

Curriculum Vitae
Adam R. Johnson

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EDUCATION

Ph. D., Inorganic chemistry, Massachusetts Institute of Technology 1997
B. A., High Honors, Chemistry, Oberlin College 1993

PROFESSIONAL EXPERIENCE

Associate Professor of Chemistry, Harvey Mudd College 2005 - present
Visiting Associate in Chemistry, California Institute of Technology 2005 - 2006
Assistant Professor of Chemistry, Harvey Mudd College 1999 - 2005
NIH Postdoctoral Fellow, University of California, Berkeley 1997- 1999

HONORS AND AWARDS

National Institutes of Health Postdoctoral Fellow (1998-9), Sigma Xi, M. I. T. Chapter (1998), Phi Beta Kappa, Oberlin Chapter (1993), High Honors in Chemistry (1993), National Science Foundation Fellowship Honorable Mention (1993), Holmes Prize (1993), Dow Scholarship (1992-3), Jewett Prize (1991), National Science Foundation Summer Intern (1991)

PROFESSIONAL MEMBERSHIPS

Sigma Xi, Phi Beta Kappa, American Chemical Society

PROFESSIONAL ACTIVITIES

Founding member and Leadership Council of IONiC (www.ionicviper.org) 2006-present
(Interactive Online Network of Inorganic Chemists)
Summer Undergraduate Research Coordinator (NSF-REU) 2007-2010
President, Claremont Chapter of Sigma Xi 2003-2004
Vice President, Claremont Chapter of Sigma Xi 2002-2003
Reviewer, American Chemical Society, Petroleum Research Fund, National Science Foundation, Inorganic Chemistry, Organometallics, Journal of Chemical Education, Tetrahedron Letters 2001-present
Symposium organizer and Session chair, INOR, ACS National Meeting, New Orleans, 2008
Session Chair IATED, Barcelona, Spain, July 6-8, 2009

FUNDING OF UNDERGRADUATE RESEARCH PROGRAM

National Science Foundation, CHE-1012445, 2010-2013. "Asymmetric catalytic hydroamination of aminoallenes by chiral tantalum cyclopentadienyl-amide-alkoxide complexes," NSF-CHE-RUI, \$211,765

Baker Foundation, 2010-2011 "Synthesis of new ligands for asymmetric hydroamination." \$6000.

National Science Foundation, CHE-0615724, 2006-2009. "Synthesis, structural characterization, and catalytic hydroamination activity of chiral, tethered cyclopentadienyl-amide-alkoxide complexes of group IV and -V metals." NSF-CHE-RUI, \$203,000.

American Chemical Society, Petroleum Research Fund, 2006-2009. "Asymmetric catalytic hydroamination of aminoallenes and aminoalkenes by chiral titanium amide-alkoxide complexes." \$50,000.

Harvey Mudd College, Faculty Research Program, 2004-2005, "Catalytic Hydroamination of Aminoallenes With Chiral Titanium Complexes." \$2,653.

American Chemical Society, Petroleum Research Fund, 2002-2005. "Synthesis, Structure and Reaction Chemistry of Four-Coordinate Titanium Complexes with Chiral Amino Acid Derived Ligands." \$35,000.

Harvey Mudd College, Faculty Research Program, 2002-2003. "Synthesis, Structure and Reaction Chemistry of Titanium Complexes with Chiral Amino Acid Derived Ligands." \$6000.

Harvey Mudd College, Faculty Research Program, 2000-2001. "Ligand Design for Organometallic and Inorganic Coordination Complexes." \$10,000.

FUNDING OF HARVEY MUDD UNDERGRADUATE RESEARCH PROGRAM

National Science Foundation, CHE-1005253, 2010-2013. "Expanding Chemistry Research Opportunities for Undergraduates at Harvey Mudd College," NSF-CHE-REU, \$225,279. Karl A. Haushalter and Adam R. Johnson.

National Science Foundation, CHE-MRI, "MRI: Acquisition of a liquid chromatograph-ion trap mass spectrometer for undergraduate research and research training," Hal Van Ryswyk, Adam Johnson, Katherine Maloney, Gerald Van Hecke, David Vosburg, 2009-2011, \$234,310.

National Science Foundation, CHE-0648597, 2006-2009. "REU Site: Chemistry Research Experiences for Undergraduates at Harvey Mudd College," NSF-CHE-REU, \$180,617.

FUNDING FOR DEVELOPMENT OF IONIC

National Science Foundation, CCLI, "IONiC: A Cyber-Enabled Community of Practice for Improving Inorganic Chemical Education," Hilary Eppley (DePauw University, PI), Margret Geselbracht (Reed College), Adam Johnson (Harvey Mudd College), Barbara Reisner (James Madison University), Joanne Stewart (Hope College), Lori Watson (Earlham College) and Scott Williams (the Claremont Colleges Joint Science Department), 2008-2011, \$149,374.

