

# Janet Elizabeth Nelson

## EDUCATION

**California Institute of Technology, Pasadena, CA**  
Thesis: *Synthetic, Structural, and Mechanistic Studies in Early Transition Metal and Actinide Chemistry*  
**Carleton College, Northfield, MN *magna cum laude***

**Ph.D. in Chemistry, May 1991**  
**B.A. in Chemistry, June 1986**

## PROFILE

Over 25 years of experience in scientific research, scientific review and research portfolio administration, complex and multi-disciplinary program/project management, business development, and science policy implementation. Demonstrated leader with direct career experiences across academia, government, not-for-profit organizations, and industrial communities.

## PROFESSIONAL EXPERIENCE

**URS Corporation, Germantown, MD**

**January 2010-present**

### ***Director, Business Development***

Provide support for development of major projects for the URS Global Management and Operations Services Group (GMOS) Energy and Science Strategic Business Unit. Provide site support of DOE's National Energy Technology Laboratory Office of Research and Development (NETL ORD) on the Research Engineering Services (RES) Contract as Director of Program Development and Deputy Director of Research.

### **Director of Program Development**

- Support growth/diversification of the NETL ORD portfolio; identify and pursue new opportunities.
- Support establishment of the NETL Program Development Process; write topical white papers/proposals.
- Develop win strategies; provide capture management; manage proposal preparation and review.
- Identify and develop strategic university, industrial, and governmental teaming partnerships.
- Implement NDAs, MOUs, CRADAs, and other teaming agreements.
- Plan and execute advanced technology development and technology transition programs.

### **Deputy Director of Research**

- Co-manage a joint commercial-academic research program responsible for creating, organizing and coordinating a multidisciplinary team of approximately 90 national and international staff scientists with a supporting university portfolio of over 200 directed research activities and utilizing a current multi-year budget of approximately \$200M supporting the NETL federal research effort.
- Advise DOE, URS, university partners and other governmental agencies and organizations as requested on research programs and priorities and participate in policy and technology development and review activities.
- Responsibilities include schedule development, control, and analysis, and cost engineering functions, providing technical direction, managing subcontractors, reporting, and security clearance processing.
- Provide direct program management for the successful execution of several NETL large, multi-year technical activities with a total portfolio value over \$50 Million. Projects under direct control include: NETL support of National Nuclear Security Administration (NNSA) Office of Defense Programs; NETL RUA "Grid Technology Collaborative"; DOE HQ Office of Science Workforce Development for Teachers and Scientists Program; Maintenance of the NETL Hydrogen Fueling RDT&E Platform (Charleston, WV); George Washington University Activity: Nanocomposites for Fuel Economy Improvement

### **Liaison to the NETL-RUA (Regional University Alliance)**

- Develop strategic teaming partnerships with Carnegie Mellon University, The Pennsylvania State University, the University of Pittsburgh, Virginia Polytechnic Institute and State University, and West Virginia University.
- Coordinate with RUA Universities to identify and pursue potential funding opportunities and funding sources.
- Support establishment of the NETL-RUA Strategic Growth Area Initiatives in Critical Materials, Grid Technologies, and Shale Gas.
- Build alliances, coalitions, and strategic relationships internally and with other Federal agencies, State and local governments, nonprofit and private sector organizations, and commercial and industrial organizations.

**Parsons**, Washington, DC and Pittsburgh, PA

March 2009-January 2010

***Principal Technical Consultant***

Provided advisory and due diligence services including technology assessment and market analysis for evaluating early stage technology with a focus on biotechnology and bioengineering. Provided contractor support of DOE's National Energy Technology Laboratory Office of Research and Development (NETL ORD) on Research and Development Solutions, LLC (RDS) contract.

**Program Manager, Bio-Engineering**

- Facilitated collaboration and joint technology development efforts between DOE/NETL and the University of Pittsburgh. Launched and managed 5 bioengineering research projects.
- Fostered and maintained state-of-the-art technical knowledge in areas including algae and biofuels biotechnology and bioengineering.
- Assessed the state of technologies focused on commercializing biotechnology in medicine, energy, environmental management and related fields.
- Administered technology transfer programs, including the identification of potential partnerships and collaborative opportunities.

