

GERALDINE L. RICHMOND

Website: <http://RichmondScience.uoregon.edu>

PROFESSIONAL APPOINTMENTS

2013-2026 Presidential Chair of Science and Professor of Chemistry, University of Oregon

Research Interests: (1) Understanding the molecular structure and dynamics of interfacial processes that have relevance to environmental remediation, biomolecular assembly, atmospheric chemistry and alternative energy sources; (2) Conducting social science research on the factors that affecting educational/career progress and retention of scientists and engineers in U.S. universities and in developing countries.

Teaching Interests: Science literacy for nonscientists; career development workshops for students and career scientists and engineers in the U.S. and developing countries; providing courses in career development in the sciences for undergraduate and graduate students; coaching undergraduate and graduate students in effective scientific presentations.

Director of the National Science Foundation Funded Summer Research Experience for Undergraduates (REU) Program in Chemistry, Physics and Materials Science (1986-2021)

Over 300 students have participated in this program that was the longest running REU program in the country with extensive participation and mentoring by participating faculty.

Founder and Director of the Presidential Undergraduate Research Scholars (PURS) Program (2015-Present)

Over 67 students have participated in this program that targets UO undergraduates from across the sciences to work in faculty laboratories on research during the academic year. The program is targeted to students from Oregon. The students attend weekly meeting with discussions and career preparation activities.

11/2025-8/2026 Interim Vice President for Research and Innovation, University of Oregon

Appointed by President Scholz as the interim Chief Research Officer for the University

2021-2025 Undersecretary for Science and Innovation (S4) at the U.S. Department of Energy (DOE) in Washington, DC

Appointed by President Biden and confirmed by a unanimous vote of the U.S. Senate;
Served as the Secretary's senior advisor on science and technology

Responsibilities: As a President Biden appointee and with a unanimous Senate vote, Richmond led the DOE's Office of Science, the nation's largest federal sponsor of basic research in the physical sciences, the applied research and development offices of Nuclear Energy, Electricity, Energy Efficiency and Renewable Energy, Fossil Fuel and Carbon Management, Arctic Energy and DOE's cross-cutting programs which include the critical minerals, fusion energy and the Energy Earthshots and 13 of the 17 DOE National Laboratories. She created DOE's new Office of Critical

and Emerging Technologies (CET) Office for Artificial Intelligence, Quantum Technologies and Biosecurity.

1998- 2026 Founder and Director of COACH for Scientists and Engineers

Founded in 1998, the nationally recognized COACH institute provides high-impact programs to ensure that all scientists and engineers have an equal opportunity to be successful in pursuit of their career aspirations. It conducts social science research and develops data driven programs for increasing the number and career success of undergraduate and students, postdoctoral associates, faculty and researchers in STEM fields in the U.S. and in developing countries with a particular focus on underrepresented groups. While it started with women chemists, it now covers all STEM disciplines including engineering, physics, mathematics, and biosciences. Over 25,000 participants have attended COACH workshops around the world. All workshops are provided by science and engineering faculty that have been trained through the COACH-the-COACHes program.

- 2001-2013 Richard M. and Patricia H. Noyes Professor of Chemistry, University of Oregon
- 1998-2001 Knight Professor of Liberal Arts and Sciences, University of Oregon
- 1991- Professor of Chemistry, University of Oregon
- 1991-1995 Director, Chemical Physics Institute, University of Oregon
- 1985-1991 Associate Professor of Chemistry, University of Oregon
- 1980-1985 Assistant Professor of Chemistry, Bryn Mawr College

EDUCATION

- 1976—1980 Ph.D. Chemistry, University of California, Berkeley, Advisor: George C. Pimentel
- 1971—1975 B.S. Chemistry, Kansas State University

AWARDS AND HONORS

- 2025 Gold Medal Award from the Society for Applied Spectroscopy
- 2023 Othmer Gold Medal, Science History Institute, Philadelphia, PA
- 2021 College of Arts and Sciences Alumni Award, Kansas State University
- 2021 Oregon History Maker, Oregon Historical Society
- 2021 Honorary Degree, Union College
- 2020 Dickson Prize, Carnegie Mellon University
- 2019 Linus Pauling Legacy Award, Oregon State University
- 2018 Linus Pauling Medal Award
- 2018 Priestley Medal, American Chemical Society (ACS)
- 2018 MHS Wall of Fame, Manhattan High School, Manhattan, Kansas
- 2018/19 Visiting Fellow, Chemical Institute of Technology, Mumbai, India
- 2017 Howard Vollum Award for Distinguished Achievement in Science and Technology, Reed College

2017 Honorary Doctorate Degree, Kansas State University
2017 Honorary Doctorate Degree, Illinois Institute of Technology
2016- Secretary, American Academy of Arts and Sciences; Member of the Board, Council and Trust
2015 U.S. State Department Science Envoy for the Lower Mekong River Countries
2015 President of the American Association for the Advancement of Science
2014 Pittsburgh Spectroscopy Award, Spectroscopy Society of Pittsburgh
2013 National Medal of Science (Presented by President Obama in 2016)
2013 Davison-Germer Prize for Atomic or Surface Physics, American Physical Society (APS)
2013 Charles L. Parsons Award, American Chemical Society (ACS)
2011 National Academy of Sciences (NAS) Member
2011 Joel Henry Hildebrand Award in the Theoretical and Experimental Chemistry of Liquids (ACS)
2011 American Chemical Society Fellow
2009 Society for Applied Spectroscopy Honorary Membership Award
2008 Bomem-Michelson Award, Coblentz Society
2008 Association for Women in Science (AWIS) Fellow
2008 Society for Applied Spectroscopy Fellow
2007 John S. Guggenheim Fellowship
2006 American Academy of Arts and Sciences Fellow
2006 Council on Chemical Research Diversity Award
2005 Award for Encouraging Women in the Chemical Sciences, American Chemical Society
2004 Spiers Medal, Royal Society of Chemistry (UK), Faraday Division
2004 American Association for the Advancement of Science Fellow
2002 Spectrochemical Analysis Award, Analytical Chemistry Division, American Chemical Society
2002 Women Chemists Committee Regional Award for Diversity, American Chemical Society
2001 Oregon Outstanding Scientist Award, Oregon Academy of Science
2001 ADVANCE Leadership Award, National Science Foundation
2000 Research Creativity Extension, National Science Foundation
1998 Soroptimist International, Women Helping Women Award, Eugene, OR
1997 Presidential Award for Excellence in Science and Engineering Mentoring, White House
1997 College of Arts and Sciences Alumni Award, Kansas State University
1996 Francis P. Garvan – John M. Olin Medal of the American Chemical Society
1993 Agnes Faye Morgan Research Award (Iota Sigma Pi Honorary Society)
1993 American Physical Society Fellow
1991 Faculty Award for Women Scientists and Engineers, National Science Foundation
1991 Research Creativity Extension, National Science Foundation
1989 Coblentz Society Spectroscopy Award
1986 Chemistry Department Alumni Award, Kansas State University
1986 Camille and Henry Dreyfus Teacher-Scholar Award
1985 Presidential Young Investigator Award, National Science Foundation
1985 Alfred P. Sloan Research Fellow

- 1982 Rosalyn Schwartz Award, Bryn Mawr College
 1983 Junior Faculty Research Award, Bryn Mawr College

PROFESSIONAL SERVICE

- 2025-2027 Oppenheimer Science and Energy Leadership Program to Develop the Next Generation of Leaders at the DOE National Laboratories, Senior Mentor
- 2025-2027 Pritzker School of Molecular Engineering, University of Chicago Advisory Board Member
- 2025-2026 Co-Chair of the NAS and Smithsonian Institute's "Revolutions in Science" Symposium to celebrate the 250th anniversary of our Nation's founding
- 2025-2026 Organizing Board for the NAS US-France Initiative on "250 Years of Scientific Revolutions Across the Atlantic", Member
- 2018-2021 National Science Board, Reappointment by President Trump**
- 2018-2021 Educational Advisory Board, Guggenheim Foundation
- 2018-2020 President-Elect (2018), President (2019), Past President and Board Member (2020-2021) Sigma Xi, The Scientific Research Honor Society**
- 2016-2021 Secretary, American Academy of Arts and Sciences; ex-officio Member of the Board, Council and Trust**
- 2016-2021 Elsevier Foundation Board Member
- 2012-2018 National Science Board Member, President Obama Appointment**
- 2020-2021 Brown Foundation Advisory Board Member
- 2020-2023 National Medal of Science InSTEM Advisory Board**
- 2020 Science for the Future Solvay Prize Selection Committee, Brussels, Belgium
- 2015-2020 International Research Advisory Panel Member, King Mongkut's University of Technology Thonburi, Bangkok, Thailand
- 2015-2018 International Advisory Board of The Research Council of Oman, Muscat, Oman**
- 2015-2016 U.S. Science Envoy for the Lower Mekong Countries of Vietnam, Thailand, Cambodia, Myanmar, Laos, Department of State**
- 2013-2019 Editorial Advisory Board, Journal of the American Chemical Society
- 2014-2016 President-Elect (2014), President (2015), Chair of the Board of Directors (2016) American Association for the Advancement of Science (AAAS)**
- 2012-2017 Membership Canvassing Committee, Chemistry Section, NAS
- 2015-2016 Search Committee Member, Editor for *Science Magazine*
- 2010-2015 Asst. Secretary for the Sciences, American Academy of Arts and Sciences**
- 2010-2015 Editorial Advisory Board Member of Chemical Reviews
- 2012-2015 Editorial Advisory Board Member of the Journal of Physical Chemistry
- 2014 Search Committee Member, AAAS Chief Executive Officer
- 2014 Search Committee Member, Director of Argonne National Laboratory
- 2011-2013 Presidential Blue Ribbon Commission on Graduate Education in the Chemical Sciences, American Chemical Society**

2006-2013 Hydrogen and Fuel Cell Technical Advisory Committee Member, Office of the Secretary, Department of Energy

2008-2012 Research Corporation Presidential Advisory Board Member

2011-2012 Dept. of Energy Ames Laboratory Oversight Board Member

2010-2012 Women of Color Advisory Board Member, Harvard University

2010-2012 U.S. Council of Colleges of Arts and Sciences ADVANCE Advisory Board Member

2011-2012 West Virginia University ADVANCE Advisory Board Member

2009-2012 University of Washington On-Ramps ADVANCE Advisory Board Member

2012 Presidential Search Committee Member, University of Oregon

2012 Director of Mathematical and Physical Sciences (MPS) Search Committee Member, National Science Foundation

2008-2011 Chair-Elect (2008), Chair (2009), Former Chair(2010) Chemistry Section, AAAS

2009-2010 Chair, Committee of Visitors, Workforce Development for Teachers and Scientists, Department of Energy

2005-2010 *Associate Editor, Annual Review of Physical Chemistry*

2006- 2012 Editorial Advisory Board Member of Accounts of Chemical Research

2006-2009 Editorial Advisory Board Member, Biointerphases

2007- Membership Committee, American Academy of Arts and Sciences

2007-2010 ADVANCE Advisory Board Member, Rice University

2009 Helmholtz Association (Germany), Review Committee Member for Sponsored Programs in "Research with Photons, Ions and Neutrons"

2008-2009 Presidential Search Committee Member, University of Oregon

2006-2008 Editorial Advisory Board Member, Journal of Chemical Physics

2007-2008 Chair, Committee of Visitors (COV), Chemical Sciences, Geosciences, and Biosciences Division, Department of Energy, Basic Energy Sciences

2006-2008 Chair, Science Advisory Committee, Stanford Synchrotron Radiation Laboratory

2007-2008 Editor-in-Chief Search Committee Member, Journal of Chemical Physics

2007-2008 Steering Committee Member, NSF Sponsored Workshop on Recruitment and Retention of Minorities in the Chemical Sciences

2006-2007 Chair, Committee of Visitors (COV), Chemistry Division, NSF

1999-2006 State of Oregon, Board of Higher Education Member
Gov. Kulongoski Appointee (2004-2006)
Gov. Kitzhaber Appointee (1999-2003)
Vice President and Interim President (2004)
Chair, Chancellor's Office Reorganization Committee (2004-2006)

2005-2006 COSEPUP Committee on Women in Academic Science and Engineering, NAS

2005-2006 Steering Committee, NSF, NIH & DOE Sponsored Workshop for Department Chairs on

- Gender Equity in the Chemical Sciences
- 2005 Presidential Advisory Panel, Research Corporation
- 2004 Editor-in-Chief Search Committee Member, Journal of Physical Chemistry
- 2003-2007 Chemical Sciences Roundtable Member, NAS/NRC
- 2002-2005 Advisory Board Member, Chemical and Engineering News
- 2001-2003 Editorial Advisory Board Member, Langmuir
- 1995-2003 Basic Energy Sciences Advisory Committee, Department of Energy
Chair (1998-2003); Member (1995-1998)**
- 1996-2001 Member, Council on Chemical Sciences, Department of Energy**
- 1995-2000 Executive Committee, Physical Chemistry Division, ACS
Chair (1999); Program Chair (1998)
- 1992-2004 *Chair*, Women Faculty Resource Network, University of Oregon
- 1993-1996 Editorial Board Member, Applied Spectroscopy
- 1993-1994 Chair, National Academy of Sciences Frontiers in Science Symposium**
- 1993-1999 U.S. National Advisory Committee Member, IUPAC
- 1992-1995 Editorial Advisory Board Member, Analytical Chemistry,
- 1991-1994 Editorial Advisory Board Member, Accounts of Chemical Research,
- 1991-1994 Board on Solid State Sciences Member, NAS/NRC
- 1991-1995 Editorial Board Member, Critical Reviews of Surface Science
- 1990-1994 Editorial Advisory Board Member, Vibrational Spectroscopy
- 1990-1995 Laser Science Topical Group Advisory Committee Member, American Physical Society
- 1989-1994 Editorial Board Member, Journal of Physical Chemistry
- 1989-1992 Materials Science Advisory Board Member, National Science Foundation**
- 1989-1992 Board on Chemical Science and Technology Member, NAS/NRC**
- 1988-1991 Executive Committee Member, Coblenz Society (Spectroscopy)
- 1986-1989 Governor's Science Advisory Board Member, State of Oregon, Gov. Goldschmidt appointee**
- 1986-1989 Chemistry Advisory Board Member, National Science Foundation**
- 1986-1989 Executive Board Member, Western Spectroscopy Association

LEGISLATIVE AND GOVERNMENT TESTIMONIES/BRIEFINGS

Testimony by Dr. Geraldine L. Richmond, University of Oregon to the United States Senate, Committee on Energy and Natural Resources, Hearing to Examine "Research Security Risks Posed by Foreign Nationals from Countries of Risk Working at the Department of Energy National Laboratories and Necessary Mitigation Steps", U.S. Senate Building, Washington DC, February 20, 2025.

<https://www.energy.senate.gov/services/files/B1C92139-655C-4D9E-B52B-CACABF133A8B>

Testimony of Dr. Geraldine L. Richmond, Undersecretary for Science and Innovation, U.S. Department of Energy before the Committee on Science, Space and Technology, United States House of

Representatives, "Topic: Examining Federal Science Agency Actions to Secure the U.S. Science and Technology Enterprise", U.S. House Building, Washington, DC, February 15, 2024.

