Curriculum Vitae

Nancy Scott Burke Williams

Associate Professor of Chemistry

W. M. Keck Science Department of Claremont McKenna, Scripps, and Pitzer Colleges,
925 N. Mills Avenue, Claremont, CA 91711 (909) 607-1603 nwilliams@kecksci.claremont.edu

Education and Job Experience:

2009-Present: Associate Professor of Chemistry, Keck Science Department of The Claremont Colleges (Pitzer, Scripps, and Claremont McKenna Colleges).

2009-2010: Visiting Scientist, Rutgers.

Spring 2007: Visiting Scientist, University of Washington.

2003-2009: Assistant Professor of Chemistry, Joint Science Department of The Claremont Colleges (Pitzer, Scripps, and Claremont McKenna Colleges).

2001-2003: Postdoctoral Fellow, UNC Chapel Hill.
Supervisor: Professor Maurice Brookhart
Mechanistic and kinetic studies of the interactions of palladium ethylene polymerization catalysts with other potential comonomers. Applied mechanistic organometallic chemistry.

2000-2001: NSF-NATO Postdoctoral Fellow, Universiteit Utrecht, Utrecht, The Netherlands.
Supervisor: Prof. dr. Gerard ridder van Koten
Synthesis of novel P-chirogenic PCP pincer complexes, preparation of derivative potential catalysts, and their application to asymmetric catalytic C-C bond formation reactions. Synthetic organometallic chemistry.

1995-2001: Graduate Researcher, University of Washington, Seattle
M.S. and Ph.D. in Inorganic Chemistry
Supervisor: Professor Karen I. Goldberg
Studies of the reactivities of organometallic complexes containing Pt(IV)-oxygen bonds.
Mechanistic organometallic chemistry.

1994-1995: Undergraduate Researcher, Harvey Mudd College, Claremont, CA.
Supervisor: Professor Mitsuru Kubota
Investigations of unexpected reductive elimination reactions at Pd(II)-a mechanistic study.

1991-1995: Undergraduate Student, Harvey Mudd College, Claremont, CA.
B. S. in Chemistry

Affiliations and Awards:

2013-present: National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)
2013-present: Out in STEM (oSTEM)
2013-present: Volunteer with the Leadership LAB of the LA LGBT Center on prejudice reduction
2006: Founding Member of IONiC and continuing Leadership Council member.
2003: Camille and Henry Dreyfus Faculty Start-up Awardee
2001: NSF-NATO Postdoctoral Fellow
1995-present: ACS member

Courses Offered: *(those offered for the first time since tenure in italics)*

General Chemistry (Chem 14)

An introduction to the chemical sciences with emphasis on physical and inorganic chemistry. Second of a two-semester sequence.

General Chemistry (Chem 15)

An introduction to the chemical sciences with emphasis on physical and inorganic chemistry. Second of a two-semester sequence.

Organic Chemistry (Chem 116L)

An introduction to the chemistry of carbon compounds. First of a two semester sequence.

Organic Chemistry Laboratory (Chem 116L and 117L)

Companion to Chem 116L and 117L (the second semester of the sequence)

Advanced Laboratory in Chemistry (Chem 126 L and 127L)

A combined lecture and laboratory course which covers aspects of inorganic, analytical, and physical chemistry. Second of a two-semester sequence.

Inorganic Chemistry (Chem 128)

A standard one-semester lecture course in inorganic chemistry, with special emphasis on molecular orbital theory and the chemistry of transition metal compounds.

Inorganic Synthesis (Chem 130)

An elective half-course which teaches basic synthetic techniques of inorganic chemistry, including the handling of air sensitive compounds and glovebox work.

Accelerated Integrated Science Sequence (AISS 01, 02)

A course that unifies and integrates introductory chemistry, physics, and biology into an accelerated, triple-team-taught lecture and lab course.

First Year Humanities Seminar: The Effecting of All Things Possible (FHS)

An introductory humanities course for CMC students. My offering, The Effecting of All Things Possible, investigated the changes in Northwest European thought in the 17th century, and the ways in which those ideas affect our culture and world today.

