\text{D}_2$** , Conference on the Dynamics of Molecular Collisions, Asilomar, CA, July 1995 (poster)

## INSTITUTIONAL AND PROFESSIONAL SERVICE

### Service at Westmont College

- Academic Senate, Vice Chair** 2022–present
- Faculty Personnel Committee** 2018–present
- Teacher Credential Advisory Board** 2014–present
- Academic Senate, Academic Senate Review Committee** 2021–2022
- Faculty Personnel Committee** 2018–2020
- Academic Resources Committee Chair** 2016–2017
- Capital Improvement Committee** 2015–2017
- Faculty Council** Fall 2014–2016

**Diversity Committee** 2013–2014

**Athletic Committee** 2012–2013

**Executive Committee, American Scientific Affiliation** April 2019–present (Chair starting April 2023)

**Program Chair** 2016 American Scientific Affiliation National Meeting

**Vice Chair, Montecito Covenant Church** Feb. 2016–Jan. 2018

**Vice Chair, Southern California Christians in Sciences** June 2013–2016

**Session Chair, American Scientific Affiliation National Meeting** 2012

**POGIL NW Region, Steering Committee Member** 2010–2012

**Local Arrangements Chair, American Scientific Affiliation National Meeting** 2008

**Oregon Academy of Sciences, Chemistry Section Co-Chairperson** 2008–2009

**Service at George Fox University**

**General Education Committee Chairperson** Fall 2007–9, Fall 2010–Spring 2011

**Presidential Search Committee** 2006–2007

**Faculty Representative to the Board of Trustees** 2005–2006

**Dean of Arts and Sciences Search Committee Member** 2003–2004

**Reviewer of Scholarly Articles and Grant Proposals** Department of Energy, Petroleum Research Fund, *Langmuir*, *Analytical Chemistry*, *Journal of Chemical Education*, *Review of Scientific Instruments*, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, *Sensors and Actuators B: Chemical*, *Perspectives on Science and Christian Faith*

**Reviewer of Educational Materials** Pearson High-School Chemistry

## **PROFESSIONAL AFFILIATIONS**

**American Physical Society**, Member August 1998–Present

**American Chemical Society**, Member March 1996–Present

**American Scientific Affiliation**, Member May 1994–Present

**Electrochemical Society**, Member July 2001–2003