NITLE, Western Region Instructional Innovation Award, "Project IONiC: Intellectual Online Network of Inorganic Chemists Building VIPer: Virtual Inorganic Pedagogical Electronic Resource," Margret Geselbracht and Ethan Benatan (co-PIs, Reed College), Hilary Eppley (DePauw University), Adam Johnson (Harvey Mudd College), Barbara Reisner (James Madison University), Joanne Stewart (Hope College), Lori Watson (Earlham College) and Scott Williams (The Claremont Colleges Joint Science Department), 2007-2008, \$9750.

Andrew W. Mellon foundation for Faculty Career Enhancement, Inter-Institutional Initiative (2007). "IONiC: A Cyber-Enabled Network of Inorganic Faculty." Adam R. Johnson (Harvey Mudd College, project coordinator), Hilary J. Eppley (DePauw University), Jordan L. Fantini (Denison University), Margret J. Geselbracht (Reed College), B. Scott Williams (Joint Science, Claremont Colleges), \$26,100.

Andrew W. Mellon foundation for Faculty Career Enhancement, Inter-Institutional Initiative (2006). "IC2I: The Inorganic Chemistry Curricular Initiative." Adam R. Johnson (Harvey Mudd College, project coordinator), Hilary J. Eppley (DePauw University), Jordan L. Fantini (Denison University), Margret J. Geselbracht (Reed College), James A. Larrabee (Middlebury College), B. Scott Williams (Joint Science, Claremont Colleges), \$19,908.

RESEARCH INTERESTS

- Design and synthesis of chiral amino acid-derived ligands
- Synthesis of chiral transition metal complexes
- Intramolecular catalytic hydroamination of aminoallenes
- The use of online communities for inorganic chemistry education

TEACHING EXPERIENCE

Harvey Mudd College. Humanities 1 (pilot writing course), Writing 001, Chemistry 19 (General Chemistry Intensive), Chemistry 21 (General Chemistry recitation and lecture), Chemistry 22 (General Chemistry recitation and lecture), Chemistry 24/25/26 (General Chemistry Laboratory), Chemistry 25I (Interdisciplinary laboratory), Chemistry 58 (Organic Laboratory), Chemistry 103 (Chemical Analysis), Chemistry 104 (Inorganic Chemistry), Chemistry 109 (Chemical Analysis Laboratory), Chemistry 110 (Inorganic Laboratory), Chemistry 163 (Advanced Physical Chemistry, Group Theory), Chemistry 165 (Organometallic Chemistry), Chemistry 168 (X-ray Crystallography), Chemistry 199 (Seminar Coordinator)

COLLEGE SERVICE

Writing Committee/Writing Course Development Committee	2007 - present
Faculty Athletic Representative (SCIAC athletic conference)	2006 - present
Presentation Days committee	1999 - 2004; 2010 – present
Strategic Vision Diversity Committee	2007 - 2008
Campus Life Committee (Chair)	2006 - 2008
Vice President and President, Claremont Chapter of Sigma Xi	2002-2004
Discriminatory Harassment Policy Committee	2002
Assessment Committee	2001-2004

FORMER RESEARCH GROUP MEMBERS (undergraduates)

(senior thesis students indicated by an asterisk)

1. Marja M. Fox* (Harvey Mudd College, 2000), "Design, Synthesis, and Characterization of a Tridentate, Aspartic Acid Derived Ligand for Use in Studies of Chiral Transition Metal Complexes," Ph. D. candidate, University of Illinois Urbana-Champaign.
2. David J. Slade* (Harvey Mudd College, 2000), "Synthesis of a Ligand Designed to Support an Early-Late Hetero-Bimetallic Complex," Ph. D., North Carolina State University.
3. Christine B. Yoo (Harvey Mudd College, 2002), "Chiral Transition Metal Complexes with Amino Acid Derived Ligands." Ph. D. candidate, University of Southern California.
4. Aaron D. Schuler* (Harvey Mudd College, 2001), "Ligand Design for Organometallic and Inorganic Coordination Complexes." Ph. D. candidate, University of Washington.
5. Gayle J. Pageau (Colby College, 2002), "Synthesis of an Early-Late Hetero-Bimetallic Complex." M. D./Ph. D. candidate, University of Massachusetts.
6. Catherine K. Ho* (Harvey Mudd College, 2002), "Synthesis and Investigation of Diastereomeric Titanium Complexes." College of Osteopathic Medicine of the Pacific.
7. Tamara E. Hanna* (Harvey Mudd College, 2002), "Investigation of the reaction chemistry of chiral titanium complexes." Ph. D. candidate, Cornell University.
8. Kendra E. Nelson* (Harvey Mudd College, 2003), "Stereoselective carbon-carbon bond formation by diastereomeric titanium complexes."
9. Claire Edwards* (Harvey Mudd College, 2003), "Synthesis of novel polymetallic complexes inspired by nitrogenase."
10. Elizabeth J. Duvall* (Albion College, 2003), "Reaction chemistry of chiral titanium complexes." Research associate at the University of Illinois, Urbana-Champaign.
11. Jessica H. Pikul (Reed College, '04), "Synthesis of di- and trisubstituted aminoallenes for catalytic hydroamination studies." Ph. D. candidate, University of Washington.
12. Jessica M. Hoover* (Harvey Mudd College, 2004), "Catalytic hydroamination of aminoallenes by chiral titanium amino-alcohol complexes." Ph. D. candidate, University of Washington.
13. Juliette R. Petersen* (Harvey Mudd College, 2004), "Catalytic hydroamination of aminoallenes by chiral titanium amino-alcohol complexes." Employed in the chemical industry.
14. Casey M. Jones (Reed College, '05), "Addition of dialkyl zinc reagents to aldehydes and ketones mediated by chiral titanium complexes." Ph. D. candidate, Princeton University.