**Portfolio Manager, RDS/NETL Attachment H**

- Managed 6 projects in a \$2.1M Portfolio. Assured consistency and attention to all reporting requirements, technical deliverables, schedule adherence and cost tracking. Projects under direct control included:
  - Collaborative University Support of NETL's Institute for Advanced Energy Solutions (IAES)
  - Development of WV Smart Grid Implementation Plan
  - Natural Gas Hydrates Pellet Production and Economic Feasibility Analysis
  - Construction of the NETL Appliance Lab
  - Design of the NETL Hydrogen Refueling Station
  - Development of a Bio-Diesel Fueled Solid Oxide Fuel Cell

**Project Manager, Natural Gas Hydrate CRADA with NETL**

- Managed collaboration to develop and demonstrate the use of Natural Gas Hydrates (NGH); provided technical and systems evaluation of the technology. Prepared, reviewed, approved, and maintained records, including those documents that prescribe processes, specify requirements, or establish design.

**Biotechnology Industry Organization**, Washington, DC

March 2008-March 2009

***Director, Industrial and Environmental Section***

Worked closely with the U.S. Congress, federal agencies, and international organizations to encourage the development of biotechnologies. Responsible for advocacy, business development, and communications services for biotechnology member organizations.

- Provided policy input on synthetic biology, green chemistry, algae and marine biotechnology, pharmaceutical intermediates, fine chemicals, food flavorings, food enzymes and other ingredients, biotechnology used in cosmetics, nanotechnology and other applications in industrial biotechnology.
- Staffed Industrial and Environmental Section (IES) working groups and board level committees.
- Developed policy options for the IES Governing Body.
- Developed scientific speaking programs for BIO meetings and conferences.
- Reviewed scientific literature, wrote reports, developed press release materials, prepared web site content.
- Authored policy papers for advocacy visits on Capitol Hill.

**The National Academy of Sciences**, Washington, DC

March 2007-January 2008

***2007 Commerce Science and Technology (ComSci) Fellow***

Assigned one year federal rotation to The National Research Council (NRC), Policy and Global Affairs Division (PGAD). Participated in the launch and execution of several major study projects of the NRC including:

- A major study project carried out jointly by the Board on Life Sciences (BLS) and the Board on Physics and Astronomy (BPA) on policy issues at the intersection of the physical and biological sciences;
- A major study project carried out by the Committee on Science, Technology, and Law (CSTL) engaging scientific, engineering, legal, and policy communities with the public, to explore the opportunities and challenges posed by synthetic biology;
- A special project to design and execute the First Annual Forum for Students of Science and Technology Policy hosted by NAS in January 2008.

**National Institutes of Health,  
Center for Scientific Review (CSR), Bethesda, MD  
Health Scientist Administrator**

**October 2000-February 2008**

**(GS-15)**

Served as Designated Federal Official responsible for managing the peer review process in compliance with applicable laws, NIH review regulations, and policy. Served in the Biological Chemistry and Macromolecular Biophysics Integrated Review Group (BCMB IRG).

**Deputy Chief, BCMB IRG**  
2008

February 2004- February

- Assisted Chief in supervision of IRG (14 Ph.D. scientists).
- Referred grant applications to appropriate Study Sections within IRG.
- Managed overall Scientific Review Administrator (SRA) workload distribution.
- Assisted with recruiting and training of new SRAs.
- Monitored Study Section nomination slates for quality and timeliness.
- Served as Acting IRG Chief when Chief was unavailable.

**Scientific Review Officer, BCMB IRG**

October 2000- February 2008

- Managed scientific review process for:  
High Throughput Screening Roadmap;  
Macromolecular Structure and Function (MSFA) Study Section;  
Metallobiochemistry Study Section (BMT) Study Section;  
Drug Delivery/Drug Discovery SBIR/STTR Panel; and  
Other grant mechanisms (Fellowships, Research Resources).