<https://democrats-science.house.gov/imo/media/doc/Testimony%20-%20Gerri%20Richmond.pdf>

Testimony of Dr. Geraldine L. Richmond, Undersecretary for Science and Innovation, U.S. Department of Energy before the House Committee on Oversight and Accountability, Subcommittee on Economic Growth, Energy Policy and Regulations, U.S. House of Representatives, "Topic: Gas Stove Rule", U.S. House Building, Washington, DC July 18, 2023.

<https://oversight.house.gov/wp-content/uploads/2023/07/July-18-2023-HOA-Dr.-Richmond-Final-Testimony.pdf>
<https://www.youtube.com/watch?v=jD7VkJGYKSk>

Testimony of Dr. Geraldine L. Richmond, Undersecretary for Science and Innovation, U.S. Department of Energy before the U.S. House Committee on Appropriations, Subcommittee on Energy and Water Development, "Topic: President's FY 2023 Budget Request for the Department of Energy", U.S. House Building, Washington, DC May 12, 2022.

<https://docs.house.gov/meetings/AP/AP10/20220512/114706/HHRG-117-AP10-Wstate-RichmondD-20220512.pdf>

Testimony of Dr. Geraldine L. Richmond, Undersecretary for Science and Innovation, U.S. Department of Energy Before the Committee on Science, Space and Technology, U.S. House of Representatives, U.S. House Building, Washington, DC, April 27, 2022.

<https://www.congress.gov/117/meeting/house/114677/witnesses/HHRG-117-SY20-Wstate-RichmondG-20220427.pdf>

Testimony of Dr. Geraldine L. Richmond, Undersecretary for Science and Innovation, U.S. Department of Energy before the Committee on Energy and Natural Resources, U.S. Senate, Building, Washington, DC March 1, 2022.

<https://www.energy.senate.gov/services/files/B294AAD1-3030-40D9-B3E8-36E0472728B8>

Statement of Geraldine L. Richmond, Nominee for the Position of Undersecretary for Science and Energy at the United States Department of Energy before the Committee on Energy and Natural Resources, United States Senate," August 3, 2021.

<https://www.energy.senate.gov/services/files/7AF4E2B6-F7DF-496D-9CC0-E0D82CD60ADA>

Opening remarks: <https://www.youtube.com/watch?v=8OZ2flxPFI4>

U.S. House of Representatives Briefing, "National Science Board 2018 Science and Engineering Indicators Report", Washington, DC, February 2018.

U.S. Senate Briefing, "National Science Board 2018 Science and Engineering Indicators Report", Washington, DC, February 2018.

Oregon State House of Representatives, Subcommittee on Education, "Faculty Appointments and Hiring", Salem, OR, April 2007.

Oregon State House of Representatives, Subcommittee on Education, "Excellence in Research in the Oregon University System", Salem, OR, March 2005.

United States Senate, Committee on Science, Technology and Space on the issue of "Title IX and Women in Science", Washington, DC, October 2002.

United States House of Representatives, Subcommittee on Energy of the Committee on Science on "The Department of Energy Office of Science – Issues and Opportunities", Washington, DC, May 2001.

DISTINGUISHED LECTURESHIPS AND ADDRESSES

Frontiers in Science Lecturer, University of Utah, Salt Lake City, UT March 2026

Inaugural Lietzke Lecturer, University of Tennessee, Knoxville, TN February 2026

Kentucky Derby Lecturer, University of Louisville, Louisville, Kentucky, TN May 2025

Louis Jacob Bircher Lecturer, Vanderbilt University, Nashville, TN, April 2025

Shain Colloquium Speaker, Department of Chemistry, University of Wisconsin, Madison, WI, November 2023.

Dreyfus Lecturer, Lewis and Clark University, Department of Chemistry, Portland, OR, September 2023.

Samuel Weissman Lecturer, Washington University St. Louis, Department of Chemistry, St. Louis, MO, February 2023.

Hilda Karlsson Roderick Lecturer, Department of Chemistry, Berea College, Louisville, Kentucky, March 2022.

Plenary Speaker, International Seminar on Chemistry, Indonesia, October 2020. (Virtual)

Weber Distinguished Lectureship, Department of Chemical Engineering, Ann Arbor, MI, October 2020. (Virtual)

58th Annual Robbins Lecture Series, Pomona College, Claremont, CA, February 2020

Dickson Prize Lecture, Carnegie Mellon University, Pittsburgh, PA, February 2020

Helen Murray Free Lectureship, Department of Chemistry, College of Wooster, Wooster, OH, February 2020.

Keynote Address, 2020 Murdock Partners in Science National Conference, San Diego, CA, January 2020

Frank J. Welcher Lectureship, Department of Chemistry, Indiana University-Purdue University, Indianapolis, IN, November 2019

Indianapolis, Plenary Speaker, 2019 Naval Academy Science & Engineering Conference (NASEC), U.S. Naval Academy, Annapolis, MD, November 2019

Max T. Rogers Distinguished Lectureship, Department of Chemistry, Michigan State University, Lansing, MI, October 2019

Harold S. Johnston Lecture, Department of Chemistry, Emory University, Atlanta, GA, October 2019

J. Mark Sowers, College of Science, Virginia Polytechnic Institute and State University, Blacksburg, VA, October 2019

Keynote Address, Phi's Research and Innovation Summit 2019, Dead Sea, Jordan, August 2019

Dole Lectures, Department of Chemistry, Northwestern University, Evanston, IL, August 2019.

Plenary Address, International Conference on Advanced Vibrational Spectroscopy 10, Auckland, NZ,

July 2019

Keynote Address, Northwest Regional ACS Meeting, Portland, OR, June 2019

Commencement Address, College of Chemistry, University of California, Berkeley, May 2019.

William H. Flygare Memorial Lecture in Physical Chemistry, Department of Chemistry, University of Illinois, Urbana-Champaign, IL May 2019

Chemistry Alumni Appreciation Lecture, Department of Chemistry, University of Georgia, Athens, GA, April 2019

Hillger-Roberts-Kranbuehl Lecture, Department of Chemistry, College of William and Mary, Williamsburg, VA, April 2019

Women of Science Speaker Series, Scripps College, Claremont, CA, March 2019

Keynote Address, International Women's Day Symposium, Colombo, Sri Lanka, March 2019

Izatt-Christensen Lectures, Department of Chemistry, Brigham Young University, Provo, UT, February 2019

Signature Lecturer for the Inclusive Lecture Series, Louisiana State University, Baton Rouge, LA, February 2019

Gooch-Stephens Lecture, Department of Chemistry, Baylor University, Waco, TX, February 2019

Margaret-Ann Armour Speaker, University of Alberta, Edmonton, Canada, January 2019

Mumbai Public Symposium Speaker, Mumbai University, January 2019

Award Address, Linus Pauling Medal Symposium, Seattle, WA, November 2019

Catherine Bone Memorial Lectureship, Wilkes University; Wilkes-Booth, Pennsylvania, October 2018

Kentucky Derby Lecturer, University of Louisville, Louisville, Kentucky, May 2018

Award Address, Priestley Medal Symposium, New Orleans, LA, March 2018

Keynote Address, Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA, February 2018.

St. Olaf College Distinguished Lecturer, St. Olaf College, Northfield, MN, February 2018

Prins Lecturer, Department of Chemistry, Syracuse University, Syracuse, NY, February 2018

Reed College, Convocation Speaker, Portland, OR, August 2017

Cottrell Scholars Conference Keynote Speaker, Research Corporation, Tucson, AZ, 2017

Annual General Meeting of the National Academy of Science of Sri Lanka, 2017

Illinois Institute of Technology, Commencement Address, Chicago, IL, 2017

Kansas State University, Graduate School Commencement Address, Manhattan, KS, 2017

Jean Dreyfus Lectureship for Undergraduate Institutions, Iona University, New Rochelle, NY, 2017

Director's Colloquium, National Institute of Standards and Technology, Gaithersburg, MD, 2017

Women in the Chemical Sciences Lecturer, University of Washington, Seattle, WA, 2017

Pariser-Parr Distinguished Lecturer, University of North Carolina, Chapel Hill, NC, 2016

Tourtellotte Lecturer, Kalamazoo College, Kalamazoo, MI, 2016

Edison Lecture, University of Notre Dame, Notre Dame, IL, 2016

Tieckelmann Lecture, University of Buffalo, SUNY, Buffalo, NY, 2016
Ott Lecture, Grand Valley State University, Ottawa County, MI, 2015
Fisher Sustainability Lecturer, University of Victoria, University of British Columbia and Simon Fraser University, 2015
Priestley Lectureship, Pennsylvania State University, PA, 2015
Franklin Lecture, Rice University, Houston, TX, 2015
College Larson Lectureship, University of St. Thomas, St. Paul, MN, 2014
McGavock Lectureship, Trinity University, San Antonio, TX, 2014
William D. Smart Lectureship, University of West Florida, 2014
Lardy Lecture, South Dakota State University, Brookings, SD, 2014
Plenary Speaker, Royal Australian Chemical Institute, Physical Chemistry Conference, 2013
Frederick Kauffman Lecturer, University of Pittsburgh, Pittsburgh, PA, 2013
Director's Special Colloquium, Argonne National Laboratory, Lemont, IL, 2013
Bold Aspirations Lecturer, University of Kansas, Lawrence, KS, 2013
Eyring Lecturer, Arizona State University, Phoenix, AZ, 2013
Ouellette and Swenton Lectureship, Ohio State University, Columbus, OH, 2012
Nebraska Chemistry/ADVANCE Chair Lectureship, University of Nebraska, Lincoln, NB, 2012
Trustees' Council of Penn Women Lecture in Chemistry, University of Pennsylvania, Philadelphia, PA, 2011
Kent R. Wilson Lectureship, University of California, San Diego, CA, 2011
Iota Sigma Pi Invited Lecturer, Purdue University, West Lafayette, IN, 2011
WST Distinguished Lectureship, Georgia Institute of Technology, Atlanta, GA, 2011
Skidmore-Union Colleges Distinguished Scientist Lecturer, Saratoga Springs, NY, 2011
Campbell Lectureship, University of Southampton, UK, 2011
Danforth Lectureship, Grinnell College, Grinnell, IA, 2010
Plenary Speaker, International Conference on Raman Spectroscopy, Boston, MA, 2010
James D. and Julia P. Morrison Lectureship, Carleton College, Northfield, MN, 2010
Presidential Lectureship, Iowa State University, Ames, IA, 2010
Henry Emmet Gunning Lecturer, University of Alberta, Canada, 2010
James and Jeanette Neckers Lecturer, Hope College, Holland, MI, 2010
NSF MPS Distinguished Lecture, National Science Foundation, 2010
Arthur William Davidson Memorial Lectureship, University of Kansas, Lawrence, KS, 2009
Frank T. Gucker Lectureship, Indiana University, Bloomington, IL, 2009
Distinguished Guest Speaker, 11th Annual Beckman Scholars Symposium, Irvine, CA, 2009
Eberly College of Arts and Sciences Distinguished Lectureship, West Virginia University, 2009
AdvanceVT Distinguished Lectureship, Virginia Tech, Blacksburg, VA, 2009

L. Carroll King Memorial Lectureship, Northwestern University, Evanston, IL, 2008
Sr. Mary Thompson Scholar, College of St. Catherine, St. Paul, MN, 2008
George C. Pimentel Memorial Lectureship, Univ. of California, Berkeley, CA, 2008
"Science Without Limits" Lectureship, Lewis and Clark College, Portland, OR, 2008
Leland Wilson Chemistry Lectureship, University of Northern Iowa, Cedar Falls, IA, 2007
Fred M. Garland Lectureship, Texas A&M University, College Station, TX, 2007
Distinguished Women in Science Speaker, Stanford University, Stanford, CA, 2007
Donna Russell Fox Lectureship, Cornell College, Mount Vernon, IA, 2006
Keynote Address, 20th Anniversary of the Natl. Conference on Undergraduate Research, 2006
Howard S. Brode Memorial Lectureship, Whitman College, Walla Walla, WA, 2006
Charles H. Fisher Lecturer, Roanoke College, Salem, VA, 2005
Keynote Address, Karen E. Wetterhahn Symposium, Dartmouth University, Hanover, NH, 2005
Swiss Research Lectureship, Conférence Universitaire de Suisse Occidentale, Switzerland, 2005
Keynote Address, Science Careers in Search of Women Conference, Argonne Natl. Lab., 2005
McElvain Lectureship, University of Wisconsin, Madison, WI, 2004
Spiers Memorial Lecturer, Faraday Council of the Royal Society of Chemistry, Cambridge, UK 2004
H.H. King Lectureship, Kansas State University, Manhattan, KS, 2004
Cottrell Scholars Lecturer, Research Corporation, 2004
Kolthoff Distinguished Lectureship, University of Minnesota, Minneapolis, MN, 2003
S. Dexter Squibb Distinguished Lectureship, North Carolina State, Asheville, NC, 2002
Nakamoto Lectureship, Marquette University, Milwaukee, WI, 2002
Bergmann Lectureship, Yale University, New Haven, CT, 2002
Gerhard L. Closs Lectureship, University of Chicago, IL, 2002
Directors Lectureship, Pacific Northwest National Laboratory, Richland, WA, 2002
Distinguished Lectureship, American Physical Society Laser Science Topical Group, 1996—2000
Pittsburgh Conference Lectureship, Duquesne University, Pittsburgh, PA, 2000
Frontiers in Chemical Research Lectureship, Texas A&M University, College Station, TX, 2000
Clifford B. Purves Lectureship, McGill University, Montreal, Canada, 1999
Lucy W. Pickett Lectureship, Mount Holyoke College, South Hadley, MA, 1997
Phillips Distinguished Lectureship, Haverford College, Haverford, PA, 1995
Shell Lecturer, National Science Teachers Association, 1991

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

National Academy of Sciences (Elected Member)
American Academy of Arts and Sciences (Elected Fellow and Secretary for Elections)
Organization for Women Scientists in the Developing World (Associate Member)

American Association for the Advancement of Science (Fellow)
American Chemical Society (Fellow)
American Physical Society (Fellow)
Society for Applied Spectroscopy (Fellow)
American Association for Women in Science (Fellow)
International Women's Forum (Elected Member)
Oregon Women's Forum (Elected Member)
National Organization for the Professional Advancement of Black Chemists and Chemical Engineers – NOBCCHE - (Member)
Society for the Advancement of Chicanos and Native American Scientists – SACNAS - (Member)

PUBLICATIONS

While serving in the Biden Administration, Richmond was forbidden, for COI reasons, for having her name on any of the research papers resulting from two research programs for which Richmond had obtained support through grants that for which Richmond had gotten funding. Huge thanks go to P. Lewis, J. Stockard, N.S. Ngo and L. Scatena for taking on the responsibilities while Richmond was away. Papers that fell under that COI White House rule are indicated with *.
Papers that involved our social science research are indicated with † to distinguish them from the physical science research papers.