Publications Since Tenure (Peer Review Unless Otherwise Noted):

8. Smith, S. A.; Collins, S.; Eppley, H. E.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Nataro, C.; Reisner, B. A.; Stewart, J. L. Watson, L. A.; Williams, B. S. "VIPEr: An Online Academic Resource Enhancing Undergraduate Research," CUR Quarterly, Web Vignette: Winter, 2013. Vol. 34, No. 2. Editor Reviewed. http://www.cur.org/assets/1/23/Winter2013_v34.2_vignettes4.PDF

7. Reisner, B.A.; Stewart, J.L., Williams, B.S.; Goj, L. A.; Holland, P. L; Johnson, A. R.; Eppley, H. A. "JCE VIPEr: An Inorganic Teaching and Learning Community Learning Objects in Organometallic Chemistry." *J. Chem. Educ.* **2012**, *87*, 185-187. Editor Reviewed. http://pubs.acs.org/doi/abs/10.1021/ed200200w

6. Jamieson, E. R.; Eppley, H. E.; Geselbracht, M. J.; Johnson, A. R.; Reisner, B. A.; Smith, S. A.; Stewart, J. L.; Watson, L. A.; Williams, B. S. "Inorganic Chemistry and IONiC: An Online Community Bringing Cutting-Edge Research into the Classroom" *Inorg. Chem.* **2011**, *50*, 5849-5854. http://pubs.acs.org/doi/abs/10.1021/ic2006919

5. Eppley, H. J; Geselbracht, M. J.; Jamieson, E. R; Johnson, A. R.; Reisner, B. A.; Smith, S. A.; Stewart, J. L.; Watson, L. A.; Williams, B. S. "Building an Online Teaching Community: An Evolving Tale of Communication, Collaboration and Chemistry" ACS Symposium Series: *Enhancing Learning with Online Resources, Social Networking, and Digital Libraries*, Belford, R.; Moore, J.; Pence, H. (Eds.), American Chemical Society: Washington, D. C.; Chapter 16, pp. 309-330, **2010**. Editor Reviewed http://pubs.acs.org/doi/abs/10.1021/bk-2010-1060.ch016

4. Williams, B. S. "Sceptical Chymists Online: How the Practice, Teaching, and Learning of Science Will be Affected by Web 2.0" ACS Symposium Series: *Enhancing Learning with Online Resources, Social Networking, and Digital Libraries*, Belford, R.; Moore, J.; Pence, H. (Eds.), American Chemical Society: Washington, D. C.; Chapter 6, pp. 95–114, **2010**. Editor Reviewed http://pubs.acs.org/doi/abs/10.1021/bk-2010-1060.ch006

3. "Visible Teaching: Moving from a Solitary Practice to a Community Endeavor" Reisner, B. A.; Williams, B. S. *J. Chem. Educ.* **2010**, *87*, 252-253. http://pubs.acs.org/doi/abs/10.1021/ed800104t

2. "IONiC: A Cyber-Enabled Community of Practice for Improving Inorganic Chemical Education" Benatan, E.; Eppley, H. J.; Geselbracht, M. J.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Watson, L.; Williams, B. S. *J. Chem. Educ.* **2009**, *86*, 123. http://pubs.acs.org/doi/abs/10.1021/ed086p123.2

1. "Come for the Content, Stay for the Community" Benatan, E.; Dene, J.; Eppley, H.; Geselbracht, M.; Jamieson, E.; Johnson, A.; Reisner, B.; Stewart, J.; Watson, L.; Williams, B. S. *Academic Commons* **2009**, September. Invited Paper: Not Peer Reviewed. http://www.academiccommons.org/commons/essay/come-content-stay-community

Publications Prior to Tenure (All Peer Reviewed):

7. "*JCE* VIPEr: An Inorganic Teaching and Learning Community" Benatan, E.; Dene, J.; Eppley, H. J.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Watson, L. A.; Williams, B. S. *J. Chem. Educ.* **2009,** *86*, 766. http://pubs.acs.org/doi/abs/10.1021/ed086p766

6. "Reversible carbonylation of an [NCN]PtMe Pincer Complex and Direct Evidence of Migratory Deinsertion" Scheuermann, M. L.[1]; Rheingold, A. L.; Williams, B. S. *Organometallics* **2009**, *28* 1613-1615. http://pubs.acs.org/doi/abs/10.1021/om900050p

5. "Reductive Elimination and Dissociative β-Hydride Abstraction from Pt(IV) Hydroxide and Methoxide Complexes" Smythe, N. A.; Grice, K. A.; Williams, B. S.; Goldberg, K. I. *Organometallics* **2009**, *28*, 277–288. http://pubs.acs.org/doi/abs/10.1021/om800905q