**Referral Officer, Division of Receipt and Referral**

February 2003-May 2004

- Selected appropriate institute assignments for incoming grant applications.
- Referred applications to Integrated Review Groups (Bioengineering Sciences IRG and Genetics IRG).

**Additional NIH Committee Service**

- Served on CSR/Division of Extramural Support Activities (DEAS) Communications Committee.
- Served on Steering Committee for Biological Chemistry and Macromolecular Biophysics reorganization.
- Served on SRA Training Committee.
- Served as Point Person for NIH Academic Research Enhancement Award (AREA) grant applications.

**The Petroleum Research Fund,  
American Chemical Society, (ACS-PRF), Washington, DC  
Program Officer**

**December 1997- October 2000**

Managed review of ACS PRF research proposals and supervised grant management for those proposals awarded grants.

- Administered Organic/Organometallic, Physical Organic, and Inorganic/Bioinorganic Committees.
- Directed ACS PRF-Scientific Education Program.
- Presented workshops on PRF programs and proposal preparation.
- Conducted site visits to active University grantees.
- Served as Chair-Elect, Chair, and Past-Chair for the ACS Staff Council.

**Wavefunction, Inc., Irvine, CA  
Director, Educational Projects**

**August 1996-December 1997**

Promoted the development and use of computational chemistry methods and molecular modeling tools in the mainstream chemistry community.

- Authored Workbooks for incorporating Molecular Modeling into the Organic Chemistry Curriculum.
- Developed and Published Academic Workshop: *Introducing Molecular Modeling into the Undergraduate Curriculum*.
- Marketed and Conducted Workshops Nationwide at Universities and Scientific Meetings.

**Middlebury College, Middlebury, VT**

**September 1994-August 1996**

**Assistant Professor of Chemistry and Biochemistry**

- Taught Organic Chemistry I and II, Advanced Laboratory I and II, Advanced Inorganic Chemistry.
- Directed Senior Thesis work and summer undergraduate student research.
- Directed student research in synthesis of zirconium thiolate complexes.
- Incorporated molecular modeling into the chemistry curriculum.
- Secured external funding:
  - Council on Undergraduate Research Academic-Industrial Undergraduate Research Partnership (AIURP) Award, 1996, \$3000, for undergraduate summer research fellowship support.**
  - National Science Foundation (NSF) Chemlinks Module Development, 1995, \$50,621, *Environmental Impact of Nuclear Technology.***
  - Gordon Conference Grant, 1995, \$550, Middlebury College, to attend Inorganic Research Conference.**
  - National Science Foundation (NSF) Field Test Site, 1995, \$500. *Development of a Materials Oriented General Chemistry Course.***
  - National Science Foundation Instrumentation and Laboratory Improvement (NSF-ILI), 1995, \$41,962, *Molecular Modeling Laboratory for Undergraduate Instruction.***
  - Vermont Institute of Science Math and Technology, 1994, \$3,500, *Integration of Computational Chemistry into the Undergraduate Classroom: Using Molecular Modeling to Enhance Organic Chemistry.***
  - Research Corporation, 1994, \$33,919, *Synthetic Strategies for the Preparation of New Monocyclopentadienyl Zirconium(IV) Sulfur Complexes.***
  - ACS-PRF-Type G, 1994, \$20,000, *Preparation and Reaction Studies of Monocyclopentadienyl Sulfide and Thiolate Complexes of Zirconium(IV).***
  - Gordon Conference Grant, 1994, \$560, to attend Inorganic Research Conference.**

**St. Olaf College, Northfield, MN**

**September 1992-August 1994**

**Assistant Professor of Chemistry**

- Taught Chemistry Classes including: Introductory Chemistry, Structural Chemistry and Equilibrium, Chemical Calculations, Organic Synthesis Lab I and II, Adv. Inorganic Chemistry, Advanced Synthesis Laboratory.
- Directed summer undergraduate student research.
- Incorporated air-sensitive synthesis into the chemistry laboratory curriculum.
- Secured external funding:
  - National Science Foundation Instrumentation and Laboratory Improvement (NSF-ILI), 1993, \$15,270, *Incorporation of Vacuum Line Systems for Air-Sensitive Chemistry into the Chemistry Curriculum.***

**Los Alamos National Laboratory, Los Alamos, NM**

**September 1991-September 1992**

**Postdoctoral Fellow**

Research Advisor: Dr. Gregory J. Kubas

- Conducted synthetic and structural studies of chromium, molybdenum, tungsten and technetium dihydrogen complexes.