- *† "The COVID-19 Pandemic and PhD Students in the Chemical Sciences: Influences on Degree Completion and Commitment to the Field." J. Stockard, N.S. Ngo, J. Schlatter, and P. Lewis. Submitted to *Journal of Chemical Education* 2/2026
- *† "The Declining Likelihood of Completing the PhD in Chemical Sciences: The Role of Graduate School Experiences", J. Stockard, N.S. Ngo, J.C. Schlatterer, and P. Lewis. *Journal of Chemical Education*, in review, 2/16/2026.
- *† "Plans and Experiences of Postdoctoral Scholars in the Chemical Sciences", J.C. Schlatterer, J. Stockard, N.S. Ngo, and P. Lewis, *J. Chem, Ed.*, 102, 11, 4795-4806, 2025
- *† "The Need for Professional Development Opportunities for Women Scientists Following the COVID-19 Pandemic", J. Stockard, N.S. Ngo, G. Linares, M. Tuleya, W. Ganey, and P. Lewis, *Journal of Women and Minorities in Science and Education*, in review.
- *(236) "Stabilizing Strands: Exploring the Kinetic Stability of Polymer-coated Emulsions with Surface Specific Spectroscopy", A.N. Mapile, and L. F. Scatena, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 697, Article 134414, 2024.
- *(235) "Bulking Up: The Impact of Polymer Sterics on Emulsion Stability", A.N. Mapile, and L.F. Scatena, *Soft Matter* 20, 7471 (2024).
- *(234) "A Tale of Two Tails: Tail Ordering of Stoichiometric 1:1 DTAB:SDS Pairs Absorbed at the Oil-Water Interface", K.K. Jones, and L.F. Scatena, *Langmuir*, 40, (27445-27454) 2024.
- (233) "Interfacial Steric and Molecular Bonding Effects Contributing to the Stability of Neutrally Charged Nanoemulsions", E. Tran and G.L. Richmond, *Langmuir*, 37, 2021.

- †(232) "The Chemistry Graduate Student Experience: Findings from an ACS Survey", J. Stockard, M. Noviski, C. Rohlifing, G. Richmond and P. Lewis, *J. Chem. Educ.* (461–468) 2022.
- †(231) "Policies and Practices to Improve the Chemistry Graduate Student Experience: Implications of the ACS Survey of Graduate Students", C.M. Rohlifing, G.L. Richmond, M. Noviski, P. Lewis, and J. Stockard, *J. Chem. Educ.* 99, (10-13) 2022.
- (230) "Playing Favorites: Preferential Adsorption of Nonionic over Anionic Surfactants at the Liquid/Liquid Interface", R.M. Altman, E. Christoffersen, J. Konnor, V. Krause, and G.L. Richmond, *Langmuir*, 37 (12213-12222) 2021.
- (229) "Dynamic Duo: Vibrational Sum Frequency Scattering Investigation of pH-Switchable Carboxylic Acid/Carboxylate Surfactants on Nanodroplet Surfaces", M.J. Foster, A.P. Carpenter and G.L. Richmond, *J. Phys. Chem. B* 125 (9629-9640) 2021.
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INVITED TALKS AND LECTURESHIPS ON RESEARCH

Meetings, Events and Symposia

"Curiosity, Research and the Wisdom of Dr. Seuss, Frontiers of Science Lecturer, University of Utah, Salt, Lake City, Utah, March 2026.

"Curiosity, Research and the Wisdom of Dr. Seuss", Inaugural Lietzke Lecturer, Department of Chemistry, University of Tennessee, Knoxville, February 2026

"Mulling Over Nanoemulsions: Interfacial Molecular Structure, Stabilization and Assembly", Grahame Award Symposium, 239th Electrochemical Society Meeting, May 31, 2021. (Virtual)

"Making the Rounds: Molecular Structure, Assembly and Stabilization at Nanoemulsion Surfaces", American Chemical Society, Physical Chemistry Division special lectureship, April 2021. (Virtual)

"Surf, Sink and Swim: Understanding Environmentally Important Processes at Water Surfaces",

Undergraduate physical chemistry class, West Chester University, February 2021 (Virtual)

"Understanding Environmentally Important Processes at Water Surfaces", Plenary Speaker, International Seminar on Chemistry Meeting in Jakarta, Indonesia, October 2020. (Virtual)

"Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces", "Oil on Water: Calming the Seas but Not the Science", "Mulling over Nanoemulsions: Interfacial Molecular Structure, Assembly and Stabilization", Robbins Lecture Series, Pomona College, February 2020.

"The Power of Combining Experiment and Theory for Understanding Environmentally Important Processes at Water Surfaces", King Mongkut's University of Technology Thonburi International Research Advisory Panel Meeting, Bangkok Thailand, January 2020.

"Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces", 2020 Murdock Partners in Science National Conference, San Diego, CA, January 2020.

"At the Water's Edge: Understanding Environmentally Important Processes at Aqueous Surfaces", Plenary Speaker, 2019 Naval Academy Science & Engineering Conference (NASEC), U.S. Naval Academy, Annapolis, MD, November 2019.

"At the Water's Edge: Understanding Environmentally Important Processes at Aqueous Surfaces", Conference on The Future of Science: Chemistry and Materials for the 21st Century Conference, Autonomous University of Mexico (UNAM) with the University of California, Berkeley Global Science Institute, Mexico City, October 2019.

"Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces", Keynote Address, Phi's Research and Innovation Summit 2019, Dead Sea, Jordan, August 2019.

"Mulling Over Emulsions: Interfacial Molecular Structure, Assembly and Stabilization", Plenary Address, International Conference on Advanced Vibrational Spectroscopy 10, Auckland, NZ, July 2019.

"The Surface of Water: It's Role in Environmentally Important Processes", Keynote Address, Northwest Regional ACS Meeting, Portland, OR, June 2019.

"The Surface of Water: It's Role in Environmentally Important Processes", U.S. Patent and Trade Office (USPTO) Network of Executive Women Event, USPTO Office Building, Alexandria, VA, April 2019.

"Surf, Sink and Swim: Understanding Environmentally Important Processes at Water Surfaces", India Lecture Tour, University of Mumbai, Mumbai and National Chemistry Laboratory, Pune India, January 2019.

"The Magic and Mysteries of....." TEDX Salem, Salem, OR, January 5, 2019.

"The Mysterious Tale of Nanoemulsions", Pauling Medal Award Symposium, University of Washington, Bothell, WA, November 2019.

"Surf, Sink and Swim: Understanding Environmentally Important Processes at Water Surfaces", Pauling Medal Award Dinner, University of Washington, Bothell, WA, November 2019.

"Mulling over Nanoemulsions: Interfacial Molecular Structure, Stabilization and Assembly", Brookhaven National Laboratory NSLS-II Colloquium, Brookhaven, NY August 2018.

"Understanding Complex Liquid Interfaces of Environmental Importance", Grand Challenges in the Chemical Sciences, The Israeli Academy of Sciences and Humanities, Jerusalem, Israel, June 2018.

"Priestley Medal Address: A Journey of Turning Points and Unlikely Destinations", 254th National American Chemical Society Meeting, New Orleans, LA, March 2018.

"Making the Rounds: Molecular Characterization of Surfactant Stabilized Nanoemulsion Surfaces",

Priestley Symposium, American Chemical Society National Meeting, New Orleans, LA, March 2018.

"Molecular Assembly at Complex Liquid Surfaces", Prins Distinguished Lectureship, Department of Chemistry, Syracuse University, February 2018.

"Mulling Over Emulsions: Molecular Assembly at Complex Liquid Surfaces", St. Olaf Distinguished Lectureship, Department of Chemistry, St. Olaf College, Minneapolis, MN, February 2018.

"Interfacial Molecular Structure and Adsorption at Oil-Water Interfaces", Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA, February 2018.

"Mulling Over Emulsions: Molecular Structure and Assembly at Nanoemulsion Surfaces", African Materials Research Society Meeting, Gaborone, Botswana, December 2017.

"Mulling Over Emulsions: Molecular Structure and Assembly at Nanoemulsion Surfaces", Department of Energy, 13th Annual CPIMS Meeting, Gaithersburg, MD, October 2017.

"Molecular Assembly at Nanoemulsion Surfaces", International Conference in Bio-Nano Innovation, Brisbane, Australia, September 2017.

"Molecular Structure and Bonding at Nanoemulsion and Planar Oil/Water Interfaces", American Chemical Society Meeting, San Francisco, CA, April 2017.

"Complex Aqueous Interfaces: Fundamental Discoveries, Opportunities and Challenges for the Energy-Water Nexus", Department of Energy, Basic Energy Sciences Workshop on the Water-Energy Nexus", Bethesda, MD, January 2017.

"The Magic and Mysteries of Water", Café Scientifique, Port Louis, Mauritius, December 2016.

"On the Water's Edge: Understanding Environmentally Important Processes at Aqueous Surfaces", University of Yangon, Yangon, Myanmar, August 2016.

"Molecular Insights into the Assembly of Nanosheets at Oil-Water Interfaces", Molecular Foundry Review, Lawrence Berkeley National Laboratory, June 2016.

"A Molecular Picture of Environmentally Important Processes at Water Surfaces", Hue University of Sciences, Hue City, Vietnam, December 2015.

"Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces", 2015 Ott Lectureship, Grand Valley State University, Allendale, MI, October 2015.

"Molecular Assembly at Oil Water Interfaces", Frontiers in Chemistry, Weizmann Institute, Rehovot, Israel, May 2015.

"Methylglyoxal at the Air/Water Interface". S. N. Wren and G.L. Richmond, 249th National ACS Meeting, Denver, CO, March 2015. (Given by S. Wren.)

"Molecular Characterization of Surfactant Adsorption at the Surface of Emulsion Particles", J. Hensel and G. L. Richmond, 249th National ACS Meeting, Denver, CO, March 2015. Given by J. Hensel

"Spectroscopic Studies of the Nanoemulsion Surfaces", J. Hensel and G.L. Richmond, Pittsburgh Spectroscopy Conference, New Orleans, LA, March 2015. Given by J. Hensel.

"Strengthening Research and Educational Partnerships with Scientists in Developing Countries: It's Good for Everyone", 248th National ACS Meeting, San Francisco, CA, Aug. 2014.

"Combining Experiment and Theory: Atmospheric Organics at the Air-Water Interface", 248th National ACS Meeting, San Francisco, CA, Aug. 2014. (given by Dr. Sumi Wren).

"Novel Peptoid Nanosheet Assembly at the Oil-Water Interface ", 248th National ACS meeting, San Francisco, CA, Aug 2014. (given by Dr. Clive Kittredge)

"Line 'Em All Up: Macromolecular and Nanoparticle Assembly at Oil/Water Interfaces", PittCon, Chicago, IL, March 2013.

"Molecular Insights into Surfactant, Nanoparticle, and Polymer Assembly at Planar and Spherical Oil/Water Interfaces", 247th National ACS Meeting, Dallas, TX, March 2014.

"Assembly at Complex Interfaces", 7th International Meeting of the Africa Materials Research Society, Addis Ababa, Ethiopia, December 2013.

"Line 'Em All Up: Macromolecular Assembly at Liquid Surfaces", Plenary Lecture, Royal Australian Chemical Institute Physical Chemistry Conference, Hobart, Tasmania, December 2013.

"Macromolecular Assembly at Liquid Surfaces", Symposium in Honor of Isiah Warner, 245th ACS National Meeting, New Orleans, LA, April 2013.

"Line 'Em All Up: Macromolecular Assembly at Liquid Surfaces", Award Symposium, American Physical Society Meeting, Baltimore, MD, March 2013.

"Molecular Processes at the Water's Edge", Dreyfus Foundation Teacher-Scholar Symposium on Research Frontiers in the Chemical Sciences", Camille and Henry Dreyfus Foundation, October 2012.

"Line "Em All Up: Surfactant, Polymer and Nanoparticle Adsorption at Liquid Surfaces", European Molecular Liquids Group/Japanese Molecular Liquids Group Meeting, Eger, Hungary, September 2012.

"Doorman, Barrier or Temptress: What Role does a Water Surface Play in Gaseous Adsorption", 243rd National ACS Meeting, Philadelphia, PA, August 2012.

"Molecular Processes Underlying the Structure and Assembly of Thin Films and Nanoparticles at Liquid Interfaces", Department of Energy, Materials Research Division Investigator Meeting, Annapolis, MD, July 2012.

"Particle and Nanoparticle Assembly at Liquid Surfaces", Korean Chemical Society Meeting, Seoul, Korea, April 2012.

"Nanoparticle Assembly at Oil/Water Interfaces", Joint China-U.S. Workshop for Women Researchers in Chemistry", Beijing, China, October 2011.

"Fundamental Studies of Materials Growth and Assembly at Fluid Interfaces", South Africa Council for Scientific and Industrial Research /U.S. Dept of State & Joint Services S&T Workshop, Pretoria, South Africa, September 2011.

"Chilling Out: Understanding the Adsorption and Uptake of Atmospheric Gases at Cold Aqueous Surfaces", 242nd ACS National Meeting, Denver, CO, August 2011.

"At the Water's Edge", 10th International Conference on the Structure of Surfaces (ICSOS), Hong Kong, August 2011.

"Oil-on-Water: Insights into the Fascinating Properties and Opportunities for Discovery at this Unique Interface", IUPAC International Congress on Analytical Sciences, Kyoto, Japan, May 2011.

"Oil on Water: Calming the Seas but Not the Science", Physical Chemistry Division Awards Symposium, 241st ACS National Meeting, Anaheim, CA, March 2011.

"Water at Hydrophobic Soft Surfaces: Molecular Structure, Bonding, Adsorption and Penetration", 241st ACS National Meeting, Anaheim, CA, March 2011.

"Oil on Water: Calming the Seas but Not the Science", Plenary Lecture, ICORS 2010, Boston, MA, August 2010.

"Going Nonlinear to Study Environmental Processes at Liquid Surfaces", Spectroscopy Society of Pittsburgh, Duquesne University, Pittsburgh, PA, November 2009.

"Molecular Behavior of Fluorocarbon Surfaces in Reactive Aqueous Environments", ASME/STLE International Joint Tribology Conference, Memphis, TN, October 2009.

"Understanding Structure and Dynamics of Surfactant Adsorption at Mineral/Water Interfaces", Pacific Northwest American Vacuum Society Meeting, Portland, OR, September 2009.

"Going Nonlinear to Study Environmental Processes at Liquid Surfaces", 2009 Beckman Scholars Symposium, Beckman Center, Irvine, CA, July 2009.

"At the Water's Edge: Understanding Environmentally Important Processes at Aqueous Surfaces", 237th National American Chemical Society Meeting, Salt Lake City, UT, March 2009.

"To Charge or Not to Charge: Ions at Aqueous Interfaces", FACSS 2008 Meeting, Reno, NV, October 2008.

"Spectroscopic Studies of Environmentally Important Processes at Aqueous Surfaces", FACSS 2008 Meeting, Reno, NV, October 2008.

"Taking Charge: The Role of Water in Mediating Ion Distribution at Water/Organic Interfaces", 236th National American Chemical Society Meeting, Philadelphia, PA, August 2008.

"Water at Hydrophobic Surfaces: Insights Gained from a Combined Experimental and Theoretical Approach", International Meeting on Aqueous Solutions and their Interfaces", Heraklion, Crete, June 2008.

"Going Nonlinear to Study Environmental Processes at Liquid Surfaces", Northwest Regional ACS Meeting, Park City, Utah, June 2008.

"Where Oil and Water Mix: Molecular Properties of the Interface between Aqueous Solutions and Hydrocarbon Solvents", 235th National American Chemical Society Meeting, Boston, MA, March 2008.

"The Magic and Mysteries of Water", Lewis and Clark College Science Without Limits Lecture Series, Portland, OR, March 2008.