4. "A Mechanistic Study of Competitive sp^3-sp^3 and sp^3-sp^2 Carbon-Carbon Reductive Elimination from a Platinum (IV) Center and the Isolation of a C-C Agostic σ-Complex" Madison, B. L.;[1] Thyme, S. B.;[1] Keene, S.;[1] Williams, B. S. *J. Am. Chem. Soc.* **2007**, *129*, 5938-9. (Errata on p. 14523) http://pubs.acs.org/doi/abs/10.1021/ja066195d

3. "Mechanistic information on the reductive elimination of cationic trimethylplatinum(IV) complexes to form carbon-carbon bonds." Procelewska, J.; Zahl, A.; Liehr, G.; van Eldik, R.; Smythe, N. A.; Williams, B. S.; Goldberg, K. I. *Inorg. Chem.* **2005**, *44*, 7732-42. http://pubs.acs.org/doi/abs/10.1021/ic050478+

2. "Reactions of Vinyl Acetate and Vinyl Trifluoroacetate With Cationic Diimine Pd(II) and Ni(II) Alkyl Complexes: Identification of Problems Connected With Copolymerizations of These Monomers with Ethylene" Williams, B. S.; Leatherman, M. D.; White, P. S.; Brookhart, M. *J. Am. Chem. Soc.*, **2005**, *127*, 5132-46. http://pubs.acs.org/doi/abs/10.1021/ja045969s

1. "Novel P-Stereogenic PCP Pincer-Aryl Ruthenium(II) Complexes and Their Use in the Asymmetric Hydrogen Transfer Reaction of Acetophenone" Medici, S.; Gagliardo, M.; Williams, B. Scott; Chase, P. A.; Gladiali, S.; Lutz, M.; Spek, A. L.; van Klink, G. P. M.; van Koten, G. *Helv. Chim. Acta* **2005**, *88*, 694-704. http://onlinelibrary.wiley.com/doi/10.1002/hlca.200590048/abstract

[1] Undergraduate co-author

Publications Prior to Faculty Appointment

5. "Synthesis and reactivity of a ferrocene-derived PCP-pincer ligand" Farrington, E. J.; Martinez V. E.; Williams, B. S.; van Koten, G.; Brown, J. M . *Chem. Commun.* **2002**, 308-309.

4. "Construction of Supported Organometallics Using Cycloplatinated Arylamine Ligands" Meijer, M. D.; Kleij, A. W.; Williams, B. S.; Ellis, D.; Lutz, M.; Spek, A. L.; van Klink, G. P. M.; van Koten, G. *Organometallics* **2002,** *21*, 264-271.

3. "Development of the first P-stereogenic PCP pincer ligands, their metallation by palladium and platinum, and preliminary catalysis" Williams, B. S.; Dani, P.; Lutz, M.; Spek, A. L.; van Koten, G. *Helv. Chim. Acta* **2001**, *84***,** 3519-3530.

2. "Studies of Reductive Elimination Reactions To Form Carbon-Oxygen Bonds from Pt(IV) Complexes" Williams, B. S.; Goldberg, K. I . *J. Am. Chem. Soc.* **2001**, *123*, 2576-2587.

1. "Direct Observation of C-O Reductive Elimination from Pt(IV)" Williams, B. S.; Holland, A. W; Goldberg, K. I . *J. Am. Chem. Soc.* **1999**, *121*, 252-253.

Workshops Co-Directed

2015 VIPEr Workshop: Heterogeneous Catalysis at the Frontiers of Inorganic Chemistry
Bentley, A.; Johnson, A. R.; Williams, N. B. S.; Nataro, C; Stewart, J. L.; Watson, L. A. *(Seattle, WA, June-July 2015)*

2014 VIPEr Workshop: Bioinorganic Applications of Coordination Chemistry
Eppley, H. J.; Smith, S. R; Jamieson, E. R.; Johnson, A. R.; Williams, N. B. S., Evanston, IL, July 2014

cCWCS/VIPEr Workshop: Inorganic Chemistry at the Frontiers of Catalysis
Workshop Leaders: Reisner, B. A.; Smith, S. R.; Stewart, J. S.; Williams, B. S.; Eppley, H. J. Chapel Hill, NC, July 2012.