15. Jordan R. Boye* (Harvey Mudd College, 2005), "Modeling the titanium catalyzed hydroamination of aminoallenes." Employed in the chemical industry.
16. Hanhan Li* (Harvey Mudd College, 2005), "Addition of dialkyl zinc reagents to aldehydes mediated by chiral titanium complexes." Medical school, Cleveland Clinic.
17. Sam Sobelman (Harvey Mudd College, 2008), "Addition of dialkyl zinc reagents to aldehydes mediated by chiral titanium complexes" Employed in the chemical industry
18. Amanda Hickman* (Harvey Mudd College, 2007), "Addition of dialkyl zinc reagents to aldehydes mediated by chiral titanium complexes." Ph. D. candidate, University of Michigan.
19. J. Andrew Kouzelos* (Harvey Mudd College, 2007), "Theoretical and Experimental Investigations of Titanium Amino-alcohol Complexes." Graduate studies, Michigan State.
20. Ryan J. Pakula (Harvey Mudd College, 2009), "Synthesis of amino acid derived ligands for asymmetric catalysis." Graduate studies, University of Wisconsin.
21. Dianna C. McAnnally-Linz (Agnes Scott College, 2008), "Synthesis and characterization of *N*-sulfonamide derivatives of chiral amino alcohols." Graduate studies, Notre Dame.
22. Minh T. Nguyen (University of La Verne, 2008), "Synthesis of chiral tridentate amine-diol ligands for asymmetric catalysis." Graduate studies, Cornell University.
23. Andrew H. Stewart* (Harvey Mudd College, 2008), "Synthesis Towards a Chiral Multidentate Tethered Ligand."
24. Camille M. Sultana (Harvey Mudd College, 2010), "Synthesis of multidentate chiral ligands for stereocontrol of asymmetric hydroamination." Graduate applicant.
25. Lauren D. Hughs* (Harvey Mudd College, 2009), "Tantalum cyclopentadienyl complexes as pre-catalysts for the intramolecular asymmetric hydroamination of aminoallenes."
26. Joanne E. Redford* (Harvey Mudd College, 2009), "Synthesis of a tethered ligand for the asymmetric hydroamination of aminoallenes." Graduate studies, University of Wisconsin.
27. Russell E. Klare (Harvey Mudd College, 2010), "Synthesis of amino alcohol ligands derived from L-phenylalanine and (*S*)-carvone."
28. Zara M. Seibel (Harvey Mudd College, 2011), "Synthesis of amino alcohol ligands derived from L-phenylalanine and L-menthone."
29. Katherine E. Near (Harvey Mudd College, 2010), "Catalytic intramolecular hydroamination of substituted aminoallenes by chiral titanium sulfonamide complexes." Graduate studies, Stanford.
30. Carolyn A. Heusser (Gordon College, 2010), "Catalytic intramolecular hydroamination of substituted aminoallenes by chiral titanium and tantalum amino-alcohol complexes." Graduate applicant
31. John P. Cvitkovic (Harvey Mudd College, 2011), "Synthesis of amino alcohol ligands derived from L-phenylalanine."
32. Tarun C. Naryan* (Harvey Mudd College, 2010), "New Ligands for Tantalum Hydroamination Catalysis." Graduate Studies, MIT.
33. Kyoung-Joo (Jenny) Park (Mt. San Antonia College, 2012), "Synthesis of a bidentate aniline as a co-ligand for asymmetric hydroamination catalysis."
34. Brette M. Chapin* (Harvey Mudd College, 2011), "Tantalum complexes of aminoalcohol ligands and sterically demanding co-ligands for asymmetric catalytic hydroamination of aminoallenes."
35. Kristine E. Fong* (Harvey Mudd College, 2011), "Amino-alcohol and Phenol Ligands for Asymmetric Hydroamination Catalysis."
36. Thomas R. Avila* (Harvey Mudd College, 2011), "Theoretical investigation of tantalum hydroamination catalysis."
37. Malous M. Kossarian (Harvey Mudd College, 2012), "Tantalum catalyzed intramolecular asymmetric hydroamination of aminoallenes."
38. Michelle C. Hansen* (Harvey Mudd College, 2011), "Catalytic intramolecular asymmetric hydroamination with tantalum complexes of amino alcohol ligands."

FORMER RESEARCH GROUP MEMBERS (other)

1. Jacob M. Plummer (Ph. D., organic chemistry, Notre Dame, currently in tenure-track position at Greenville College), "Synthesis of aminoallene substrates."