"Going Nonlinear to Study the Structure and Dynamics of Molecular Assembly at Complex Interfaces", 2008 Bomem –Michelson Award Symposium, Pittsburgh Spectroscopy Conference, New Orleans, LA, March 2008.

"Wet Interfaces: Developing a Molecular Framework for Understanding the Behavior of Materials in Aqueous Solutions", Bio Molecular Materials Contractors' Meeting, Department of Energy, Warrenton, VA, November 2007.

"Going Nonlinear to Study Surfaces of Environmental Importance", Frontiers in Optics 2007/Laser Science XXIII Conference, San Jose, CA September 2007.

"The Surface of Nitric Acid Solutions: Insights Gained from a Combined Experimental and Computational Approach", 234th National American Chemical Society Meeting, Boston, MA, August 2007.

"How Nitric Acid Adsorption at an Aqueous Surface Alters its Acidity", Dynamics at Surfaces Gordon Research Conference, Andover, NH, August 2007.

"Surface Nonlinear Spectroscopy and Molecular Dynamics Simulations to Understand Molecular Structure and Bonding at a Series of Liquid-Liquid Interfaces", International Conference on Solution Chemistry, Perth, Australia, July 2007.

"The Magic and Mysteries of Water", Oregon Museum of Science and Technology Pub Talk Series, Portland, OR, May 2007.

"Combining Surface Nonlinear Spectroscopy and Molecular Dynamics Simulations to Understand Molecular Structure and Bonding at a Series of Liquid-Liquid Interfaces", 233rd National American Chemical Society Meeting, Chicago, IL, March 2007.

"Molecular Adsorption, Ion Solvation and Hydrogen Bonding at Aqueous Surfaces," Conference on Liquid Systems Under Extreme Conditions, Environmental Molecular Liquids Group, Barcelona, Spain, September 2006.

"The Surface of Aqueous Solutions: A Combined Experimental and Theoretical Approach", 232nd National American Chemical Society Meeting, San Francisco, CA, September 2006.

"Understanding the Surface Composition and Structure of Nitric Acid Solutions", 232nd National American Chemical Society Meeting, San Francisco, CA, September 2006.

"Molecular Structure and Bonding at Organic/Water Interfaces", 232nd National American Chemical Society Meeting, San Francisco, CA, September 2006.

"Acids at Aqueous Interfaces and their Effect on Adsorption", Telluride Workshop on Molecular Aspects of Solvation in Hydrogen Bonded Systems", Telluride, CO, August 2006.

"Going Nonlinear in Studying Water Surfaces", Partners in Science Program, Murdock Foundation, Vancouver, WA, August 2006. "Understanding Molecular Interactions at Fluid Interfaces", Pittsburgh Spectroscopy Conference, Orlando, FL, March, 2006.

"Franklin and the Future: From Franklin's Oil Drop Experiment to Self-Assembled Monolayer Structures", American Vacuum Society Meeting, San Francisco, CA, November 2006.

"Recent Advances in Measuring Molecular Structure and Adsorption at Liquid Surfaces with Vibrational Sum Frequency Spectroscopy", Federation of Analytical Chemistry and Spectroscopy Societies, Quebec City, Canada, October 2005.

"Applications of Vibrational Sum Frequency Spectroscopy to the Study of Environmentally Important Processes at Liquid Surfaces", 230th National American Chemical Society Meeting, Washington, DC, August 2005.

"Ions in Complex Physical, Chemical and Biological Systems", 230th National American Chemical Society Meeting, Washington, DC, August 2005.

"Understanding Molecular Structure and Bonding at Monolayer Surfaces Adsorbed at Solid and Liquid Surfaces", 230th National American Chemical Society Meeting, Washington, DC, August 2005.

"Going Nonlinear in Probing Adsorption at Aqueous Surfaces of Environmental Importance", (given by M. Kido) American Physical Society Meeting, Los Angeles, CA, March 2005.

"Understanding the Structure and Bonding of Water at Aqueous Surfaces and Interfaces", 229th National American Chemical Society Meeting, San Diego, CA, March 2005.

"Going Nonlinear in Understanding Aqueous Surfaces", 229th National American Chemical Society Meeting, San Diego, CA, March 2005.

"Advances in Molecular Characterization of Liquid/Liquid Interfaces", Faraday Discussion. The Dynamics and Structure of the Liquid-Liquid Interface, Cambridge University, Cambridge, UK, September 2004. (Spiers Lecturer).

"Water Structure and Bonding at Hydrophobic Surfaces", Symposium on Aqueous Surfaces, 228th National American Chemical Society Meeting, Philadelphia, PA, August 2004.

"Nonlinear Optical Studies of Aqueous Interfaces", Water and Aqueous Solutions Gordon Research Conference, Holderness School, Holderness, NH, August 2004.

"Understanding Molecular Bonding and Adsorption at Liquid Interfaces", Chemistry at Interfaces Gordon Research Conference, Kimball Academy, New Hampshire, August 2004.

"Molecular Structure and Orientation at Liquid/Liquid Interfaces" 37th Heyrovsky Discussion Meeting, Trest, Czech Republic, June 2004.

"Advancing our Understanding of Interfacial Structure with VSFS", Vibrational Spectroscopy Gordon Research Conference, Bristol, RI, July 2004.

"Going Nonlinear in Probing Surfaces with Vibrational Spectroscopy", 227th National American Chemical Society Meeting, March 2004.

"Probing Adsorption and Molecular Structure at Aqueous Interfaces with Vibrational Sum Frequency Spectroscopy", 227th National American Chemical Society Meeting, March 2004.

"Hydrogen Bonding at Water Surfaces", German Chemical Society Meeting, Munich, Germany, October 2003.

"Water Structure and Bonding at Hydrophobic Liquid Surfaces, Deutsche Bunsen Discussion Meeting on Interfacial Water in Chemistry and Biology, Schloss Velen, Germany, Sept. 2003.

"Molecular Interactions at Aqueous Surfaces", Electronic Spectroscopy and Dynamics Gordon Research Conference, Bates College, ME, July 2003.

"Understanding Molecular Interactions at Liquid Surfaces: Spectroscopy and Simulation," 225th National American Chemical Society Meeting, New Orleans, LA, March 2003.

"Adsorption at the CaF₂/H₂O Interface by Vibrational Sum Frequency Spectroscopy", 225th National American Chemical Society Meeting, New Orleans, LA, March 2003.

"Vibrational Spectroscopy of Liquid Surfaces: Going Nonlinear", 224th National American Chemical Society Meeting, Boston, MA, August 2002.

"Water-Surfactant Interactions at Liquid Surfaces Structure and Hydrogen Bonding of Water at Hydrophobic Liquid Surfaces", 224th National American Chemical Society Meeting, Boston, MA, August 2002.

"Structure and Hydrogen Bonding of Water at Hydrophobic Liquid Surfaces", 224th National American Chemical Society Meeting, Boston, MA, August 2002.

"Understanding Molecular Structure at Liquid Surfaces", Pittsburgh Spectroscopy Conference, New Orleans, LA, March 2002.

"Water Surfaces; New Insights and Discoveries", Dynamics at Surfaces, Gordon Research Conference, Andover, NH, August 2001.

"Structure and Hydrogen bonding of Water at Liquid Surfaces", Gordon Research Conference on Chemical Reactions at Surfaces", Ventura, CA, February 2001.

"Hydrogen Bonding at Water Surfaces: Some Surprisingly Weak Interactions", Gordon Research

Conference on Electrochemistry, Ventura, CA, January 2001.

"Structure and Hydrogen Bonding of Water at Surfaces: Some New Insights and Surprises", 220th National American Chemical Society Meeting, Washington, DC, August 2000.

"Surprising Discoveries of How Water Hydrogen Bonds and Orients at Hydrophobic Surfaces", Gordon Research Conference on Water and Aqueous Solutions, Holderness, NH, August 2000.

"Structure and Hydrogen Bonding of Water at Hydrophobic Surfaces", Spring National American Physical Society Meeting, Minneapolis, MN, March 2000.

"Adsorption and Monolayer Formation at Liquid Surfaces by Vibrational Sum Frequency Spectroscopy", 219th American Chemical Society Meeting, San Francisco, CA, March 2000.

"Vibrational Sum Frequency Spectroscopy of Aqueous Surfaces: H-Bonding and Solvation", Western Spectroscopy Association, Asilomar, CA, January 2000.

"Molecular Structure and Bonding at Liquid Surfaces as Probed by VSFS" 26th Annual Conference of Analytical Chemistry and Spectroscopy Societies, Vancouver, Canada, October 1999.

"Hydrogen Bonding of Water Molecules at Liquid Surfaces as Probed by Vibrational Sum Frequency Spectroscopy", Gordon Research Conference on Liquids, Holderness, NH, August 1999.

"Molecular Structure and Adsorption at Liquid Interfaces", 217th American Chemical Society Meeting, Anaheim, CA, March 1999.

"Molecular Structure and Adsorption Dynamics at Liquid Surfaces and Interfaces", Canadian Society for Chemistry Conference, June 1998.

"Studies of Molecular Adsorption at Liquid Surfaces and Interfaces by VSFS", 23rd Annual Informal Conference on Photochemistry, Pasadena, CA, May 1998.

"Molecular Structure and Adsorption Dynamics of Phospholipids at Liquid/Liquid Interfaces", Electrochemical Society Meeting, San Diego, CA, May 1998.

"Molecular Structure and Hydrogen Bonding of Water Molecules at Liquid Surfaces and Interfaces", Pittsburgh Spectroscopy Conference, New Orleans, LA, March 1998.

"Vibrational Spectroscopy of Liquid Surfaces and Interfaces", Federation of Analytical Chemistry and Spectroscopy Societies 24th Annual Meeting, Providence, RI, October 1997.

"Molecular Structure and Bonding at Liquid/Liquid Interfaces", 214th American Chemical Society Meeting, Las Vegas, NV, September 1997.

"Vibrational Spectroscopy of Molecules at Liquid Surfaces and Interfaces", 214th American Chemical Society Meeting, Las Vegas, NV, September 1997.

"Spectroscopy of Molecules at Liquid/Liquid and Liquid/Air Interfaces", Chemistry at Interfaces Gordon Research Conference, New Hampshire, July 1996.

"Spectroscopic Studies of Surfactants at Liquid Surfaces and Interfaces", Photons and Chemistry Symposium, Estes Park, CO, April 1996.

"Molecular Structure and Ordering at Oil/Water Interfaces", American Physical Society Meeting, St. Louis, MO, March 1996.

"Photocorrosion and Passivation of n-GaAs: A Comparison of the (100), (110) and (111)B Faces", E.A. Miller and G.L. Richmond, 211th National American Chemical Society Meeting, New Orleans, LA, March 1996.

"Molecular and Ionic Interactions at Liquid/Liquid Interfaces", 211th National American Chemical Society Meeting, New Orleans, LA, March 1996.

"Vibrational Spectroscopy of Surfactants at Oil/Water Interfaces", 210th American Chemical Society Meeting, Chicago, Ill, August 1995.

"Molecular and Ionic Interactions at the Oil/Water Interface as Measured by Surface Second Harmonic Generation and Sum-Frequency Generation", Electrochemical Society Meeting, Reno, Nevada, May 1995.

"Dynamics of Photo induced Processes at the n-GaAs/Electrolyte Interface", NSF Japan - US Conference of Semiconductor Surfaces, San Diego, CA, April 1995.

"Nonlinear Optical Studies of Oil/Water Interfaces", Western Spectroscopy Association Conference, Asilomar, CA, February 1995.

"Nonlinear Optical Studies of Liquid/Liquid Interfaces", Electrochemistry Gordon Research Conference, Ventura, CA, January 1995.

"Sum Frequency Generation of Surfactants at Oil/Water Interfaces", SPIE Meeting, San Diego, CA, July 1995.

"Nonlinear Optical Studies of Surfaces and Interfaces", Surface Studies by Nonlinear Optical Spectroscopies, Kassel, Germany, May 1994.

"Second Harmonic Generation Studies of Liquid Interfaces", 27th Heyrovsky Discussions, Trest, Czech Republic, June 1994.

"Nonlinear Optical Studies of Surfaces and Interfaces", American Vacuum Society Meeting, Seattle, WA, November 1993.

"Electrode/Electrolyte Interactions as Probed by Nonlinear Optical Methods", 206th National American Chemical Society, Chicago, Ill, August 1993.

"Picosecond Studies of Photoinduced Processes at N-GaAs/Electrolyte Interfaces", International Laser Science/Optical Science Association Meeting, Toronto, October 1993.

"Surface Science Under Water: Probing the GaAs/Electrolyte Interface", Gordon Research Conference on Analytical Chemistry, August 1993.

"Surface Science Under Water", Iota Sigma Pi Convention, Cleveland, OH, June 1993.

"Surface Science Under Water", Department of Education Fellowship Workshop, University of Southern California, February 1993.

"What Can SHG Tell Us About Surface Atomic and Electronic Structure of Metal Electrode Surfaces", Deutsche Bunsengesellschaft fur Physikalische Chemie, Mainz, Germany, Oct. 1992.

"Wavelength Dependent Studies of Noble Metal Surfaces by SHG", 204th National American Chemical Society Meeting, Washington, DC, Aug. 1992.

"Comparison of Surface Properties in Solution and in UHV by Second Harmonic Generation", 18th Annual FACSS Meeting, Anaheim, CA, October 1991.

"What Can SHG Tell Us About Surface Atomic and Electronic Structure of Metal Surfaces", 178th National Meeting of the Electrochemical Society, Phoenix, AZ, October, 1991.

"Lasers in Chemistry", NSTA National Meeting, Shell Lecture, Houston, TX, March 1991.

"Surface Science Under Water", Gordon Research Conference on Electrochemistry, January 1991, Ventura, CA.

"What Can SHG Tell Us About the Electrochemical Double Layer?", 17th Annual FACSS Meeting, Cleveland, OH, October 1990.

"Linear and Nonlinear Laser Interactions and Molecular Dynamics", USSR-USA Joint Workshop on Laser Spectroscopy, Moscow - Leningrad, USSR, June 1990.

"Nonlinear Optics as a Probe of Buried Interfaces", Gordon Research Conference on High Temperature Chemistry, August 1990.

"Comparison of SHG from Metals in Solution and UHV", SPIE Meeting, Los Angeles, CA, January 1990.(given by R. Georgiadis)

"Probing Interfacial Structure and Dynamics by SHG", LASST-ACSIS Workshop on Interfacial Phenomena, Campabello Island, New Brunswick, Canada, August 1989.

"Optical Second Harmonic Generation as a Probe of Dynamics In Situ", 198th National ACS Meeting, Miami, FL, Sept. 1989.(Given by J. Robinson)

"Second Harmonic Generation and the Solid/Liquid Interface", Frontiers of Molecular Spectroscopy and Dynamics Workshop, Princeton, NJ, June 1989

"Second Harmonic Generation and the Single Crystal Electrode Surface", 42nd Annual Summer Symposium on Analytical Chemistry, Blacksburg, VA, July 1989.

"Surface Second Harmonic Generation: What Have We Learned?", Columbus Spectroscopy Conference, Columbus, OH, June 1989.

"Recent Advances in the Use of Second Harmonic Generation to Monitor Thin Film Electrodeposition", 175th National Meeting of the Electrochemical Society, Los Angeles, CA, May 1989.