AALAC Inorganic Chemistry and Online Community Workshop
Workshop Leaders: Jamieson, E. R.; Reisner, B, A.; Johnson, A. R.; Geselbracht, M. J.; Stewart, J. S.; Eppley, H. J.; Williams, B. S. Two Virtual Workshops in June, face-to-face conference Smith College, June, 2011.

GLCA Inorganic Chemistry and Online Community Workshop
Workshop Leaders: Stewart, J.S., Eppley, H. J., Watson, L.A.; Williams, B.S. Two Virtual Workshops in April, face-to-face conference Hope College, July, 2010.

Presentations and Conferences Attended Since Tenure (Presenter(s) Underlined)

251st American Chemical Society National Meeting, San Diego, CA, March 2016

Oral Presentations:

"Two decades of lessons in controlling selectivity in Pt (IV) reductive elimination, and new attempts to increase activity in Pt (II) oxidative addition" Williams, N. S. B.; Van Vleet, M.[1]; Liberman-Martin, A. L.[1]; Mordvedt, T.[1]; Watson, L. A.; Cave, R.

"4-Pyridonate Ligands: A p-basic Approach to Cleaving C-H Bonds" Williams, N. S. B.; Mortvedt, T.[1]; Nesbitt, E.[1]; Sullivan, A.[1]; Watson, L. A.

Poster Presentation:

"Expanding the frontiers of inorganic chemistry" Eppley, H. J.; Nataro, C.; Bentley, A. K.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Smith, S. R.; Watson, L. A.; Williams, N. S. B

249th American Chemical Society National Meeting, Denver, CO, March 2015

Poster Presentation:

"Mg deficient IONiC/VIPEr: An online community for inorganic chemists" Bentley, A. Eppley, H. J.; Jamison, E. R.; Johnson, A. R.; Nataro, C.; Reisner, B. A.; Smith, S. R.; Stewart, J. L.; Williams, N. B. S.; Watson, L. A.

Oral Presentation:

"VIPEr faculty development workshops: Cutting edge content development and sharing pedagogical best practices" Eppley, H. J.; Johnson, A. R.; Williams, N. B. S.

248th American Chemical Society National Meeting, San Francisco, CA, August 2014

2014 BCCE (Biennial Conference on Chemical Education), Allendale, MI, July-August 2014

Helped direct workshops on VIPEr, and attended conference

2014 Gordon Conference in Organometallic Chemistry, Newport, RI, July 2014.

Poster Presentation:

"DFT Investigations of Ligand Environment on Non-Polar OA/RE Reactions at Platinum Group Metals" Van Vleet, M.[1], Cave, R., Watson, L. A.; Liberman-Martin, A. L.[1], Williams, N. S. B.

[1] Undergraduate co-author

97th Canadian Chemistry Conference, Vancouver, B. C., Canada, June 2014

Oral Presentation:

"IONiC: Synergistic Use of Face-to-face and Virtual Networking to Transform Chemical Education through Collaboration" Smith, S. R. Williams, N. B. S

247th American Chemical Society National Meeting, Dallas, TX, March 2014

Poster Presentations:

"Ride the snake: The online, inorganic community of IONiC/VIPEr" Nataro, C.; Smith, S. R.; Collins, S. N.; Eppley, H. J.; Jamison, E.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Williams, N. B. S.; Watson, L. A.

"IONiC/VIPEr at five: Developing a model network for sharing pedagogical resources" Nataro, C.; Smith, S. R.; Collins, S. N.; Eppley, H. J.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Williams, N. B. S.; Watson, L. A.

CENTC (Center for Enabling New Technology through Catalysis) Summer School, Seattle, WA, July 2013, Conferee

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Above: As Nancy Scott Burke Williams Below: As Burke Scott Williams

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245th American Chemical Society National Meeting, New Orleans, LA, April 2013

Oral Presentation:

"Factors controlling C-C reductive elimination from two isomeric platinum(IV) complexes" Van Vleet, M. J.;[1] Cave, R. J.; Williams, B. S.

Poster Presentation:

"IONiC/VIPEr at five: Developing a model network for sharing pedagogical resources" Nataro, C.; Smith, S. R.; Collins, S. N.; Eppley, H. J.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Williams, B. S.; Watson, L. A.