CURRENT RESEARCH GROUP MEMBERS

(senior thesis students indicated by an asterisk)

1. Nagiko Hara (Harvey Mudd College, 2012), "Catalytic intramolecular asymmetric hydroamination with niobium complexes of amino alcohol ligands."
2. Alex W. Kohn (Harvey Mudd College, 2013), "Synthesis and catalytic activity of phenylglycine derived ligands for asymmetric hydroamination of aminoallenes."
3. Alex R. Venning (St. Olaf College, 2012), "Use of electron withdrawing alcohol coligands to improve asymmetric hydroamination of aminoallenes."

FACULTY PUBLICATIONS (Undergraduate co-authors are denoted by an asterisk)

1. Jamieson, E. R.; Eppley, H. J.; Geselbracht, M. J.; Johnson, A. R.; Reisner, B. A.; Smith, S. R.; 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.* (Article ASAP <http://pubs.acs.org/doi/abs/10.1021/ic2006919>).
2. Reisner, B. A.; Eppley, H. J.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Smith, S. R.; Stewart, J. L.; Watson, L. A.; Williams, B. S., "Building an Online Teaching Community: An Evolving Tale of Communication, Collaboration and Chemistry. In *ACS Symposium Series: Enhancing Learning with Online Resources, Social Networking, and Digital Libraries*, Moore, J.; Pence, H.; Belford, H., Eds. American Chemical Society: 2010; pp Chapter 16, 309-330. DOI: 10.1021/bk-2010-1060.ch016.
3. Near, K. E.*; Chapin, B. M.*; McAnnally-Linz, D. C.*; Johnson, A. R. "Asymmetric Hydroamination of Aminoallenes Catalyzed by Titanium and Tantalum Complexes of Chiral Sulfonamide Alcohol Ligands." *J. Organometal. Chem.*, **2011**, 696, 81-86 (special issue on "Catalytic addition of E-H bonds") doi:10.1016/j.jorganchem.2010.08.001.
4. Chapin, B. M.*; Hughs, L. D.*; Golen, J. A.; Rheingold, A. L. Johnson, A. R. "Chlorido(η^5 -cyclopentadienyl)bis(dimethylamido)titanium, ($\text{TiCl}(\eta^5\text{-C}_5\text{H}_5)(\text{NMe}_2)_2$)." *Acta Cryst.*, **2010**, C66, m191-m193.
5. Hickman, A. J.*; Hughs, L. D.*; Jones, C. M.*; Li, H.*; Redford, J. E.*; Sobelman, S. J.*; Kouzelos, J. A.*; Johnson, A. R. "Sterically encumbered chiral amino alcohols for titanium catalyzed asymmetric intramolecular hydroamination of aminoallenes." *Tetrahedron: Asymmetry*, **2009**, 20, 1279-1285.
6. Benatan, E., Dene, J., Eppley, H. J., Geselbracht, M. J., Jamieson, E. R., Johnson, A. R., Reisner, B. A., Stewart, J. L., Watson, L. and Williams, B. S. "JCE VIPER: An Inorganic Teaching and Learning Community." *J. Chem. Educ.*, **2009**, 86, 766-767.
7. Benatan, E., Eppley, H. J., Geselbracht, M. J., Johnson, A. R., Reisner, B. A., Stewart, J. L., Watson, L. and Williams, B. S. "IONiC: A Cyber-Enabled Community of Practice for Improving Inorganic Chemical Education." *J. Chem. Educ.*, **2009**, 86, 123.
8. Duncan, A. P. and Johnson, A. R. "A "Classic Papers" Approach to Teaching Undergraduate Organometallic Chemistry." *J. Chem. Educ.*, **2007**, 84, 443-446.
9. Johnson, A. R.; McQueen, T. M.*; Rodolfa, K. T.* "Species Distribution Diagrams in the Copper-Ammonia System: An Updated and Expanded Demonstration Illustrating Complex Equilibria" *J. Chem. Educ.*, **2005**, 82, 408-414.
10. Petersen, J. R.*; Hoover, J. M.*; Kassel, W. S.; Rheingold, A. L.; and Johnson A. R. "Titanium complexes with chiral amino alcohol ligands: synthesis and structure of complexes related to hydroamination catalysts" *Inorg. Chim. Acta*, **2005**, 358, 687-694.

11. Hoover, J. M.*; Petersen, J. R.*; Pikul, J. H.* and Johnson, A. R. "Intramolecular catalytic hydroamination of substituted aminoallenes by chiral titanium amino-alcohol complexes" *Organometallics*, **2004**, *23*, 4614-4620.
12. Ho, C. K.*; Schuler, A. D.*; Yoo, C. B.*; Herron, S. R.; Kantardjieff, K. A.; and Johnson, A. R. "Synthesis, Reactivity And Structural Study Of Chiral Titanium Complexes With Amino Acid Derived N- And O- π Donor Ligands" *Inorg. Chim. Acta*, **2002**, *341*, 71-76.