"Examining the Structure and Dynamics of Thin Film Deposition by SHG", Pittsburgh Conference, Atlanta, GA, March 1989.

"Second Harmonic Generation as a Probe of Solid\Liquid Interfacial Processes", 197th National ACS Meeting, Dallas, Texas, April 1989.

"Probing the Structure and Dynamics of Thin Film Growth by Nonlinear Optical Methods", 197th National ACS Meeting, Dallas, Texas, April 1989.

"Nonlinear Optics as a Probe of the Solid/Liquid Interface", Bunsen-Kolloquim, Heidelberg, West Germany, April 1989.

"The Structure and Dynamics of Thin Film Deposition on Crystalline Metal Electrode Surfaces by Optical Second Harmonic Generation", 1989 Materials Research Society Meeting, San Diego, CA, April 1989.

"Nonlinear Optical Probes of Electrochemical Interfaces", International Meeting on the Chemistry and Physics of Electrified Interfaces, Bologna, Italy, August 1988.

"Second Harmonic Generation as Probe of Interfacial Structure and Dynamics at the Solid/Liquid Interface", ILS-IV Conference, Atlanta, GA, October 1988.

"What Can SHG Tell Us About the Structure of the Solid/Liquid Interface?" Gordon Research Conference on Vibrational Spectroscopy, Wolfeboro, NH, Aug. 1988.

"Nonlinear Optics as a Probe of Interfacial Structure and Dynamics at Buried Interfaces", 195th National ACS Meeting/Joint 3rd North American Chemical Congress, Toronto, Canada, June 1988.

"Measurements of the Structure and Dynamics of Film Growth on Metal Electrode Surfaces by Second Harmonic Generation", 41st Annual Summer Symposium on Analytical Chemistry, Stanford University June 1988.

"SHG as an In-Situ Probe of Surface Structure During Thin Film Deposition", 173rd Meeting of the Electrochemical Society, Atlanta, GA, May 1988.

"Electrochemical Studies Using Second Harmonic Generation", 14th Annual FACSS Meeting, Detroit, MI September 1987.

"Interactions at the Solid-Liquid Interface as Measured by Second Harmonic Generation", Gordon Research Conference on The Physics and Chemistry of Liquids, Plymouth, NH, August 1987.

"Probing the Solid-Liquid Interface with Nonlinear Optics" Gordon Research Conference on Analytical Chemistry, New Hampton School, NH, August 1987.

"Probing Interfacial Structure and Dynamics Using Second Harmonic Generation", 194th National ACS Meeting, New Orleans, August, 1987.

"In-Situ Characterization of Interfacial Phenomena", Chemically Modified Surfaces Symposium, Ft. Collins, CO, June 1987.

"In-Situ Characterization of Solid/Liquid Interfaces by Optical Second Harmonic Generation", Electrochemical Society Meeting, Philadelphia, PA May 1987.

"Nonlinear Optical Studies of Electrochemical Interfaces", 13th Annual FACSS Meeting, St. Louis, MO September 1986.

"Nonlinear Optics: A Probe of Interfacial Structure and Dynamics", Joint DEAP/DCP Meeting of the APS, Eugene, OR, June 1986.

"Nonlinear Optics as Probe of Electrochemical Interfaces", National Research Council, Denver CO, October 1985.

"Optical Studies of Electrochemical Surfaces by Second Harmonic Generation and Photoacoustic Spectroscopy", 190th National ACS Meeting, Miami, FL, May 1985.

"Optical Studies of Electrochemical Interfaces", Materials Science Symposium, Corvallis, OR, March 1985.

"Laser Spectroscopic Studies of Molecular Adsorption at Electrochemical Interfaces", Western Spectroscopy Conference, Asilomar CA, January 1985.

Research Seminars and Colloquia have also been given at:

University of Michigan, Department of Chemical Engineering, (virtual), October 2020.

Pomona College, Department of Chemistry, Claremont, CA, February 2020.

Carnegie Mellon University, Pittsburgh, PA, February 2020.

College of Wooster, Department of Chemistry, Wooster, OH, February 2020.

Indiana University-Purdue University Indianapolis, Department of Chemistry, Indianapolis, IN, November 2019

Emory University, Department of Chemistry, Atlanta, GA, October 2019.

Michigan State University, Department of Chemistry, Lansing, MI, October 2019
Virginia Polytechnic Institute and State University, Department of Chemistry, Blacksburg, VA, October 2019
Northwestern University, Department of Chemistry, Evanston, IL, August 2019
University of Illinois Urbana-Champaign, Department of Chemistry, Urbana-Champaign, IL, May 2019
University of Georgia, Department of Chemistry, Athens, GA, April 2019
College of William and Mary, Department of Chemistry, Williamsburg, VA, April 2019
Scripps College, Keck Center, Claremont, CA, March 2019
Louisiana State University, College of Science, Baton Rouge, LA, February 2019.
Brigham Young University, Department of Chemistry, Provo, UT, February 2019.
Baylor University, Baylor University, Waco, TX, February 2019.
University of Alberta, Edmonton, Canada, January 2019.
National Chemistry Laboratory, Pune, India, January 2019.
University of Mumbai, Department of Chemistry, Mumbai, India, January 2019.
University of Washington, Linus Pauling Medal Award Address, University of Washington, Bothell, November 2018.
Appalachian State University, Morgan Science Lecturer, Boone, North Carolina, October 2018.
University of Louisville, Department of Chemistry, Louisville, KY, May 2018.
University of Puget Sound, Department of Chemistry, Tacoma, WA, April 2018
University of Syracuse University, Department of Chemistry, February 2018.
St. Olaf College, Northfield, MN, February 2018.
University of Chicago, Institute for Molecular Engineering, Chicago, IL, May 2017
Iona College, Department of Chemistry, April 2017
National Institutes of Standards and Technology, April 2017
University of North Carolina, Department of Chemistry, October 2016
Kalamazoo College, Department of Chemistry, Kalamazoo, MI, May 2016.
SUNY Buffalo, Department of Chemistry, Buffalo, NY, April 2016.
Notre Dame University, Department of Chemistry, Notre Dame, IN, February 2016.
Grand Valley State University, Department of Chemistry, Allendale, MI, October 2015.
The Pennsylvania State University, State College, Pennsylvania, April 2015
Rice University, Department of Chemistry, Houston, TX, February 2015
University of Victoria, Department of Chemistry, Victoria, Canada, January 2015
Simon Fraser University, Department of Chemistry, Vancouver, Canada, January 2015
University of British Columbia, Department of Chemistry, Vancouver, Canada, January 2015
Dominican University, Department of Chemistry, San Rafael California, May 2014
University of California, Davis, Department of Chemistry, April 2014

South Dakota State University, Department of Chemistry and Campus-wide, Brookings, SD, April 2014.
University of Pittsburgh, Department of Chemistry, Pittsburgh, PA, November 2013
Argonne Director's Special Colloquium, Argonne National Laboratory, May 2013
University of Kansas, Department of Chemistry, Lawrence, KS, March 2013
Montana State University, Department of Chemistry, Bozeman, MT, March 2013
Arizona State University, Department of Chemistry, Tempe, AZ, February 2013 (2 lectures)
Ewha University, Department of Chemistry, Seoul, Korea, April 2012
Ohio State University, Department of Chemistry, Columbus, OH, April 2012
University of Arizona, Department of Chemistry, Tucson AZ, February 2012
University of Nebraska, Department of Chemistry, Lincoln, NE, January 2012 (3 lectures)
University of Pennsylvania, Department of Chemistry, Philadelphia, PA, November 2011 (3 lectures)
Purdue University, Department of Chemistry, West Lafayette, IN, April 2011
University of California, San Diego, Department of Chemistry, San Diego, CA, April 2011
Skidmore College, Department of Chemistry, Saratoga Springs, NY, March 2011
Grinnell College, Department of Chemistry, Grinnell IA, September 2010 (2 lectures)
Carleton College, Department of Chemistry, Northfield, MN, April 2010
Iowa State University, Department of Chemistry, Ames, IA, April 2010 (2 lectures)
University of Alberta, Department of Chemistry, Alberta, Canada, March 2010 (3 lectures)
Hope College, Department of Chemistry, Holland, MI, January 2010
University of Kansas, Department of Chemistry, Lawrence, KS, November 2009
University of Indiana, Department of Chemistry, Bloomington, IN, September 2009.
The Pennsylvania State University, Department of Chemistry, State College, PA, April 2009
West Virginia University, Department of Chemistry, March 2009
Virginia Tech, Department of Chemistry, Blacksburg, VA, February 2009
California Institute of Technology, Department of Chemistry, Pasadena, CA, February 2009
Northwestern University, Department of Chemistry, Evanston, IL, September 2008
Pacific University, Department of Chemistry, Forest Grove, OR, October 2008
California State University, Los Angeles, Dept. of Chemistry, LA, CA, October 2008
California State University, San Luis Obispo, Dept. of Chemistry, San Luis Obispo, CA, October 2008
University of California, Berkeley, Department of Chemistry, Berkeley, CA, March 2008.
Rohm and Haas Company, Spring House, PA, March 2008
Lewis and Clark College, Department of Chemistry, Portland, OR, March 2008
College of St. Catherine, Department of Chemistry, St. Paul, MN, March 2008
Washington State University, Departments of Chemistry & Physics, Pullman, WA, January 2008
University of Denver, Department of Chemistry, Denver, CO, October 2007
University of Northern Iowa, Department of Chemistry, Cedar Falls, IA, October 2007

University of Delaware, Department of Chemistry, Newark, DE, September 2007
Texas A&M University, Department of Chemistry, Kingsville, Texas, April 2007
University of Illinois, Chicago, Chicago, IL, March 2007
Stanford University, Department of Chemistry, Palo Alto, CA, February 2007
George Fox University, Department of Chemistry, December 2006
Linfield College, Department of Chemistry, McMinnville, OR, November 2006
University of Colorado, Department of Chemistry, Boulder, CO, November 2006
Seattle University, Department of Chemistry, Seattle, WA, November 2006
Whitman College, Department of Physics, Walla Walla, Washington, March 2006
Cornell College, Department of Chemistry, Mt. Vernon, Iowa, February 2006
Georgia Institute of Technology, Department of Chemistry, Atlanta, GA, October 2005
L'Ecole Polytechnique Fédérale de Lausanne (EPFL), Institute of Chemical Sciences and Engineering, Switzerland, April 2005
University of Berne, Department of Chemistry and Biochemistry, Berne, Switzerland, April 2005
University of Neuchâtel, Institute of Chemistry, Neuchâtel, Switzerland, April 2005
University of Geneva, Department of Chemical Physics, Geneva, Switzerland, April 2005
University of Wisconsin, Department of Chemistry, November 2004
Harvard University, (Joint Harvard-MIT colloquium), Department of Chemistry, Cambridge, MA, March 2004
Columbia University, Department of Chemistry, Cambridge, MA, March 2004
Western Washington University, Department of Chemistry, Bellingham, WA, January 2004
University of Illinois, Department of Chemistry, Urbana, IL, May 2003
Joint Institute for Laboratory Astrophysics (JILA), University of Colorado, Boulder, CO, May 2003
University of Minnesota, Department of Chemistry, Minneapolis, MN, April 2003
North Carolina State University, Department of Chemistry, Asheville, NC, November, 2002
Oregon State University, Department of Chemistry, Corvallis, OR, November 2002
University of Pennsylvania, Department of Chemistry, Philadelphia, PA, April 2002
Marquette University, Department of Chemistry, Milwaukee, WI, February 2002
Yale University, Department of Chemistry, New Haven, Conn., January 2002
University of Chicago, Department of Chemistry, Chicago, IL, January 2002
Director's Lectureship, Pacific Northwest National Laboratory, January 2002
University of Washington, Department of Chemistry, Seattle, WA, May 2001
Stanford University, Department of Chemistry, Palo Alto CA, April 2001
University of British Columbia, Department of Chemistry, Vancouver, BC, March 2001
Naval Research Laboratory Colloquium Series, Arlington, VA, February 2001
Carleton College, Department of Chemistry, Northfield, MN, November 2000

University of Maryland, Chemical Physics Program, College Park, MD, October 2000
University of Idaho, Department of Chemistry, Boise, ID, September 2000
Cornell University, Department of Chemistry, Ithaca, NY, April 2000
Univ. of Wisconsin, Oshkosh, Department of Chemistry, WI, April 2000
Texas A&M Univ., Department of Chemistry, College Station, TX, Feb. 2000
University of Pittsburgh, Department of Chemistry, Pittsburgh, PA, February 2000
Duquesne University, Department of Chemistry, Pittsburgh, PA, February 2000
Portland State University, Department of Chemistry, Portland, OR, January 2000
California State San Luis Obispo, Department of Chemistry, December 1999
McGill University, Department of Chemistry, Montreal, Canada, November 1999
Pennsylvania State University, Department of Chemistry, State College, PA, April 1999
Cal State University, Department of Chemistry, Fresno, March 1999
Central Washington University, Department of Chemistry, Ellensburg, WA, February 1999
University of Delaware, Department of Chemistry, Newark, DE, February 1999
Gonzaga College, Spokane, Department of Chemistry, WA, February 1999
Western Washington University, Department of Chemistry, Bellevue, WA, October 1998.
Willamette University, Department of Chemistry, Salem, OR, November 1998.
Western Washington University, Department of Chemistry, Bellevue, WA, October 1998.
Los Alamos National Laboratory, Los Alamos, NM, May 1998
University of California, Irvine, Department of Chemistry, April 1998
University of Indiana, Department of Chemistry, Bloomington, IN, March 1998
University of Tennessee, Department of Chemistry, Knoxville, TN, February 1998
University of Utah, Department of Chemistry, Salt Lake City, UT, February 1998.
Mount Holyoke College, Department of Chemistry, November 1997.
Naval Research Laboratory, Washington, DC, April 1997
National Institute of Standards and Technology, Gaithersburg, MD, April 1997.
Furman University, Department of Chemistry, Greenville, SC, April 1997.
Pomona College, Department of Chemistry, Claremont, CA, March 1997.
Kansas State University, Department of Chemistry, Manhattan, KS, February 1997.
Carroll College, Department of Chemistry, WI, February 1997.
University of Minnesota, Department of Chemistry, Minneapolis, MN, December 1996.
University of North Dakota, Department of Chemistry, Fargo, ND, December 1996.
University of Missouri, Department of Chemistry, Columbia, MO, November 1996.
Reed College, Department of Chemistry, Portland, OR, November 1996.
SUNY Buffalo, Graduate Symposium, Buffalo, NY, May 1996.
Olin Chemical, Cheshire, Conn., May 1996.