Invited Seminar at CMC Board of Trustees Retreat

"IONiC: the Interactive Online Network of Inorganic Chemists and VIPEr: the Virtual Inorganic Pedagogical Electronic Resource. Leveraging the Social Web to Develop High Level Teaching Resources and to Bring Cutting-Edge Chemical Literature Into the Classroom" Ojai CA, March 2013.

Invited Seminar in Scripps College Hampton Room Series

"Sceptical Chymists Online: What the Internet Will Mean for the Practice, Teaching, and Learning of Science" Scripps College, Claremont, CA, October 2012.

[1] Undergraduate co-author

Enhancing Teaching & Learning Chemistry With Natural Bond Orbitals, West Bend, WI, August 2012: conferee.

Invited Seminar at Cal State University, Northridge

"Off to the Races: Using Pt(IV) complexes to try to understand what controls C-C reductive elimination rates" Northridge, CA, May 2012.

243rd American Chemical Society National Meeting, San Diego, CA, March 2012

"VIPEr: Adapt and adopt classroom content from the frontiers of inorganic chemistry." Eppley, H. J.; Nataro, C.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Smith, S.; Stewart, J. L.; Watson, L. A.; Williams, B. S.

2011 Gordon Conference in Organometallic Chemistry, Newport, RI, July 2011: conferee.

241st American Chemical Society National Meeting, Anaheim, March 2011

Oral Presentation:

"We're all in this sandbox together: Learning to share in our teaching of inorganic chemistry through Visible Teaching" Reisner, B. A.; Stewart, J. L.; Williams, B. S.

Poster Presentation:

"Highlighting the frontiers of research in the undergraduate chemistry classroom" Geselbracht, M. J.; Eppley, H. J.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Smith, S. R.; Stewart, J. L.; Watson, L. A.; Williams, B. S.

Invited Seminar at Cal State University, Long Beach

"Off to the Races: Using Pt(IV) complexes to try to understand what controls C-C reductive elimination rates" Long Beach, CA, September 2010.

2010 Gordon Conference in Organometallic Chemistry, Newport, RI, July 2010.

Poster Presentation:

"An Inversion of Reductive Elimination Reactivity from Two Isomeric Pt(IV) Complexes" Liberman-Martin, A. L.[1]; Williams, B. S.

[1] Undergraduate co-author

MADCP 2010, June 2010, Redding, PA

Poster Presentation:

"The Virtual Inorganic Pedagogical Electronic Resource: A community for teachers and students of inorganic chemistry" Benatan, E.; Dene, J.; Eppley, H. J.; Geselbracht, M. G.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Watson, L. A., Williams, B. S.

Oral Presentation:

"The Virtual Inorganic Pedagogical Electronic Resource and the Interactive Online Network of Inorganic Chemists" Williams, B. S.

239th American Chemical Society National Meeting, San Francisco, March 2010
Students brought to meeting: Allegra Liberman-Martin (Scripps '10)

Poster Presentations:

"VIPEr: Virtual Inorganic Pedagogical Electronic resource" Benatan, E.; Dene, J.; Eppley, H. J.; Geselbracht, M. G.; Jamieson, E. R.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Watson, L. A., Williams, B. S.

"An Inversion of Reductive Elimination Reactivity from Two Isomeric Pt (IV) Complexes" Liberman-Martin, A. L.[1]; Williams, B. S.

EDUCAUSE 2009, November 2009, Denver, CO

Oral Presentation:

"Blurring the Line Between Repository and Social Network" Benatan, E., Williams, B. S.

Invited Seminar at James Madison University

"Platinum as a Matchmaker: Using platinum pincer complexes in the making and breaking of carbon-carbon bonds" Harrisonburg, VA, October 2009.

238th American Chemical Society National Meeting, Washington, D. C., August 2009

Poster Presentation:

"VIPEr: Virtual Inorganic Pedagogical Electronic resource" Reisner, B. A.; Benatan, E.; Dene, J.; Eppley, H. J.; Geselbracht, M. G.; Jamieson, E. R.; Johnson, A. R.; Stewart, J. L.; Watson, L. A.; Williams, B. S.

Presentations and Conferences Attended Prior to Tenure (Presenter(s) Underlined)

237th American Chemical Society National Meeting, Salt Lake City, March 2009
Students brought to meeting: Justin Conary (Pitzer '09), Eva Smith (Scripps '09).