ONLINE PUBLICATIONS (Undergraduate co-authors are denoted by an asterisk)

1. Benatan, E., Dene, J., Eppley, H., Geselbracht, M., Jamieson, E., Johnson, A., Reisner, B. A., Stewart, J., Watson, L. and Williams, B. "Come for the Content, Stay for the Community," in "Innovative Practices for Challenging Times," Academic Commons, 2009. (<http://www.academiccommons.org/commons/essay/come-content-stay-community>, accessed December 2010).
2. "Hydroamination" entry on the organometallics hypertext book, June 2009. (<http://www.ilpi.com/organomet/hydroamination.html>, accessed December 2010).
3. Benatan, E., Eppley, H. J., Geselbracht, M. J., Johnson, A. R., Reisner, B. A., Stewart, J. L., Watson, L. and Williams, B. S. "IONiC: A Cyber-Enabled Community of Practice for Improving Inorganic Chemical Education," Spring 2008 CONFICHEM, an on-line conference. (<http://www.ched-ccce.org/confchem/2008/b/P4.html>, accessed December 2010).

POSTDOCTORAL, DOCTORAL AND UNDERGRADUATE PUBLICATIONS

1. Cherry, J.-P. F.; Johnson, A. R.; Baraldo, L. M.; Y.-C. Tsai; Cummins, C. C.; Kryatov, S. V.; Rybak-Akimova, E. V.; Capps, K. B.; Hoff, C. D.; Haar, C. M.; and Nolan, S. P. "On the Origin of Selective Nitrous Oxide N-N Bond Cleavage by Three-Coordinate Molybdenum(III) Complexes" *J. Am. Chem. Soc.* **2001**, *123*, 7271-7286.
2. Hajela, S. P., Johnson, A. R., Xu, J., Sunderland, C. J., Cohen, S. M., Caulder, D. L. and Raymond, K. N. "Synthesis of Homochiral Tris(2-Alkyl-2-Aminoethyl)Amine Derivatives from Chiral α -Amino Aldehydes and Their Application in the Synthesis of Water Soluble Chelators" *Inorg. Chem.* **2001**, *40*, 3208-3216.
3. Johnson, A. R.; O'Sullivan, B.; Raymond, K. N., "Synthesis of a Ligand Based upon a New Entry into the 3-Hydroxy-*N*-alkyl-2(1*H*)-pyridinone Ring System and Thermodynamic Evaluation of its Gadolinium Complex" *Inorg. Chem.* **2000**, *39*, 2652-2660.
4. Peters, J. C.; Baraldo, L. M.; Baker, T. A.; Johnson, A. R.; Cummins, C. C., "Dimolybdenum- μ -cyanide Complexes Supported by *N*-*tert*-Butylanilide Ligation: in Pursuit of Cyanide Reductive Cleavage" *J. Organometal. Chem.* **1999**, *591*, 24-35.
5. Johnson, A. R.; Cummins, C. C., "*N*-*tert*-Alkyl-anilides as Bulky Ancillary Ligands" *Inorg. Synth.* **1998**, *32*, 123-132.
6. Johnson, A. R.; Davis, W. M.; Cummins, C. C.; Serron, S.; Nolan, S. P.; Musaev, D. G.; Morokuma, K., "Four-Coordinate Molybdenum Chalcogenide Complexes Relevant to Nitrous Oxide N-N Bond Cleavage by Three-Coordinate Molybdenum(III): Synthesis, Characterization, Reactivity and Thermochemistry" *J. Am. Chem. Soc.* **1998**, *120*, 2071-2085.
7. Johnson, A. R.; Davis, W. M.; Cummins, C. C., "Titanium Complexes Stabilized by *N*-(*tert*-Hydrocarbyl)anilide Ligation: A Synthetic Investigation" *Organometallics* **1996**, *18*, 3825-3835.
8. Laplaza, C. E.; Johnson, A. R.; Cummins, C. C., "Nitrogen Atom Transfer Coupled with Dinitrogen Cleavage and Mo-Mo Triple Bond Formation" *J. Am. Chem. Soc.* **1996**, *118*, 709-710.

9. Peters, J. C.; Johnson, A. R.; Odom, A. L.; Wanandi, P. W.; Davis, W. M.; Cummins, C. C., "Assembly of Molybdenum/Titanium μ -Oxo Complexes via Radical Alkoxide C-O Cleavage" *J. Am. Chem. Soc.* **1996**, *118*, 10175.
10. Johnson, A. R.; Wanandi, P. W.; Cummins, C. C.; Davis, W. N., "Cleavage of Titanium Dimethylamides with Methyl Iodide" *Organometallics* **1994**, *13*, 2907-2909.
11. Wang, R. W.; Newton, D. J.; Johnson, A. R.; Pickett, C. B.; Lu, A. Y. H., "Site-directed Mutagenesis of Glutathione S-Transferase YaYa" *J. Biol. Chem.* **1993**, *32*, 23981-23985.
12. Craig, N. C.; Gee, G. C.; Johnson, A. R., "C₆₀ and C₇₀ Made Simply" *J. Chem. Educ.* **1992**, *69*, 664-666.