**Los Alamos National Laboratory, Los Alamos, NM**

**September 1989-December 1989**

**Graduate Research Assistant**

Research Advisor: Dr. Alfred P. Sattelberger

- Conducted synthetic and structural studies of uranium (III) amido complexes.

**California Institute of Technology, Pasadena, CA**

**September 1986-May 1991**

**Doctoral Research**

Research Advisor: Dr. John E. Bercaw

- Conducted synthetic and mechanistic studies of zirconium olefin complexes.
- Conducted synthetic, structural, and mechanistic studies of tantalum thiolate and sulfido complexes.

**Washington University, St. Louis, MO**

**Summer 1984, Summer 1985**

**Summer Undergraduate Research Fellow**

Research Advisor: Dr. Andrew W.

Maverick

- Conducted synthetic studies of bis(*B*-diketone) palladium complexes.

**Sheldahl, Inc., Northfield, MN**

**June 1986-September 1986**

**Laboratory Assistant**

- Designed prototype and construction of flexible multi-layer printed circuitry.

## Security Clearance

## Honors and Awards

- 2013 URS Corporation President's Award for Business Development
- 2007 Commerce Science and Technology (ComSci) Fellow
- Project Kaleidoscope Faculty for the 21st Century (1994-present)
- Carleton College, Distinction in Major
- Phi Beta Kappa
- Sigma Xi
- Dow Chemical Company Fellowship, 1982-1986
- Westinghouse Science Talent Search Finalist (1982)

## Community Service

- 1997-present Peer review for proposals and manuscripts for ACS-PRF, NSF, Sloan Foundation, MIT Press
- 2008 Judge for International Genetically Engineered Machine (iGEM) Competition
- 2007-2009 Board of Directors, ScienceMONTGOMERY
- 2007-2008 Judge and Chair of Chemistry Section, Montgomery Area Science Fair

## Professional Development

- 2013 Advanced Leadership Development, SOMA International Consultancy, 6-day course "Strategy Development and Implementation, Organizational and Cultural Change, Leadership Development"
- 2012 Darla Moore School of Business, University of SC, "Thinking Strategically and Winning the Business"
- 2012 Darla Moore School of Business, University of SC, "Develop2Lead"
- 2006 NIH course "Introduction to the Principles and Practice of Clinical Research"
- 2005 NIH course "Redox Biology"
- 2004 NIH course "Extramural Scientist Administrator Training"
- 2002 NIH course "Principles of Clinical Pharmacology"
- 2000 American Chemical Society (ACS) M2L-Management to Leadership Program

## Professional Memberships and Affiliations

- American Chemical Society (ACS)
- American Association for the Advancement of Science (AAAS)
- American Institute of Chemical Engineers (AIChE)
- Society for Biological Engineering (SBE)
- West Virginia Clean State Program

## Publications

*Perspective on Opportunities in Industrial Biotechnology in Renewable Chemicals.* Brent Erickson, Janet E. Nelson, and Paul Winters, *Biotechnology Journal*, **2012**, 7(2). doi:10.1002/biot.201100069.

*New Biotech Tools for Green Chemistry.* Brent Erickson and Janet Nelson *CHEManager Europe*, **2008**, 10 14.

*The Molecular Modeling Workbook.* Warren J. Hehre, Alan J. Shusterman, and Janet E. Nelson, Prentice Hall, **2006**, ISBN#0132367319.

*Organic Chemistry, by Bruice, 4<sup>th</sup> Edition, Molecular Modeling Workbook.* Paula Yukanis Bruice, Warren J. Hehre, Alan J. Shusterman, and Janet E. Nelson, Prentice Hall, **2004**, ISBN#0131410407.