University of California, Department of Chemistry, Los Angeles, CA, April 1996.
Princeton University, Department of Chemistry, Princeton, NJ, April 1996.
Michigan State University, Department of Chemistry, February 1996.
University of Michigan, Department of Chemistry, Ann Arbor, MI, February 1996.
University of California, Berkeley, Department of Chemistry, Berkeley, CA, October 1995.
University of Colorado, Department of Chemistry, Boulder, CO, November 1995.
Haverford College, Department of Chemistry, Haverford, PA, February 1995.
University of California, Department of Chemistry, Santa Cruz, CA, June 1995.
Purdue University, Department of Chemistry, West Lafayette, IN, March 1995.
Lewis and Clark College, Department of Chemistry, Portland, OR, April 1994.
University of British Columbia, Department of Chemistry, Vancouver, BC, November 1994.
University of Arizona, Department of Chemistry, Tucson, AZ, June 1994.
California Institute of Technology, Department of Chemistry, Pasadena, CA, November 1993.
Washington State University, Department of Physics, Pullman, WA, February 1993.
Pomona College, Department of Chemistry, Pomona, CA, February 1991.
University of Arizona, Department of Chemistry, Tucson, AZ, April 1991.
University of Utah, Department of Chemistry, Salt Lake City, UT, April 1991.
University of Toronto, Department of Physics, Toronto, Canada, April 1991.
Oberlin College, Department of Chemistry, Oberlin, OH, April 1991.
IBM Almaden Research Laboratories, San Jose, CA, May 1991.
Oakridge National Laboratory, Division of Analytical Chemistry, Oak Ridge, TN, October 1990.
University of Chicago, Department of Chemistry, Chicago, IL, November 1990.
Oregon Graduate Institute, Department of Chemistry, Portland, OR, October 1990.
Iowa State University, Department of Chemistry, Ames, IA, February 1990.
Cornell University, Department of Chemistry, Ithaca, NY, March 1990.
University of Wisconsin, Department of Chemistry, Madison, WI, April 1990.
University of Heidelberg, Department of Chemistry, Heidelberg, GDR, April 1989
Fritz-Haber Institute, Physical Chemistry Division, Berlin GDR, April 1989.
University of Pittsburgh, Department of Chemistry, Pittsburgh, PA, February 1989.
University of Akron, Department of Chemistry, Akron, OH, February 1989.
University of California, Department of Chemistry, Berkeley, CA, April 1988.
University of Texas, Department of Chemistry, Austin, TX, March 1988.
AT & T Bell Laboratories, Murray Hill, NJ, April 1988.
Exxon Laboratories, Clinton, NJ, April 1988.
University of Rochester, Department of Chemistry, Rochester, NY, October 1988.
Fort Lewis College, Department of Chemistry, Durango, CO, November 1988.

Reed College, Department of Chemistry, Portland, OR, November 1988.
Polaroid Corporation, Boston, MA, November 1988.
University of California, Department of Chemistry, Davis, CA, November 1988.
University of California, Department of Chemistry, Irvine, CA, 1988.
Oregon State University, Department of Chemistry, Corvallis, OR, 1988.
DuPont de Nemours, Central Research Laboratories, Wilmington, DE, 1988.
University of Cincinnati, Department of Chemistry, Cincinnati, OH, October 1987
National Bureau of Standards, Chemistry Division, Gaithersburg, MD, October 1987.
Harvard University, Department of Chemistry, Cambridge, MA, November 1987.
University of California, Department of Chemistry, Riverside, CA, June 1987.
Brigham Young University, Department of Chemistry, Provo, UT, February 1987.
IBM Almaden Research Laboratories, San Jose, CA, March 1987.
Stanford Research Institute, Department of Chemistry, Palo Alto, CA, March 1987.
Standard Oil Research Laboratories, Cleveland, OH, April 1987.
University of Virginia , Department of Chemistry, Richmond, VA, April 1987.
Portland State University, Department of Chemistry, Portland, OR, May 1987.
Dow Chemical Company, Midland, MI, October 1986.
University of Illinois, Department of Chemistry, Urbana, November IL, 1986
University of Washington, Department of Chemistry, Seattle, WA, December 1986.
Polaroid Corporation, Cambridge, MA, March 1986.
University of Nevada, Department of Chemistry, Reno, NV, March 1986.
University of California, Department of Chemistry, Santa Cruz, CA, May 1986.
Oregon State University, Department of Chemistry, Corvallis, OR, March 1986.
E. I. DuPont de Nemours, Central Research, Wilmington, DE, December 1985.
Duke University, Department of Chemistry, Raleigh, NC, October 1985.
Argonne National Laboratories, Chemistry Division, Argonne, IL, December 1985.
Allied Corporation, Murray Hill NJ, April 1985.
Kansas State University, Department of Chemistry, Manhattan, KS, December 1985.
A T & T Bell Laboratories, Murray Hill, NJ, February 1985.
University of California, Department of Chemistry, Los Angeles, February 1985.
Texas A & M University, Department of Chemistry, College Station, TX, March 1985.
University of Pennsylvania, Department of Chemistry, Philadelphia, PA, November 1985.
University of Oregon, Department of Chemistry, Eugene, OR, January 1985.
Naval Research Laboratory, Arlington, VA, July 1984.
Exxon Research Center, Clinton, NJ, June 1984.
The Pennsylvania State University, Department of Chemistry, November 1984.

Purdue University, Department of Chemistry, November 1984.

University of California, Los Angeles, December 1984.

Temple University, Department of Chemistry, April 1983.

University of Delaware, Department of Chemistry, Wilmington, DE, March 1983

WORKFORCE DEVELOPMENT ACTIVITIES

Founder and Chair of COACH

COACH is a grass-roots organization formed to assist women scientists and engineers in achieving success in their research and leadership in the scientific enterprise. As Founder and Chair of COACH, Richmond has led the organization since 1997 and has been integrally involved in the design and implementation of its many programs including research to understand the issues that women face in pursuing science and engineering careers. The most visible programs are the professional skills and leadership workshops (see list below) for scientists and engineers. Initially developed for women faculty, they have since grown to include workshops for male, female and minority graduate students, postdocs, faculty and administrators. Over 26,000 scientists and engineers have participated in these workshops at over 60 colleges and universities, and at professional meetings including the American Chemical Society (ACS), American Physical Society (APS), the Society for Industrial and Applied Mathematics (SIAM), National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE), Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), American Indian Science and Engineering Society (AISES), American Geophysical Union (AGU), International Combustion Institute Meeting, the Environmental Mutagen Society (EMS), the American Society for Microbiology (ASM) and Council on Chemical Research (CCR). For a full description, see <http://coach.uoregon.edu>.

Since 2012 the COACH activities have expanded internationally with a particularly focus on working with scientists in developing countries and countries with emerging scientific enterprises. Countries where Richmond has given COACH talks, career development workshops and research collaborative workshops have been held include Cameroon, Gabon, Algeria, Tunisia, Morocco, Rwanda, Ghana, Kenya, Ethiopia, Tanzania, Mozambique, Namibia, Madagascar, Mauritius, South Korea, Vietnam, Thailand, Indonesia, Oman, Chile, Argentina, Jamaica, India, Sri Lanka, China and Japan. Workshop titles for many of the professional skills building workshops held domestically and internationally are given below.

COACH Professional Skills Workshops Developed for Scientists and Engineers

Basic Workshops for Women Faculty in Science and Engineering

- "Effective Communication and Negotiation Techniques for the Technical Workplace"
- "Women as Leaders in the Scientific Enterprise"
- "Career Launch and Acceleration for Graduate Students and Postdocs"
- "Developing a Balanced Career Portfolio"
- "Selling Your Science: The Art of Effective Proposal Writing"
- "Publishing Research Results in Peer Reviewed Journals"

"Persuasive Scientific Presentations"

"Mentoring for Success in Science and Technology"

TALKS AND WORKSHOPS ON EDUCATION, CAREER BUILDING AND SCIENCE POLICY RELATED TOPICS

Domestic

"Summit on Diversity and Inclusion for Technical Leaders in the DOE Laboratories", O'Hare Hilton Airport Hotel, Chicago, IL, Oct. 2019.

"Summit on Diversity and Inclusion for Technical Leaders in the DOE Laboratories", O'Hare Hilton Airport Hotel, Chicago, IL, Oct. 2018.

"Summit for Women Scientists and Engineers in the DOE Laboratories", Argonne National Laboratory, October 2015. Funded by DOE and COACH.

"COACH and Equity: Views and Career Plans of Chemistry Women and Underrepresented Minority Graduate Students in STEM", Chemical Sciences Roundtable – Diversity, Equity and Inclusion Meeting, National Academy of Sciences, May 2021. (Virtual)

"The Art of Effective Negotiation", Brookhaven Women in Science (BWIS) Workshop, Brookhaven National Laboratory, April 2021. (Virtual)

"The Art of Effective Negotiation", Worcester Polytechnic Institute (WPI) Women Graduate Student group, April 2021. (Virtual)

"Effective Negotiation Skills for the Workplace", NSF Center for Chemical Innovation, Duke University, Department of Chemistry, Duke University and University of California, Berkeley, March 2021. (Virtual)

"Reflections on a Career in Science", Women in Chemistry Initiative (WICI) Spring Social Meeting, Department of Chemistry, University of California, Berkeley, February 2021 (Virtual) in the Biosciences Area, Lawrence Berkeley National Laboratory, December 2020. (Virtual)

"Mentoring for Success in Science and Innovation", Mentoring Program in the Energy Sciences Area (MESA), Lawrence Berkeley National Laboratory, December 2020. (Virtual)

"Women as Leaders in Science and Engineering", International Women's Forum Annual Meeting, October 2020. (Virtual)

"Career Launch, Making the Most of Your Talents", AIChE Annual Meeting, November 2020. (Virtual)

"Honing Your Negotiation Skills for Positive Outcomes", National ACS Fall Meeting, Empowering Women in Organic Chemistry Session, August 2020. (Virtual)

"Mentoring for Career Success" NSF Center for Chemical Innovation, Northwestern University of University of Illinois and UC Berkeley Chemistry Departments, June 2020.

"Mentoring for Success in Science and Innovation", Lawrence Berkeley National Laboratory, Energy Sciences Division, March 2020.

"Mentoring for Success in Science and Innovation", NSF Center for Chemical Innovation, Duke University, Department of Chemistry, March 2020.

"The Importance of Global Scientific Engagement" Helen Murray Free Endowed Lectures, Department of Chemistry, Wooster College, Wooster, MA, February 2020.

"The Art of Effective Negotiation", Indiana University-Purdue University Indianapolis, November 2019.

"Reflections on COACHing Women Towards Successful Careers in STEM", Women in STEM Symposium, 2019 Naval Academy Science & Engineering Conference (NASEC), U.S. Naval Academy, Annapolis, MD, November 2019.

"The Art of Effective Negotiation" and "Mentoring for Success in Science and Engineering", Department of State #HiddenNoMore Workshop, Washington DC, November 2019.

"COACHing Women Scientists Towards Career Success", WISE Luncheon, Emory University, October 2019.

"The Importance of Global Scientific Engagement", J. Mark Sowers, College of Science, Virginia Polytechnic Institute and State University, Blacksburg, VA, October 2019.

"The Power of Persuasive Communication and Negotiation", Patullo Conference, Warrenton, VA, September 2019.

"COACHing Women to be Leaders in Science and Innovation", Empowering Women in Organic Chemistry Meeting, Philadelphia, PA, June 2019.

"Mentoring for Success in Science and Innovation", Lawrence Berkeley National Laboratory, Computer Sciences Division, June 2019.

"Follow Your Yellow Brick Road", Commencement Address, College of Chemistry, University of California, Berkeley, CA, May 2019

"The Art of Persuasive Communication and Negotiation" and "Women as Leaders in Science and Engineering", Department of Chemistry, University of California, Berkeley, CA, May 2019.

"An Evening with Geri Richmond", National Medals of Science Event, Portland State University, Portland, OR, May 2019.

"Reflections on Women in Science Around the Globe: Their Challenges, Aspirations and Successes", International Women's Forum, Oregon Chapter Luncheon, Portland, OR, May 2019.

"Mentoring for Success in Science and Innovation" Iowa State University and Ames Laboratory, Ames, IA, May 2019.

"Reflections on Women in Science Around the Globe: Their Challenges, Aspirations and Successes", U.S. Patent and Trade Office (USPTO) Network of Executive Women Event, USPTO Office Building, Alexandria, VA, April 2019.

"Mentoring and Networking for Career Success", Susan Bulkeley Butler Center for Leadership Excellence, Purdue University, West Lafayette, IN, April 2019.

"COACH Project on Women in Water Research in Africa", Elsevier Foundation Board Meeting, New York City, NY, April 2019.

"Why Diversity in Science is Important Today and, in the Future,", Joint Genome Institute User Meeting, San Francisco, April 2019.

"Robust Science: Problems and Solutions" Panel, Columbia University Symposium: Promoting Credibility, Reproducibility and Integrity in Research, Columbia University, New York City, NY, March 2019.

"The Importance of Global Scientific Engagement", Celebrating Women in Science Speaker, Keck Science Center, Claremont CA, March 2019.

"Mentoring and Networking for Career Success" and "Effective Negotiation and Communication" COACH workshops, International Women's Day OWSD event, Colombo, Sri Lanka, March 2019.

"The Importance of Global Scientific Engagement", Izatt Christensen Lecturer, College of Physical Sciences, Brigham Young University, Provo, UT, February 2019.

"The Importance of Strong and Inclusive Leadership in Research and Innovation", Signature Lecturer for Inclusive Excellence Series, College of Science, Louisiana State University, Baton Rouge, LA, January 2019.

"Launching Your Career: Tips and Tactics" and "Mentoring for Success in Science and Innovation", American Indian Science and Engineering Society, Oklahoma City, OK, October 2018.

"Career Reflections", Keynote Speaker, Bay Area Postdoc Symposium, Lawrence Berkeley National Laboratory, Berkeley, CA, September 2018.

"Women in Science Around the Globe: Stories of their Aspirations, Successes and Challenges", League of Women Voters, Eugene, OR, September 2018.

"Mentoring and Networking for Success in Science and Innovation", Brookhaven National Laboratory, Brookhaven, NY, August 2018.

"Geri Richmond in Conversation with Joe Palca", Lawrence Berkeley National Laboratory Women in Science Seminar Series, Berkeley, CA, June 2018.

"An Evening with Geri Richmond ", Interviewed by Jo Handelsman, Director, Wisconsin Institute for Discovery, University of Wisconsin, Madison, WI, May 2018.

"Empowering Global Scientific Engagement", University of Puget Sound, Tacoma, WA, March 2018.

"National Science Board 2018 Science and Engineering Indicators Report", Committee on Chemistry and Public Affairs Meeting, National American Chemical Society Meeting, New Orleans, LA, March 2018.

"Mentoring for Success", National American Chemical Society Meeting, New Orleans, LA, March 2018.

"Mentoring for Success in Science and Innovation" and "The Art of Effective Negotiation and Communication", Division of Computer Sciences, Lawrence Berkeley National Laboratory, March 2018.

"Empowering Global Scientific Engagement", St. Olaf College, Northfield, MN, February 2018.

"National Science Board 2018 Science and Engineering Indicators Report", U.S. House of Representatives Briefing, Rayburn Office Building, Washington, DC, February 2018.

"National Science Board 2018 Science and Engineering Indicators Report", U.S. Senate Briefing, Senate Russell Office Building, Washington, DC, February 2018.

"Career Launch and Acceleration" and "Mentoring for Success in Science and Innovation", University of Hawaii, Honolulu, January 2018.

"A Career in Science: A Career of Turning Points and Unlikely Destinations", Conference for Undergraduate Women in Physics, Eugene, OR, January 2018.

"Mentoring for Success in Science and Innovation", Division of Earth Sciences, Lawrence Berkeley National Laboratory, January 2018.