INVITED SEMINARS AND OTHER FACULTY PRESENTATIONS

1. Geselbracht, M. J., Eppley, H. J., Jamieson, E. R., Johnson, A. R., Reisner, B. A., Smith, S. R., Stewart, J. L., Watson, L. A. and Williams, B. S. "VIPER: Highlighting the frontiers of research in the undergraduate chemistry classroom." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-294.
2. "Asymmetric hydroamination with titanium and tantalum complexes of chiral amino alcohols." American Chemical Society National meeting, San Francisco, CA, March 2010, INOR-44.
3. "VIPER: Virtual inorganic pedagogical electronic resource." Watson, L. A., Benatan, E., Dene, J., Eppley, H. J., Geselbracht, M. J., Jamieson, E. R., Johnson, A. R., Reisner, B. A., Smith, S. R., Stewart, J. L., Williams, B. S. American Chemical Society National meeting, San Francisco, CA, March 2010, INOR-213.
4. "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. 238th National Meeting of the American Chemical Society, Washington, D. C., August 2009, CHED 69.
5. "Come for the content, stay for the community: The development of a social network and digital library for improving inorganic chemistry teaching" Stewart, J. L.; Reisner, B. A.; Eppley, H. J.; Benatan, E.; Dene, J.; Geselbracht, M. J.; Jamieson, E. R.; Johnson, A. R.; Watson, L. A.; Williams, B. S. 238th National Meeting of the American Chemical Society, Washington, D. C., August 2009, CHED 438.
6. "The Virtual Inorganic Pedagogical Electronic Resource: An Online Teaching Materials Repository and Interactive Social Networking Environment for Inorganic Chemistry Educators," Johnson, A., Benatan, E., Dene, J., Eppley, H., Geselbracht, M., Jamieson, E., Reisner, B., Stewart, J., Watson, L. and Williams, B., in EDULEARN09, Proceedings of the International Conference on Education and New Learning Technologies, Barcelona, Spain, July 6-8, 2009; IATED, Ed. (www.iated.org/edulearn09).
7. "VIPER: Blurring the Line Between Repository and Social Network for Faculty." Benatan, E. and Johnson, A. R. CLAC Conference 2009, June 16-18, Occidental College.
8. "VIPER: A resource and community for teaching inorganic chemistry." Watson, L. A.; Eppley, H. J.; Geselbracht, M. J.; Johnson, A. R.; Reisner, B. A.; Stewart, J. L.; Williams, B. S.; Benatan, E.; and Jamieson, E. R. American Chemical Society National meeting, Salt Lake City, UT, March 2009, CHED-1257.
9. "VIPER: Virtual Inorganic Pedagogical Electronic Resource." Resiner, B. A.; Benatan, E.; Eppley, H. J.; Geselbracht, M. J.; Johnson, A. R.; Stewart, J.; Watson, L. A.; Jamieson, E. R.; and Williams, B. S. American Chemical Society National meeting, Salt Lake City, UT, March 2009, INOR-751.

10. "Asymmetric hydroamination with titanium and tantalum complexes of cyclopentadiene and amino alcohols." Johnson, A. R., Hughs, L. D., and Redford, J. E. American Chemical Society National meeting, Salt Lake City, UT, March 2009, INOR-590.
11. "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. and Williams, B. S. ConfChem Conference [Online] April-June 2008, <http://www.ched-ccce.org/confchem/2008/b/P4.html> (accessed July 24, 2008).
12. "Integration of research and education at the frontiers of inorganic chemistry." Johnson, A. R., Geselbracht, M. J., Eppley, H. J., Reisner, B. A., Stewart, J., Watson, L. A., and Williams, B. S. American Chemical Society National meeting, New Orleans, LA, April 2008, INOR-885.
13. "IONiC: Interactive online network of inorganic chemists." Hilary J. Eppley, Margret J. Geselbracht, Adam R. Johnson, Barbara A. Reisner, Joanne Stewart, Lori A. Watson, and Burke Scott Williams American Chemical Society National meeting, New Orleans, LA, April 2008, INOR-772.
14. "The interactive online network of inorganic chemists (IONiC): Inter-institutional grant writing, project planning, and community building using social networking tools." Hilary J. Eppley, Margret J. Geselbracht, Adam R. Johnson, Barbara A. Reisner, Joanne Stewart, Lori A. Watson, and Burke Scott Williams American Chemical Society National meeting, New Orleans, LA, April 2008, CHED-765.
15. "The IONiC/VIPeR Project." Johnson, A. R., Williams, B. S., Benatan, E., Eppley, H. J., Geselbracht, M. J., Reisner, B. A. Stewart, J. L., and Watson, L. A. NITLe conference entitled "Scholarly Collaboration and Small Colleges in the Digital Age" at Pomona College, January 10 – 12, 2008.
16. "Catalytic reactions with chiral titanium amide-alkoxides." Chemistry Seminar Series, University of Toledo, October 22, 2007.
17. "IONiC: interactive online network of inorganic chemists." Eppley, H. J., Geselbracht, M. J., Johnson, A. R., Reisner, B. A. and Williams, B. S. American Chemical Society National meeting, Boston, MA, August 2007.
18. "Ligand Design for the Intramolecular Asymmetric Hydroamination of Aminoallenes." Organometallic Chemistry Gordon Research Conference, Newport RI, July 2007.
19. "Teaching Crystallography to Undergraduates through Distance Learning and Remote Access." Kantardjieff, K. A., Johnson, A. R. and Ouyang, X. American Crystallography Association Meeting, July 2007.
20. "Synthesis of and asymmetric catalysis with titanium amino-alcohol complexes." 233rd meeting of the American Chemical Society, Chicago, IL, 2007, INOR 98, invited speaker at the Cotton Award Symposium in honor of Christopher C. Cummins.
21. "Synthesis of and asymmetric catalysis with titanium amino-alcohol complexes." Chemistry Seminar Series, University of Redlands, January 30, 2007.
22. "Derivation of ligand group orbitals for transition metal complexes using an intuitive symmetry-based approach." American Chemical Society National Meeting, San Francisco, CA, 2006.
23. "Theoretical modeling of titanium amide-alkoxide complex formation and reactivity." Boye, J. R.*, Cave, R. J. and Johnson, A. R. American Chemical Society National Meeting, Atlanta, GA March 2006.
24. "Student-led organometallic chemistry course based on classic literature." Duncan, A. P. and Johnson, A. R. American Chemical Society National Meeting, Atlanta, GA, March 2006.
25. "Catalytic reactions with chiral titanium amide-alkoxides." Inorganic-Organometallic Seminar Series, California Institute of Technology, November 18, 2005.