*Molecular Modeling Workbook to Wade's Organic Chemistry, 5<sup>th</sup> Ed.* Warren J. Hehre, Alan J. Shusterman, and Janet E. Nelson, Prentice Hall, **2003**, ISBN#0131008285.

*Organic Chemistry, by Bruice, 3<sup>rd</sup> Edition, Molecular Modeling Workbook.* Paula Yukanis Bruice, Warren J. Hehre, Alan J. Shusterman, and Janet E. Nelson, Prentice Hall, **2001**, ISBN#0130320269.

*The Molecular Modeling Workbook to Wade's Organic Chemistry.* Warren J. Hehre, Alan J. Shusterman, and Janet E. Nelson, Prentice Hall, **2000**, ISBN#0130304328.

*The Molecular Modeling Workbook for Organic Chemistry.* Warren J. Hehre, Alan J. Shusterman, and Janet E. Nelson, Wavefunction, Inc., **1998**, ISBN # 1-890661-06-6.

*A Guide to Graphical Models and Graphical Modeling in Spartan.* Warren J. Hehre, Janet E. Nelson, and W. Wayne Huang, Wavefunction, Inc., **1997**, ISBN # 1-890661-01-5.

*Introducing Molecular Modeling into the Undergraduate Chemistry Curriculum.* W. J. Hehre and J. E. Nelson, Wavefunction, Inc., **1997**, ISBN # 0-9643495-8-2.

*Using Molecular Modeling to Enhance Visualization in the Organic Chemistry Classroom.* Janet E. Nelson, L. Kraig Steffen, and Stewart A. Williamson. *The Chemical Educator*, **1996**, (1)6S 1430-4171 (97)06074-3. URL: <http://journals.springer-ny.com/chedr/>.

*Creating Simple, Low Cost, Animations for Organic Chemistry Instruction.* L. Kraig Steffen, Michael Gill, J. Gundersen, and Janet E. Nelson, *The Chemical Educator*, **1996**, 1(5)S 1430-4171(96)05058-3. URL: <http://journals.springer-ny.com/chedr/>.

*Isolation of an Extremely Labile Dihydrogen Complex, Cr(CO)3(PPri3)2(H2), Containing the Shortest Ligated H-H Bond.* Gregory J. Kubas, Janet E. Nelson, Jeffrey C. Bryan, Juergen Eckert, Linda Wisniewski, and Kirt Zilm, *Inorganic Chemistry* **1994**, 33, 2954.

*Synthesis and Characterization of Thioaldehyde-Hydride Derivatives of Permethyltantalocene. Investigations of Their Equilibrium with Thiolates and the Stereochemistry of Alkyl Migrations from Sulfur to Tantalum.* Janet E. Nelson, Gerard Parkin, and John E. Bercaw, *Organometallics* **1992**, 11, 2181.

*The Structure of Permethyltantalocenephenethylthioaldehyde Hydride, (n<sup>5</sup>-C<sub>5</sub>Me<sub>5</sub>)<sub>2</sub>Ta(n<sup>2</sup>-SCHCH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)H.* Janet E. Nelson, Lawrence Henling, Richard Marsh, and John E. Bercaw, *Acta. Cryst.* **1992**, C48, 1023.

*Synthesis, Characterization, and X-Ray Structure of {[K(THF)<sub>2</sub>]<sub>2</sub>[U(NH-2,6-i-Pr<sub>2</sub>C<sub>6</sub>H<sub>3</sub>)<sub>5</sub>]}•THF.* Janet E. Nelson, David L. Clark, Carol J. Burns, and Alfred P. Sattelberger, *Inorganic Chemistry* **1992**, 31, 1973.

*"Formation of B-CH Agostic Alkenylzirconocene Complexes" and "Reactions of B-Agostic Alkenylzirconocene Complexes" Commentaries.* Janet E. Nelson and John E. Bercaw, *Chemtracts, Analytical, Physical, and Inorganic Chemistry* **1990**, 2, 308-382.

*An Unexpected Isotope Scrambling Process Accompanies Hydrozirconation of Styrene.* Janet E. Nelson, John E. Bercaw, and Jay A. Labinger, *Organometallics* **1989**, 8, 2484-2486.