"Mentoring for Success in Science and Innovation" and "Career Launch and Acceleration", University of Hawaii, Honolulu, HI, January 2018.

"The Importance of Strong and Inclusive Leadership in Science and Engineering", Department of Physics, University of Connecticut, November 2017.

"Mentoring and Networking for Success in Science and Engineering", Oakridge National Laboratory, Oakridge, TN, November 2017.

"Reflections on a Career in Science", Advancing Science in America Luncheon, Portland, OR, October 2017.

"Empowering Global Scientific Engagement", Reed College, Portland, OR, August 2017.

"Elements for Success in Science and Innovation: The Importance of Inclusive Leadership and Mentoring", 2017 Cottrell Research Scholars Conference, Research Corporation, Tucson, AZ July 2017.

Presentation at the Oregon Chapter of the Achievement Rewards for College Scientists (ARCS) Luncheon, Portland, OR August 2017.

"Commencement Address", Kansas State University Graduate School Commencement Ceremony, Manhattan, KS, May 2017.

"Commencement Address", Illinois Institute of Technology Commencement Ceremony, Chicago, IL, May 2017.

"The Importance of Global Scientific Engagement", National Institute of Standards and Technology, Gaithersburg, MD, April 2017.

"Effective Communication and Negotiation Techniques", National Institute of Standards and Technology, Gaithersburg, MD, April 2017.

"Career Launch and Acceleration", Graduate Students in Chemistry, Univ. of California, San Diego, March 2017.

"Persuasive Negotiation and Communication in Science", Graduate Students in the Chemical Sciences, University of Washington, Seattle, WA, February 2017.

"Reflections", Department of Chemistry, University of Washington, Seattle, WA, February 2017.

"Persuasive Negotiation Techniques", Graduate Students in Computer Science and Engineering, Univ. of California, San Diego, February 2017.

"Women Leading the Way in Science" and "The Art of Effective Negotiation", Brookhaven Women in Science, Brookhaven National Laboratory, January 2017.

"The Art of Effective Negotiation" and "Women as Leaders in the Scientific Enterprise", Brookhaven National Laboratory Women in Science Retreat, Port Jefferson, NY, January 2017.

"Career Launch and Acceleration for Postdoctoral Associates", 251st National ACS Meeting, Philadelphia, PA, August 2016.

"Advancing in Science: The Importance of Good Leadership and Strong Networks", Oakridge National Laboratory, Oakridge, TN, June 2016.

"Career Launch and Acceleration for Postdoctoral Associates", 250th National ACS Meeting, Boston, MA, August 2015.

"Effective Negotiation in the Scientific Workplace", USAID-NSF PEER Forum, Lima, Peru, March 2015.

"Exploring the Unknown with the REU Program at the University of Oregon," 249th National ACS Meeting, Denver, CO, March 2015.

"Career Launch and Acceleration for Postdoctoral Associates", 248th National ACS Meeting, San Francisco, CA, August 2014.

"Women as Leaders in the Scientific Enterprise", 247th ACS National Meeting, Dallas, Texas, March 2014.

"COACH: Going Global to Help Scientists in the Developing World", 247th ACS National Meeting Dallas, Texas, March 2014.

"Quilting Together the Stories of Women Scientists in the Developing World." USAID, Washington DC, February 2014.

"Negotiation 101 for Graduate Students in Science", Department of Chemistry, University of Pittsburgh,

Pittsburgh, PA, November 2013.

"Powerful Postdocs: Landing that First Academic Job", 245th National ACS Meeting, Indianapolis, IN, Sept. 2013.

"Powerful Postdocs: The Nuts and Bolts of Effective Negotiation", 245th National ACS Meeting, Indianapolis, IN, Sept. 2013.

"The Nuts and Bolts of Effective Negotiation", Argonne National Laboratory, Argonne, IL, May 2013.

"Quilting Together the Voices of Women Scientists in the Developing World", Parsons Award Address, American Chemical Society Meeting, New Orleans, LA, April 2013.

"Effective Leadership Skills for Women Scientists and Engineers", Ecole Supérieure Privée d'Ingenierie et de Technologies (ESPRIT), Tunis, Tunisia, March 2013. (with Prof. Nora Berrah, Western Michigan University)

"Building Research Collaborations between Women Scientists in the U.S. and in Africa through COACH Programs", Materials Research Society Meeting, Boston, MA, November 2012.

"Negotiation 101: For Graduate Students and Postdoctoral Associates in Biomedical Engineering Fields", Biomedical Engineering Society Annual Meeting, Atlanta, October 2012. "Effective Communication: The Art of Getting Your Message Across", 243rd National ACS Meeting, Philadelphia, PA, August 2012.

"Launching your Career: Tips and Tactics for Success for Postdocs ", 243rd National ACS Meeting, Philadelphia, PA, August 2012.

"The Nuts and Bolts of Effective Negotiation", 242nd National American Chemical Society Meeting, San Diego, March 2012.

"Effective Communication: The Art of Getting Your Message Across", 242nd National American Chemical Society Meeting, San Diego, March 2012.

"Networking for Women Scientists: Successes of the COACH Program", Brazil-U.S. Joint Commission Meeting on Science and Technology, Brasilia, Brazil, March 2012.

"Gender Equity Data from Department Chairs of Top Research Universities", ADVANCE Program, University of Nebraska, Lincoln, NE, January 2012.

"Don't Ask, Don't Get: Negotiation Skills for Career Advancement", ADVANCE Program, University of Nebraska, Lincoln, NE, January 2012.

"Career Building: Making the Most of your Talents", Women Graduate Students in Chemistry, University of Pennsylvania, Philadelphia, November 2011.

"Removing Gender Hurdles that Hinder the Pace and Success of Women Faculty in Higher Education", Penn Forum for Women Faculty, University of Pennsylvania, Philadelphia, November 2011.

"Women in Science: Breaking Through the Plexiglas Ceiling", Osher Living and Learning Institute, Eugene, OR, May 2011.

"Effective Communication and Powerful Scientific Presentations", Women Graduate Students, Purdue University, Department of Chemistry, West Lafayette, IN, April 2011.

"Persuasive Conversations and Presentations", Conference for Women Undergraduates in Physics in the Northwest, Portland, OR, April 2011.

"Women as Leaders in the Scientific Enterprise", Campbell Lectureship, University of Southampton, Southampton, UK, March 2011.

"Making the Most of the Moment: The Art of Getting Your Message Across", 241st ACS National Meeting, Anaheim, CA, March 2011.

"Potholes and Speed Bumps on the Road to Diversity in STEM Fields: COACH Efforts to Smooth the Ride", ADVANCE Distinguished Lectureship, Skidmore/Union Colleges, Saratoga Springs, NY, March 2011.

"Making the Most of the Moment: The Art of Getting Your Message Across", ADVANCE Distinguished Lectureship, Skidmore/Union Colleges, Saratoga Springs, NY, March 2011.

"Potholes and Speed Bumps on the Road to Diversity in STEM Fields: COACH Efforts to Smooth the Ride", Women in Science and Technology Distinguished Lectureship, Georgia Institute of Technology, February 2011.

"Negotiation 101: What They Left Out of the Lab Manual", Women Graduate Student Organization, Georgia Institute of Technology, February 2011.

"The Nuts and Bolts of Effective Negotiation", Graduate Women in Science, Washington State University, Pullman, WA, January 2011.

"Effective Communication: The Art of Getting Your Message Across", Graduate Women in Science, Washington State University, Pullman, WA, January 2011.

"Launching Your Career: Tips and Tactics", Graduate Women in Science, Washington State University, Pullman, WA, January 2011.

"Career Advancement Tips & Techniques: What They Left out of the Lab Manual", St. Louis Section of the ACS, Women Chemists Dinner, St. Louis, MO, November 2010.

"Don't Ask – Don't Get: Women and Negotiation", Southern Illinois University, Edwardsville, IL, November 2010.

"Diversity in Science and Engineering: Why is it so Important? Why is it so Difficult to Achieve?", Southern Illinois University, Edwardsville, IL, November 2010.

"Battling Biases and Barriers: Necessary Steps our Academic Institutions Must Take to Assure a Strong Science and Engineering Workforce", Southern Illinois University, Edwardsville, IL, November 2010.

"Assembling a Successful Scientific Career with a Full Toolbox", Best Practices Conference on Teaching and Learning, San Juan, Puerto Rico, October 2010.

"Empowering Women to be Leaders in Science and Engineering in the U.S.", International Symposium for Gender Equal Participation and Female Researchers' Empowerment, Tokyo City University, Tokyo, Japan, October 2010.

"Potholes and Speedbumps on the Road to Diversity: COACH Efforts to Smooth the Ride", Heritage and Hope Conference on Women's Education in a Global Context, Bryn Mawr College, September 2010.

"Professional Skills Training for Graduate Students: What They Left Out of the Lab Manual", Department of Chemistry, Iowa State University, April 2010.

"Women: We've Come a Long Way Maybe?" Eugene City Club, Eugene, OR, February 2010.

"Diversity in Science and Engineering: Why is it so important? What can we do about it?" Department of Chemistry, Hope College, January 2010.

"Potholes and Speed Bumps on the Road to Diversity: COACH Efforts to Smooth the Ride", National Science Foundation, Mathematical and Physical Science Division, Distinguished Lecture Series, Arlington, VA, January 2010.

"Science Savvy Women: Breaking through the Plexiglas Ceiling", Science Savvy Month of Events, UO Portland, Portland, OR, October 2009.

"Diversity in Science and Engineering: Why is it so important? Why is it so difficult to achieve?", Department of Chemistry, University of Indiana, Bloomington, IN, September 2009.

"COACH Strategies for Increasing Minority Players on the Chemistry Professional Roster", 235th National American Chemical Society Meeting, Washington, DC, August 2009.

"Battling Bias and Barriers: Necessary Steps our Academic Institutions Must Take to Assure a Strong Science and Engineering Workshops", Eberly College of Arts and Sciences Distinguished Lecturer, West Virginia University, March 2009.

"Don't Ask, Don't Get", Women in Technology, Invitrogen, Eugene, OR, April 2009.

"Quilting Together a Professional Career in Science", AWIS Chapter, Virginia Tech, Blacksburg, VA, March 2009.

"Powering Up: Women as Leaders in the Scientific Enterprise", ADVANCE Virginia Tech Distinguished Lecture, Virginia Tech, Blacksburg, VA, March 2009.

"COACHing for Better Science - Workshops for Graduate Students, Faculty and Administrators", ADVANCE Program, University of North Carolina at Charlotte, February 2009.

"When Scientific Brilliance Isn't Enough", Carroll King Memorial Lecture, Northwestern University, September 2008.

"COACHing STEM Women Graduate Students in Effective Negotiation and Communication Techniques", Washington State University, October 2008.

"Professional Skills Development for STEM Faculty", Clare Booth Luce Professors and Postdoctoral Associates Meeting, Washington, DC, August 2008.

"Professional Skills for Pursuing a Career in Academia", Clare Booth Luce Graduate Fellows Meeting, Washington, DC, August 2008.

"Gender Equity Workshops for Chairs of the Top Physics and Chemistry Departments in the U.S.: What's the Impact?" Society for Industrial and Applied Mathematics Annual Meeting, San Diego CA, July 2008.

"Beyond Bias and Barriers: Necessary Steps Federal Agencies Must Take to Assure a Strong Science and Engineering Workforce", 2008 Federal Interagency Title IX Symposium: Gender Equity in Science, Technology, Engineering and Mathematics, Washington, DC, July 2008.

"COACHing for Better Science: Lessons Learned from our Toils in the Trenches", NSF Annual ADVANCE Meeting, Alexandria, VA, May 2008.

"Quilting Together a Professional Life in Science", Girl Scouts Western Rivers Council Annual Meeting, Springfield, OR, April 2008.

"The Common Thread between Scientists and Quilters", Eugene Rotary Club, Eugene, OR, April 2008.

"What they Left Out of the Lab Manual: Professional Skills Training for Graduate Students, Postdocs and Maybe Even a Few Faculty", 233rd National American Chemical Society Meeting, Boston, MA, New Orleans, LA, April 2008.

"Winning ACS Awards: The Good, the Bad and the Unknown", 233rd National American Chemical Society Meeting, Boston, MA, April 2008.

"Quilting Together a Professional Life in Science", Sr. Mary Thompson Scholar Lectureship, College of St. Catherine, St. Paul, MN, March 2008.

"Don't Ask – Don't Get: Effective Communication and Negotiation Tactics for Career Advancement", Rohm and Haas Company, Spring Hill, PA, March 2008.

"Negotiating for What You Need for a Successful Scientific Career", Women in Science Luncheon, Washington State University, Pullman, WA, January 2008.

"Beyond Bias and Barriers: Necessary Steps Academic Institutions Must Take to Assure and Strong Science and Engineering Workforce", Washington State University, Pullman, WA, January 2008.

"The Magic and Mysteries of Water", Leland Wilson Lectureship, University of Northern Iowa, Cedar Falls, IA, October 2007.

"Quilting Together a Professional Life in Science", Women in Technology and Science Luncheon, University of Oregon, Eugene, October 2007.

"Beyond Bias and Barriers: Necessary Steps Academic Institutions Must Take to Assure and Strong Science and Engineering Workforce", WISE Program, University of Delaware, Newark, DE, September 2007.

"Powering Up: Women as Leaders in the Scientific Enterprise", Conference on Women in Science: The Way Forward, Heidelberg, Germany, May 2007.

"Beyond Bias and Barriers: Necessary Steps Academic Institutions Must Take to Assure and Strong Science and Engineering Workforce", WISE Seminar Program, University of Southern California, March 2007.

"Beyond Bias and Barriers: Necessary Steps Academic Institutions Must Take to Assure and Strong Science and Engineering Workforce", Leadership Seminar Series, University of Illinois, Chicago, March 2007.

"Be Smart: Negotiating for What You Need to Achieve Your Personal and Professional Goals", Graduate Student Mentoring Seminar, Stanford University, Palo Alto, CA, February 2007.

"Beyond Bias and Barriers: Necessary Steps Academic Institutions Must Take to Assure and Strong Science and Engineering Workforce", University of Southern California, Los Angeles, CA, February 2007.

"Coaching Women to Succeed in Academic Science", University of Colorado, Boulder, CO, November 2006.

"Women in Science and Engineering in Higher Education", 199th Annual National Association of State Universities and Land Grant Colleges (NASULGC), Houston, Texas, November 2006.

"Negotiating for What You Need to Achieve Your Personal and Professional Goals", Department of Chemistry, University of Virginia, September 2006.

"COACHing Women to be Successful in the Sciences", Council on Chemical Research, Tucson, AZ, May 2006.

"COACHing Women to Succeed in Science", Stanford Think Tank Meeting on Title IX, Stanford University, April 2006.

"Career in Science: Things I Wish I'd Known Before Morphing into a Lab Rat", Keynote Speaker, National Conference on Undergraduate Research, Asheville, NC, April 2006.

"Quilting Together a Professional Life in Science", Brode Lectureship, Whitman College, Walla, Walla, WA, March 2006.

"Negotiating for What You Need to Achieve Your Personal and Professional Goals" 231st National American Chemical Society Meeting", Atlanta, GA, March 2006.

"Quilting Together a Professional Life in Science: A Female Faculty Perspective", Donna Fox Lectureship, Cornell College, Mount Vernon, Iowa, February 2006.