26. "Catalytic reactions with chiral titanium amide-alkoxides." Inorganic Chemistry Seminar Series, University of Oregon, October 28, 2005.
27. "Catalytic reactions with chiral titanium amide-alkoxides." Science Seminar, University of La Verne, October 19, 2005.
28. "Electronic effects in the synthesis of Titanium amino-alcohol complexes." American Chemical Society National Meeting, San Diego, March 2005.
29. "Electronic effects in the synthesis of Titanium amino-alcohol complexes." Inorganic Reaction Mechanisms Gordon Research Conference, Ventura, CA, February 2005.
30. "Catalytic reactions of chiral titanium amino-alcohol complexes: intramolecular hydroamination and diethylzinc addition." Inorganic Chemistry Seminar Series, University of Washington, September 28, 2004.
31. "Molecular Micromanagement: Ligand Design for Inorganic Complexes and Organometallic Reaction Chemistry." Summer faculty research seminar series, Harvey Mudd College, June 17, 2004.
32. "Intramolecular catalytic hydroamination of aminoallenes by chiral titanium amino-alcohol complexes." Inorganic Chemistry Seminar Series, University of California, Santa Barbara, May 19, 2004.
33. "Intramolecular catalytic hydroamination of aminoallenes by chiral titanium amino-alcohol complexes." Inorganic Chemistry Seminar Series, University of California, Irvine, April 8, 2004.
34. "Intramolecular catalytic hydroamination of aminoallenes by chiral titanium amino-alcohol complexes." Inorganic Chemistry Seminar Series, University of California, San Diego, February 13, 2004.
35. "Synthesis and reaction chemistry of chiral titanium complexes with amino-acid derived ligands" Adam R. Johnson, Jessica M. Hoover*, and Jessica H. Pikul*, Organometallic Chemistry Gordon Research Conference, Newport RI, July 2003.
36. "Titanium Amido Complexes with Amino Acid Derived Ligands." Inorganic Chemistry Seminar Series, University of California, Riverside, October 4, 2002.
37. "Synthesis of Diastereomeric Titanium Complexes with a Chelating bis-Amide Ligand Derived From L-Phenylalanine." Adam R. Johnson, Tamara E. Hanna*, and Kendra E. Nelson*, Organometallic Chemistry Gordon Research Conference, Newport RI, July 2002.
38. "Molecular Micromanagement: Ligand Design for Inorganic Complexes." Summer faculty research seminar series, Harvey Mudd College, June 22, 2000.
39. "Synthesis of New Gadolinium Chelators for Magnetic Resonance Imaging Applications." American Chemical Society, Annual Meeting, Anaheim, March, 1999, INOR-296.
40. "Synthesis, Characterization and Reactivity of Molybdenum(V) and -(VI) Chalcogenide Complexes." Massachusetts Institute of Technology, Inorganic Seminar Series, October, 1996.
41. "Synthesis, Characterization and Reactivity of Molybdenum Chalcogenide Complexes." American Chemical Society, Annual Meeting, Orlando, August, 1996, INOR-419.
42. "Titanium *N-t*-Butyl Anilide Complexes." American Chemical Society, North-East Regional Meeting, June, 1994.
43. "A Simple Apparatus for C₆₀ preparation." Oberlin College, Special Lecture/Demonstration, several times in 1991-1993.
44. "C₆₀ and C₇₀ Made Simply." American Chemical Society, Meeting in Miniature, Ursuline College, February, 1991.