*Synthesis and Metal-Complexing Ability of m-Xylenebis(B-diketones).* Andrew W. Maverick, Daniel P. Martone, Julie R. Bradbury, and Janet E. Nelson, *Polyhedron* **1989**, 8, 1549-1556.

*Crystal Structure of p-Iodobenzoic Acid.* Russell G. Baughman and Janet E. Nelson, *Acta. Cryst.* **1984**, C40, 204-206.

## Presentations

*The Pacific Coast Energy Research Initiative (PCERI)*. Janet E. Nelson, workshop leader, Oregon State Research Day at NETL, Albany, Oregon, October 2013.

*Establishment of the URS NETL-RUA Research Awards*. Janet E. Nelson, NETL-RUA Spring Meeting, Morgantown, West Virginia, March 2013.

*The NETL-RUA Grid Technology Collaborative (GTC): A Next Generation Power Converter*. Janet E. Nelson, panel member, Electric Power Industry Conference (EPIC), Pittsburg, Pennsylvania, November 2012.

*Renewables*. Janet E. Nelson, panel moderator, Sustainable Energy Forum, Youngstown State University, Youngstown, Ohio, June 2011.

*NETL Hydrogen Fueling Platforms in West Virginia*. Janet E. Nelson, West Virginia Clean State Program meeting at the State Capitol, Charleston, West Virginia October 2010.

*NETL Hydrogen RDT&E Platform*. Janet E. Nelson, Hydrogen Economy Action Summit III at the Energy & Environmental Research Center (EERC), Grand Forks, North Dakota September 2010.

*Biofuels*. Janet E. Nelson, panel moderator, Sustainable Energy Forum, Youngstown State University, Youngstown, Ohio, June 2010.

*Biopower: Innovations and Feedstocks Panel*. Janet E. Nelson, Charles Taylor, Tom Allnut, David Haberman, Gerry Groenewold, 2010 Renewable Energy World Conference & Expo North America, Austin, TX, February 2010.

*The Algae Biofuel Value Chain*. Janet E. Nelson, A Webinar for Technology Evaluation in the Biofuels Market, Parsons Corporation, December 2009.

*Biomass Conversion to Liquid Fuels*. Janet E. Nelson, panel moderator, Sustainable Energy Forum, Youngstown State University, Youngstown, Ohio, June 2009.

*Synthetic Biology for Advanced Biofuels, Biobased Chemicals*. Janet E. Nelson, Karl Sanford, Stephen Del Cardayre, A Webinar for Reporters, Biotechnology Industry Organization, February 2009.

*Roundtable on the Future of the Chemical Industry*. Janet E. Nelson, panel moderator, Elevance Renewable Sciences, Bolingbrook, IL, February 2009.

*The Biological Revolution from Genetics to Synthetic Biology*. Janet E. Nelson, Forum for Graduate Students in Science, Technology, and Health Policy, National Academy of Sciences, January 2009.

*Economic Challenges and Impacts in the Commercialization of Synthetic Biology*. Janet E. Nelson, Challenges and Opportunities in the Emerging Field of Synthetic Biology Planning Meeting, Bellagio, Italy, October 2008.

*Emergence of Professional Organizations in Synthetic Biology*. Janet E. Nelson, Synthetic Biology 4.0, Hong Kong, China, October 2008.

*Synthetic Biology: Can We Make Biology Easy to Engineer?* Janet E. Nelson, session moderator, The Pacific Rim Summit on Industrial Biotechnology & Bioenergy, Vancouver, BC, Canada, September 2008.

*Synthetic Processes*. Janet E. Nelson, session chair, 12th Annual Green Chemistry and Engineering Conference, Washington, D.C., June 2008.

*Science Policy and the National Academies*. Janet E. Nelson, ComSci Presentation, Washington, D.C., May 2007.

*Reorganization Activities at the NIH Center for Scientific Review*. Janet E. Nelson, Metals in Biology Gordon Research Conference, Ventura, CA, January 2004.