Poster presentations:

"VIPEr: Virtual Inorganic Pedagogical Electronic Resource." Reisner, B. A.; Benatan, E.; Eppley, H. J.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Stewart, J. L.; Watson, L. A.; Williams, B. S.

"*Mechanistic Studies of Carbonyl Insertion at a κ^3-[NCN]PtMe Complex*
Smith, E., B.[1]; Williams, B. S.

Oral Presentation:

"*How Closer Online Ties to Colleagues Can Change an Inorganic Chemistry Course: The Long, Spikey Tail of VIPEr*" Williams, B. S.

2008 Gordon Conference in Organometallic Chemistry, Newport, RI, July 2008.

Poster presentation:

"Mechanistic Investigations of C-C Bond Formation Processes
Involving an [NCN]PtMe "Pincer" Complex" Scheuermann, M. L.[1]; Madison, B. L.[1]; Williams, B. S.

NITLE Meeting, "Virtual Collaboration Plenary Workshop", Portland, OR, June 2008.

Benatan, E., Eppley, H. J., Geselbracht, M. J., Johnson, A. R., Reisner, B. A. and Williams, B. S. "IONiC: A Cyber-Enabled Community of Practice for Improving Inorganic Chemical Education." *ConfChem Conference* [Online] April-June 2008, http://www.ched-ccce.org/confchem/2008/b/P4.html (accessed April 21, 2008). Invited presentation.

235th American Chemical Society National Meeting, New Orleans, April 2008
Students brought to meeting: Margaret Scheuermann (Scripps '08).

Poster presentations:

"*IONiC: Interactive online network of inorganic chemists*" Eppley, H. J.; Geselbracht, M. J.; Johnson, A. R.; Reisner, B. A.; Stewart, J.; Watson, L. A.; Williams, B. S.

"*Insertion and isomerization reactions involving (NCN)PtMe and carbon monoxide*", Scheuermann, M. L.[1]; Williams, B. S.

[1] Undergraduate co-author

Oral Presentation:

"*Doing mechanistic organoplatinum chemistry with undergraduate researchers*", Williams, B. S.; Scheuermann, M. L. [1]; Madison, B. L. [1]

NITLE Meeting, "Scholarly Collaboration and Small Colleges in the Digital Age", Claremont, CA, January 2008 Johnson, A. R., Williams, B. S., Benatan, E., Eppley, H. J., Geselbracht, M. J., Reisner, B. A. Stewart, J. L., and Watson, L. A. "The IONiC/VIPEr Project". Invited presentation.

Valedictory and Symposium in Honor of the 65th Birthday of Professor doctor Gerard ridder van Koten, Utrecht, the Netherlands, September 2007.

233rd American Chemical Society National Meeting, Chicago, March 2007
Students brought to meeting: Sally Elsberry (Scripps '07), Brian Madison (CMC '07), Margaret Scheuermann (Scripps '08).

Poster presentations:

"Isolation of a C-C σ-Agostic Platinum Complex" Madison, B. L. [1]; Thyme, S. B. [1]; Williams, B. S.

"Mechanisms of Competitive C-C Reductive Elimination Reactions From Platinum." Scheuermann, M. L.[1]; Thyme, S. B.[1]; Williams, B. S.

2006 Gordon Conference in Organometallic Chemistry, Newport, RI, July 2006.

Poster presentation:

"A Tale of Two Couplings: Competitive sp^3-sp^3 and sp^2-sp^3 C-C Reductive Elimination" Williams, B. S.; Madison, B. L.[1]; Thyme, S. B.[1]; Keene, S.[1]

Oral presentation (poster selected as 1 of 6 to be given as oral presentation):

"A Tale of Two Couplings: Competitive sp^3-sp^3 and sp^2-sp^3 C-C Reductive Elimination" Williams, B. S.; Madison, B. L.[1]; Thyme, S. B.[1]; Keene, S.[1]

21st International Conference on Organometallic Chemistry
Vancouver, British Columbia, Canada, July 25-30 2004.