STUDENT PRESENTATIONS (Undergraduate co-authors are denoted by an asterisk, presenter is underlined)

1. Chapin, B. M.,* Near, K. E.,* and Johnson, A. R. "Asymmetric hydroamination of aminoallenes catalyzed by titanium and tantalum complexes of chiral sulfonamide-alcohols." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-62 (oral presentation).
2. Hansen, M. C.,* Heusser, C. A.,* and Johnson, A. R. "Catalytic asymmetric hydroamination with tantalum complexes of chiral amino alcohols." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-63 (oral presentation).
3. Avila, T. R.,* Cave, R. J. and Johnson, A. R. "Theoretical investigations of tantalum catalyzed asymmetric hydroamination." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-331.
4. Chapin, B. M.,* Park, K.-J., and Johnson, A. R. "Asymmetric hydroamination of aminoallenes catalyzed by tantalum complexes of aminoalcohol and diamine ligands." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-330.
5. Fong, K. E.,* Kossarian, M. M.,* and Johnson, A. R. "Tantalum complexes with amino alcohol and phenol ligands as catalysts for asymmetric intramolecular hydroamination of aminoallenes." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-329.
6. Hara, N.,* Hansen, M. C.,* and Johnson, A. R. "Selective hydroamination with bidentate amino alcohol complexes of tantalum." American Chemical Society National meeting, Anaheim, CA, March 2011, INOR-328.
7. Park, K.-J.* and Johnson, A. R. "Improvement of Tantalum Complex for Asymmetric Hydroamination Catalysis." Southern California Conference on Chemical Education, Pepperdine University, November 20, 2010.
8. Narayan, T. C.,* Near, K. E.,* Johnson, A. R. "Sterically congested tantalum(V) complexes for the asymmetric hydroamination of aminoallenes." American Chemical Society National meeting, San Francisco, CA, March 2010, INOR-252.
9. Chapin, B. M.,* Near, K. E.,* Johnson, A. R. "Asymmetric hydroamination of aminoallenes catalyzed by metal complexes with electron-withdrawing sulfonamide ligands." American Chemical Society National meeting, San Francisco, CA, March 2010, INOR-253.
10. Hansen, M. C.,* Heusser, C. A.,* Johnson, A. R. "Catalytic hydroamination with tantalum complexes of chiral amino alcohols." American Chemical Society National meeting, San Francisco, CA, March 2010, INOR-256.
11. Hughs, L. D.* and Johnson, A. R. "Titanium and tantalum cyclopentadienyl complexes as precatalysts for the intramolecular asymmetric hydroamination of aminoallenes." American Chemical Society National meeting, Salt Lake City, UT, March 2009, INOR-785.
12. Redford, J. E.* and Johnson, A. R. "Synthesis of a tethered ligand for titanium and tantalum hydroamination catalysis." American Chemical Society National meeting, Salt Lake City, UT, March 2009, INOR-784.
13. Hughs, L. D.* and Johnson, A. R. "Asymmetric catalysis with sterically bulky titanium amide alkoxide complexes." American Chemical Society National meeting, New Orleans, LA, April 2008, INOR-777.

14. McAnnally-Linz, D. C.* and Johnson, A. R. "Enantioselective catalytic hydroamination of aminoallenes with titanium complexes of sulfonamide alcohols." American Chemical Society National meeting, New Orleans, LA, April 2008, INOR-780.
15. Adam R. Johnson, Casey M. Jones,* and Hanhan Li;* "Stereoselective alkylation of benzaldehyde by chiral titanium amino alcohol complexes." American Chemical Society National Meeting, San Diego, March 2005, CHED-1079.
16. Adam R. Johnson, Jessica M. Hoover,* and Juliette R. Petersen;* "Catalytic hydroamination of aminoallenes by chiral titanium amino-alcohol complexes." American Chemical Society National Meeting, Anaheim, March 2004, CHED-378.
17. Adam R. Johnson and Kendra E. Nelson* "Titanium amido complexes with amino acid derived ligands." American Chemical Society National Meeting, New Orleans, March 2003 CHED-738.
18. Adam R. Johnson and Elizabeth J. Duvall* "Reaction chemistry of chiral titanium complexes." American Chemical Society National Meeting, New Orleans, March 2003, CHED-695.
19. Adam R. Johnson and Tamara E. Hanna* "Synthesis of Diastereomeric Titanium Complexes with a Chelating bis-Amide Ligand Derived From L-Phenylalanine." American Chemical Society National Meeting, Orlando FL, April 2002, CHED-567.
20. Adam R. Johnson and Aaron D. Schuler* "Effects of Ligand Sterics and Electronics on Epimerization of Chiral Titanium Complexes." American Chemical Society National Meeting, San Diego, April 2001, CHED-352.
21. Adam R. Johnson and Christine B. Yoo* "Synthesis and Characterization of Chiral Tetrahedral Titanium Complexes with Amino Acid-Derived Ligands" American Chemical Society National Meeting, San Diego, April 2001, CHED-398.
22. Adam R. Johnson and Gayle J. Pageau* "Synthesis of a Polyfunctional Ligand for Early-Late Heterobimetallic Complexes." American Chemical Society National Meeting, San Diego, April 2001, CHED-410.