*Proposal Preparation Workshops and Presentations on Programs of the PRF*. Janet E. Nelson, 2000 ACS Great Lakes Regional Meeting, Fargo, ND; 2000 NSF Inorganic Workshops, Elkridge, MD; 1999 ACS Northeast Regional Meeting, Potsdam, NY; 1999 Midwest Association of Chemistry Teachers in Liberal Arts Colleges annual meeting, Rock Island, IL; 1999 NSF Inorganic Workshops, Elkridge, MD

*Presentations on Programs of the PRF*. Janet E. Nelson, Site visits to Kansas University, Macalester College, Barnard College, Columbia University, Trinity University, Clarkson University, Syracuse University, Brown University, Providence College; and Texas A&M to meet with PRF grantees. (1998-2000)

*Molecular Modeling in Organic Chemistry*. Janet E. Nelson, Invited Seminar Speaker, Purdue U., October 1998.

*What Molecules Look Like*. Janet E. Nelson, Warren J. Hehre, ACS National Meeting, San Francisco, April 1997.

*Introducing Molecular Modeling into the Undergraduate Chemistry Curriculum.* Janet E. Nelson and Warren J. Hehre. Presented at: ACS National Meeting, Orlando, Florida, July 1996; PKAL F21 National Meeting, October 1996; University of California, Hayward, California, December 1996; Fairfield University, Fairfield, Connecticut January 1997; St. Mary's College, Notre Dame, Indiana, January 1997; Macalester College, St. Paul, Minnesota, January 1997; University of California, Fullerton, California, January 1997; ACS National Meeting, San Francisco, California, April 1997; U Mass Amherst, Amherst, Massachusetts, June 1997; University of California, Hayward, California, July 1997; CalPoly, Pomona, California, July 1997; Hendrix College, Conway, Arkansas, July 1997; University of Richmond, Richmond, Virginia, July 1997; University of Seattle, Seattle, Washington, August 1997; Elizabethtown College, Elizabethtown, Pennsylvania, October 1997; Washington University, St. Louis, Missouri, October 1997; PKAL F21 national meeting, November 1997.

*Spartan in the Organic Curriculum.* Janet E. Nelson, Molecular Modeling Workshop, U. of Mass., January 1996.

*Molecular Modeling in the Organic Chemistry Curriculum at Middlebury College.* Janet E. Nelson, Stewart A. Williamson. 1995 International Chemical Congress of Pacific Basin Societies, Honolulu, HI December 1995. Abstract #1806.

*Incorporation of Portable High Vacuum Line Systems into the Undergraduate Chemistry Curriculum.* Janet E. Nelson, Mark Pearson, Jonathan Gilbert. 28th Great Lakes Regional Meeting of the American Chemical Society, LaCrosse, WI, June 1995.

*Development of Advanced Laboratory Experiments: Synthesis of Very Air-Sensitive Compounds Using High Vacuum Systems.* Janet E. Nelson. Gordon Conference on Innovations in the Teaching of College Chemistry, Oxnard, January 1994.

*Synthesis, Characterization, and Spectroscopic Investigations of  $\text{Cr}(\text{CO})_3(\text{PCy}_3)_2(\eta^2\text{-H}_2)$ .* Janet E. Nelson, J. Eckert, and Gregory Kubas. 203rd ACS National Meeting, San Francisco, April 1992. Abstract INOR #450.

*Stereochemical Investigations of  $\alpha$ -Alkyl Migrations from Sulfur to Tantalum.* Janet E. Nelson and John E. Bercaw. ACS Western Regional Meeting, San Francisco, October 1990.

*An Unexpected Isotope Scrambling Process Accompanies Hydrozirconation of Styrene.* Janet E. Nelson, John E. Bercaw, and Jay A. Labinger. 1989 ACS Western Regional Meeting, Pasadena, October 1989.

*Synthesis and Reactivity of Permethyltantalocene Thiolate, Thioaldehyde, and Sulfido Derivatives.* Janet E. Nelson and John E. Bercaw. 196th ACS National Meeting, Los Angeles, September 1988. Abstract INOR #166.