225th American Chemical Society National Meeting, San Diego, March 2003.
Students brought to meeting: James Hurdelbrink (CMC '05)

Extramural Grants Funded:

National Science Foundation, ROA to support sabbatical research, (*$55,643*) **2018**; *to be active from Jan 2018-Mar 2018.*

National Science Foundation, IUSE one of eleven faculty co-applicants as a member of IONiC, (*$1,110,260*) **2017-2022**; *currently active.*

National Science Foundation, TUES Type II, one of twelve faculty co-applicants as a member of IONiC, *($437,962*), **2013-2017**.

National Science Foundation MRI proposal for an NMR spectrometer for the Joint Science Department, co-PI, one of 7 major users. (*$483,521*) **2009**.

National Science Foundation, CCLI, one of seven faculty co-applicants as a member of IONiC, *($149,374*), **2007-2011**.

NITLE, Western Region Instructional Innovation Award, one of seven faculty co-applicants as a member of IONiC, ($*9,750*) **2007-2009**

Mellon Interinstitutional Faculty Career Enhancement Grant, one of six faculty co-applicants as a member of IONiC, *($26,100*), **2007-2009**.

American Chemical Society-Petroleum Research Fund, Type G(B) Grant:
($35,000), **2004-2006**

Dreyfus Foundation, Faculty Start-up Grant Program for Undergraduate Institutions:
($20,000), **2003-2008**

NSF-NATO Postdoctoral Fellowship (Universiteit Utrecht)
($33,000), **2000-2001**

Leadership Council of IONiC:

I am a founding member of IONiC (Interactive Online Network of Inorganic Chemists) and a continuing member of the Leadership Council of IONiC. With funding from NITLE and the NSF CCLI program, the Leadership Council developed and launched VIPEr (www.ionicviper.org), a virtual library to share course materials, curricular innovation, and ideas for teaching inorganic chemistry as well as a suite of social networking tools to foster a community of chemists who are interested in working collaboratively to improve inorganic chemistry teaching.

IONiC also hosts annual symposia highlighting undergraduate research at American Chemical Society National Meetings in the Division of Inorganic Chemistry (INOR) and holds annual workshops for faculty development in the field of inorganic chemistry, with special emphasis on technology in the classroom, the use of current literature in teaching, and using internet community as a way of improving pedagogy and the student experience.

Laboratory Senior Theses Supervised (Including current students)

James Hurdelbrink (CMC ’05, U. Seattle Law School)
-Attended ACS National Meeting

Bobby McCanne (Pitzer ’05, U. Michigan PhD program)

Mary Warden (Pitzer ’06, Rutgers PhD Program)

Summer Thyme (Scripps ’06, Ph.D. from U. Washington)
-Co-Author
-National Science Foundation Graduate Fellow

Brian Madison (CMC ’07, U. Texas, Austin A&M PhD Program)
-Presented at ACS National Meeting
-Co-Author
-Summer Research Student

Sally Elsberry (Scripps ’07, Shipping Industry)
-Attended ACS National Meeting
-Summer Research Student

Margaret Scheuermann (Scripps ’08, U. Washington PhD program)
-Presented at two ACS National Meetings
-Co-Author
-National Science Foundation Graduate Fellow

Andrew Chen (Pitzer, ‘09)
-Summer Research Student

Eva Smith (Scripps ’09, Cornell PhD Program in Materials Engineering)
-Presented at ACS National Meeting
-National Science Foundation Graduate Fellow

Justin Conary (Pitzer ’09)
-Attended ACS National Meeting

Allegra Liberman-Martin (Scripps ’10, U.C. Berkeley PhD Program)
-Presented at ACS National Meeting

Teija Mortvedt (Scripps ’11)
-Attended ACS National Meeting

Mary Van Vleet (HMC ’12, U. Wisconsin Ph.D. Program)

Haley Irving-Ruffing (Pitzer ’14)
-Summer Research Student

Sam Kahr (CMC ’14)
-Summer Research Student

Elizabeth Nesbitt (Scripps ’15)

Jackie Ketner (CMC ’16)
-Summer Research Student

Elisa Stephens (Pitzer ’18)
-Summer Research Student

Carly Roleder (CMC ’18)
-Summer Research Student

Evelyn Zepeda (Scripps ’18)
-Summer Research Student

Research students supervised who did not or have not yet completed a Senior Thesis in the lab (Including current students)

Aaron Bagheri (Pitzer ’17)

Rachel Odessey (Scripps ’17)

Faye Jones (Scripps ’15)

Taia Wu (Scripps ’15)

Adenike Idowu (Scripps ’13)

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