"The Fascinating Properties of Water", Learning in Retirement Group, Eugene, OR, November 2005.

"Quilting Together a Professional Life in Science", American Association of University Women, Eugene, OR, November 2005.

"Quilting Together Professional Career in Science", Keynote Speaker, Karen Wetterheim Symposium, Women in Science Program, Dartmouth College, Hanover, NH, May 2005.

"The Impact of COACH on Women Faculty in Academic Science", Joint meeting of the XXXV International Congress of Physiological Sciences and Experimental Biology, San Diego, CA, April 2005.

"COACH: Working to Level the Playing Field for Women Chemists in Academia", 229th National American Chemical Society Meeting, San Diego, CA, March 2005.

"Quilting Together a Professional Life in Science", Science Careers in Search of Women Conference, Argonne National Laboratory, Argonne, IL, February 2005.

"COACHing Women in Leadership Roles in Academia", Women's Leadership Alliance Meeting, University of California, San Diego, January 2005.

"What is COACH", "A Chemistry Ph.D.? Why Bother?", Presidential Symposium on Changing Needs in Doctoral Education, 228th National American Chemical Society Meeting, August 2004.

"Taking the Sigh out of Science", Tenth Cottrell Scholar Conference, Research Corporation, Tucson, AZ, July 2004.

"Women in the Chemical Workforce: Comparing the US and European Countries", panel discussion, German Chemical Society Meeting, Munich, Germany, October 2003.

"COACH: Advancing the Careers of Women Scientists", Department of Chemistry, University of Minnesota, April 2003.

"RSECs: Providing Leadership Opportunities for All Participants", 224th National American Chemical Society Meeting, Boston, MA, August 2002.

"Quilting Together a Professional Life in Science", Department of Chemistry, Women in Science Group, University of Pennsylvania, Philadelphia, PA, April 2002.

"COACH: Assisting Women Faculty", Department of Chemistry, University of Washington, Seattle, WA, April 2001.

"COACHing Women for Successful Careers in the Chemical Sciences", 220th National American Chemical Society Meeting, Washington, DC, August 2000.

"Teaching Science to Nonscientists", APS Distinguished Lectureship, University of Wisconsin, Oshkosh, Oshkosh, WI, April 2000.

"Taking the Sigh Out of Science: Teaching Science to Nonscientists", Frontiers in Science Lectureship, Texas A&M University, College Station, TX, February 2000.

"Striving for a Healthy Equilibrium Between Work and Home", Women in Science and Engineering Conference, Texas A&M University, College Station, TX, February 2000.

"Teaching Science to Nonscientists", Clifford B. Purves Lectureship, McGill University, Montreal Canada, November 1999.

"Quilting Together a Professional Life in Chemistry", Women Chemists Committee, California Section, Mills College, Oakland, CA, October 1999.

"Taking the Sigh Out of Science: Demonstrations for K-12 Science Classes", 4-J Teachers In-service Day

Workshop, Eugene, OR, October 1999.

"Taking the Sigh Out of Science", Northwest Regional American Chemical Society Meeting, Portland, OR, June 1999.

"Quilting Together a Professional Life in Science", 54th Northwest Regional American Chemical Society Meeting, Portland, OR, June 1999. (Women's Luncheon)

"Mentoring and Recruiting Women Chemistry Faculty and Students", Western Chemistry Chair Conference, Western Washington University, October 1998.

"Quilting Together a Professional Life in Science", Emeritus Faculty Meeting, University of Oregon, Eugene, November 1998.

"Taking the Sigh out of Science", Portland Alumni Lecture Series, Multnomah Club, Portland, OR, April 1998.

"Striving for a Healthy Balance Between Work and Home", 215th American Chemical Society Meeting, Dallas, TX, March 1998.

"Quilting Together a Professional Life in Science", Mount Holyoke College, November 1997.

"Women in Science: A Quilting Perspective", Sweet Briar College, Conference on Supporting Women in Science, April 1997.

"Women Scientists of Today", Symantec Corporation, Eugene, OR, June 1996.

"Quilting Together a Professional Life", Women's Chemist Luncheon, American Chemical Society Meeting, St. Louis, MO, March 1996.

"Importance of Undergraduate Research", NSF Sponsored Symposium for Undergraduate Science Majors, Corvallis, OR, March 1995, October 1995, October 1996.

"Tenure and Tots", Younger Chemist Committee Panel Discussion, American Chemical Society Meeting, American Chemical Society Meeting, Chicago, Ill, August 1995.

"Balancing a Science Career and Children", Panel Discussion, Western Spectroscopy Association, Asilomar, CA, January 1995.

"Taking the Sigh Out of Science", University of Oregon Alumni, Portland, OR, October 1994.

"Communicating Science: Bonding with the Nonscientist", Women's Chemist Luncheon, American Chemical Society Meeting, Washington DC, August 1994.

"Women in Science", Banquet speaker for the Saturday Academy, Portland OR, March 1991.

"Women in Science: We've Come a Long Way, Maybe?", Luncheon speaker at Women in Action Meeting, Vancouver, WA, March 1988.

"Lasers in Chemistry", Dinner speaker at the Cincinnati Division of the American Chemical Society, Cincinnati, OH, October 1987.

"Teaching about Lasers in Chemistry", Dinner speaker at annual meeting of Science Teachers in the Eugene School District, Eugene, OR November 1987.

"Careers in Chemistry: Laser Research", "Expanding Your Horizons" symposium for female high school science students, Eugene, OR, Feb. 1986.

"Education and Employment of Scientists and Engineers in Academia", Consultant for Office of Technology programs, Congress of the United States, Washington, DC, 1985-1986.

“Women and Minorities in Science”, Workshop panelist for the Conference on the Utilization of Science Ph.D.'s in the Eighties, Cornell University, April 1985.

“Can Women Scientists Make a Difference?”, Seminar series sponsored by the Educators for Social Responsibility, Philadelphia, PA, March 1985.

** Numerous talks have also been given at local high schools, grade schools and to K—12 teacher groups in the area and in the state about chemistry, lasers in chemistry, career options in chemistry, women in chemistry and teaching chemistry.

Research Participants

PREVIOUS POSTDOCTORAL RESEARCH ASSOCIATES AND VISITING FACULTY

Dr. Konnor Jones – University of Central Florida, Orlando, FL

Dr. Ashley Mapile – Nature Reviews, New York, NY

Dr. Emma Tran - Intel Corporation, Beaverton, OR

Dr. Rebecca Altman – University of Oregon Honors College, Faculty

Dr. Andrew Carpenter, Oxford Instruments (Andor), Portland, OR

Mr. Marc Foster – (MS) MIT-Woods Hole Oceanographic Institute

Dr. Jennifer Hensel – Nanovox, Eugene, OR

Dr. Sumi Wren – Environmental Canada, Toronto

Dr. Nicholas Valley – CNU, College of Health Sciences, Sacramento

Dr. Clive Kittredge – Department of Energy NETL, Albany, OR

Dr. Katy Plath - KoBold Metals, Berkeley, CA

Dr. Hristina Staleva – Prague, Czech Republic

Dr. Stephanie Ota – Teacher, Oregon City High School

Dr. Simon Schrodle, BASF, Germany

Prof. Davida Brown - Linfield College

Prof. Dennis Hore - University of Victoria, Canada

Prof. Christy Landes – University of Illinois, Urbana-Champaign, Champaign, IL

Prof. Robert Walker – Montana State University

Prof. Donna Jaramillo-Fellin – University of California, Merced (Laboratory Coordinator)

Prof. Heather Allen – Ohio State University

Prof. Marie Messmer – Lehigh University

Prof. Barbara Balko – Lewis and Clarke College

Prof. John Kauffman – FDA, Division of Pharmaceuticals

Prof. Andreas Friedrich – Institut für Energieverfahrenstechnik

Prof. Rosina M. Georgiadis – Boston University

Dr. Michael Brindza, NIST

Dr. Mac Brown – Los Alamos National Laboratory

Dr. Beth Smiley – Brown University

Dr. John Daschbach – Pacific Northwest National Laboratory

Dr. Jeanne M. Robinson – Los Alamos National Laboratories
Dr. Victoria Shannon – Novellus, Portland, Santa Jose (formerly Tektronix)
Dr. Hossein Rojhantalab – Intel Corporation, Portland, OR

PREVIOUS PH.D. AND MS GRADUATE STUDENTS

Dr. Brittany Gordon – Victoria, Canada
Dr. Regina Ciszewski - Nestle' Health Science, CA
Dr. Brandon Schabes – Assistant Professor, Union College
Dr. Laura McWilliams – Science Policy Fellow, California
Dr. Karl Meitzner – Attollo Engineering, Camarillo, CA
Dr. Ellen Robertson – Assistant Professor, Union College
Dr. Stephanie Ota – Teacher, Oregon City High School
Dr. Patrick Blower – Radiance Corporation, Petaluma, CA
Dr. Cathryn McFearin – UC Berkeley
Dr. Eric Shamay – Tableau Software, Seattle, WA
Dr. Dan Beaman – Intel Corporation, Beaverton, OR
Dr. Adam Hopkins – Metrohm Instruments, Riverview, FL
Dr. Dave Walker – Triquint, Portland, OR
Dr. Melissa Kido – Boston, MA
Prof. Mark Watry – Spring Hill College
Prof. Theresa Tarbuck – Vincennes College, Peoria, IL
Prof. Betsy Raymond – Western Washington University
Dr. Larry Scatena – University of Oregon (Laser Laboratory Director)
Dr. Kevin Becraft – Lam Research, Fremont, CA
Dr. Travis Abshere – Triquint, Portland, OR
Prof. John Conboy – University of Utah
Dr. Eric Miller – Wachter Siltronic, Portland OR
Prof. Derek Gragson – California Polytechnic State University
Dr. Pam Fischer – Intel Corporation, Portland, OR
Prof. Paul Bunson – Lawrence University
Dr. Eric Wong – Intel Corporation, Portland
Dr. Richard Bradley – Flex Products, Santa Clara
Dr. Daniel Koos – Motorola, France (formerly Tektronix)
Dr. Luanne Rolly – Hewlett Packard, Corvallis
Dr. Susan Fitzpatrick – Merck Sharpe and Dohm
Matt Hamamoto – (MS) Radiance Corporation, Petaluma, CA
Megan Leich – (MS) – Northern California High School (Teacher)
Prof. Safwan Arekat – University of Bahrain (jointly with Prof. Kevan)
Jennifer King – (MS) – Sun River High School (Teacher)
Steve Stuckmeyer – (MS) – University of Oregon

Bayrn McCarty – Texas (MS)
Roseanne Kozlowski – (MS)
Jay O'Brien – Boulder, CO (MS)
Ms. Joanne Maule-Schmidt, (MS) Philadelphia School System (Teacher)
Evan Christofferson, (MS) United Health Group, Grand Rapids, MI

PREVIOUS VISITING FACULTY

Prof. Kevin Johnson, (Pacific University)
Prof. Fred Moore (Whitman College)
Prof. Lee Sharpe (Grinnell College)
Prof. Shane Ohline (Wellesley College)
Prof. Ron Swisher (Oregon Institute of Technology)

PREVIOUS UNDERGRADUATE RESEARCH STUDENTS

(REU = RESEARCH EXPERIENCE FOR UNDERGRADUATES)

Megan Sciascia (U Oregon 2020-2021)
Riley Cowen (U Oregon 2021-2022)
Katelyn Alley (REU 2020)
Emma Hopkins (NSF REU 2018)
Ashley Mapile (NSF REU 2018)
Collin Steen (NSF REU 2016)
Grace Lindquist (NSF REU 2016)
Courtney Olson (NSF REU 2013)
Brock Tillotson (2012-2013)
Kyle Hite – (NSF REU 2012)
Grace Conte (NSF REU 2011)
Phillip Cox (NSF REU 2010)
Nathan Campbell (NSF REU 2009)
Abigail Wagner (NSF REU 2008)
Ellen Robertson – (NSF REU 2007)
Elizabeth Surano – (NSF REU 2005)
Libby MacKinnon – (NSF REU 2005)
Dan Parks (NSF REU 2004)
Hillary Van Anda (NSF REU 2003)
Brittany Lee - (NSF REU 2001)
Dan Solis (NSF REU 2000)
Allison Vejtruba – (NSF-REU 1999)
Theresa Hannon (NSF-REU 1997)
Betsy Raymond (NSF-REU 1996)
Stephanie Laska (NSF-REU 1994)
Doug Demarest (NSF-REU 1994)
Vince Woldt (NSF-REU 1991-1992)

Gabriella Cano (NSF REU 2021)
Lilly Kelly (NSF REU 2021)
Virginia Krause Krause (REU 2020)
Sophia Balderrama (NSF REU 2019)
Bryce Hickham (NSF REU 2017)
Benjamin Muller (2016-2018)
Nina Vincent (NSF REU 2015)
Amanda Siedschlag (NSF REU 2013)
Lonnie Kringle (NSF REU 2011)
Suzanne Wood (NSF REU 2012)
Maira Amezcua –(NSF REU 2011)
Jacqueline Burgher (NSF REU 2010)
Laura Sofen (NSF REU 2009)
Brittany Willis (NSF REU 2007)
Rachel Pollock (NSF REU 2006)
Scott Wren (NSF REU 2004)
Gregory Dyer (NSF REU 2003)
Jessie Marcum (NSF REU 2002)
Tran Phang - (NSF REU 2000)
Ben Paxton – (U of Oregon, 1999-2000)
Cindy Regal – (NSF-REU 1999)
Dave Walker (NSF-REU 1998)
Julie Gruetzmacher (NSF-REU 1996)
Mark Culley - (U of Oregon, 1994)
Henry Ajo (NSF-REU 1994)
David DeGraw (NSF-REU 1993)
Grace Neff (NSF-REU, 1989)

Hannah Morris (NSF-REU 1990)
Scott Kellar (U of Oregon, 1988-1989, NSF-REU)
Pauline Tan (U of Oregon, 1986-1987)
Peggy Mares (U of Oregon, 1986-1987)

Pam Chu (Bryn Mawr College, 1983-1985)
Susan Emlen (Bryn Mawr College, 1983-1985)
Ishita Mukerji (Bryn Mawr College, 1983-1984)
Margaret Schulz (Bryn Mawr College, 1982-1983)
Sally Hair (Bryn Mawr College, 1981-1982)
Penny Peterson (Bryn Mawr College, 1981-1982)
Swee Lian Tan (Bryn Mawr College, 1980-1981)
Joann Neth (Bryn Mawr College, 1980-1981)
Patricia Angueira (Bryn Mawr College, 1980-1981)

Lisa Pansoy (U of Oregon, 1988-1989, NSF-REU)
Dalibar Smetke (U of Oregon, 1987-1988)
Todd Wagner (U of Oregon, 1985-1986)

Tammy Maeda (Bryn Mawr College, 1983-1985)
Michele Donovan (Bryn Mawr College, 1984-1985)
Mindy Fleisher (Bryn Mawr College, 1982-1983)
Dana Tribula (Bryn Mawr College, 1982-1983)
Helen Collins (Bryn Mawr College, 1981-1982)
Kyong Mi Chang (Bryn Mawr College, 1981-1982)
Mary Lee (Bryn Mawr College, 1980-1981)
Julia Yang (Bryn Mawr College, 1980-1981)