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EDUCATION

2001 – 2003 University of Oxford, Oxford UK, Postdoctoral Research Assistant, Advisor Dermot O'Hare
1996 – 2000 Northwestern University, Evanston IL, Advisor Kenneth R. Poeppelmeier
Ph.D. in Chemistry, Northwestern University
1996 – 1997 Northwestern University, Evanston IL, Advisor Kenneth R. Poeppelmeier
M.S. in Chemistry, Northwestern University
1992 – 1996 Gustavus Adolphus College, St. Peter MN, Advisor Lawrence W. Potts
B.A. in Chemistry

PROFESSIONAL EXPERIENCE

Assistant Professor of Chemistry, Haverford College, Haverford PA 2003 – Present
Postdoctoral Research Assistant, University of Oxford, Oxford UK 2001 – 2003

GRANTS

2009 – 2012 National Science Foundation, RUI: Synthesis of Organically Templated Gallium Sulfites,' \$160,000.
2005 – 2008 Research Corporation Cottrell College Science Award, 'Directed Synthesis of Noncentrosymmetric Materials,' 2005 – 2008. \$36,704.
2004 – 2007 American Chemical Society Petroleum Research Fund Type G Faculty Start-up Grant, 'Synthesis of Organically Templated Molybdenum Sulfates Under Hydrothermal Condition,' 2004 – 2007. \$35,000.
2003 – 2008 Henry and Camille Dreyfus Foundation Faculty Start-up Award for Undergraduate Institutions, 'Synthesis of Organically Templated Vanadium Sulfates Under Hydrothermal Conditions,' 2003 – 2008. \$20,000.

PROFESSIONAL MEMBERSHIPS

- American Chemical Society
- Council on Undergraduate Research

INVITED SEMINARS AND CONFERENCES

- "In-situ Investigations of Synthetic Inorganic Materials," Bryn Mawr College, September 19, 2003
- "Sulfated Molybdates." 12th National Science Foundation Workshop on Materials Chemistry and Nanoscience, November 12, 2004
- "Formative Assessment using Personal Response Systems," Math Science Partnership of Greater Philadelphia Science Education conference, Bryn Mawr College, Bryn Mawr, PA. March 25, 2006
- "Metallurgy in a beaker," Haverford College. June 14, 2006.
- "Directed syntheses of noncentrosymmetric materials." Swarthmore College, Swarthmore PA. October 2, 2008.
- "Directed syntheses of noncentrosymmetric materials." Drexel University, Philadelphia PA. March 13, 2009.
- "Charged density matching in templated molybdates." North American Solid State Chemistry Conference, Columbus OH. June 19, 2009.

CONTRIBUTED PRESENTATIONS

- “Directed synthesis of noncentrosymmetric molybdates.” North American Solid State Chemistry Conference, South Bend, IN. May 25, 2005.
- “Directed synthesis of noncentrosymmetric molybdates.” Gordon Research Conference on Solid State Chemistry, Il Coccio, Italy. June 6, 2005.
- “Noncentrosymmetric molybdates from chiral organic amines.” Gordon Research Conference on Solid State Chemistry, New London, NH. July 25, 2006.
- “Synthesis of noncentrosymmetric molybdates.” North American Solid State Chemistry Conference, Collegeville, TX. May 18, 2007.
- “Synthesis of noncentrosymmetric molybdates.” Zing Solid State Chemistry Conference, Cancun, Mexico. March 12, 2008.
- “Synthesis of noncentrosymmetric molybdates.” American Chemical Society National Meeting, Philadelphia, PA. August 21, 2008.
- “A synthetic strategy for noncentrosymmetric molybdates.” Gordon Research Conference on Solid State Chemistry, New London, NH. July 27, 2008.
- “Directed syntheses of noncentrosymmetric materials.” American Chemical Society National Meeting, Salt Lake City, UT. March 22, 2009.
- “Charge density matching in templated molybdates.” American Chemical Society National Meeting, Washington, DC. August 19, 2009.

PROFESSIONAL ACTIVITIES

- Frequent reviewer for the journals *Inorganic Chemistry*, *European Journal of Inorganic Chemistry*, *Crystal Growth and Design*, *Chemistry of Materials*, *the Journal of the American Chemical Society*, *Journal of Inorganic Biochemistry*, *the Journal of Solid State Chemistry* and the *Journal of Chemical Education*.

RESEACH INTERESTS

My research interests are focused on the synthesis of new solid state materials with desirable physical properties. Specifically, mild hydrothermal conditions have been used to prepare a series of new organically templated inorganic compounds. Investigations have been directed toward the development of systematic means for the creation of new noncentrosymmetric materials. Two main systems have been studied, templated polyoxomolybdates and metal phosphates, sulfates, sulfites and tellurites.

In our study of polyoxomolybdates, we have determined how one can control the structure of the inorganic component, influence product composition, investigated the role of the amine, studied fluoride incorporation, quantified the role of charge density matching between the cationic amines and anionic polyoxomolybdates and learned to direct crystallization to noncentrosymmetric space groups. This work has resulted in the synthesis and structural determination of approximately 45 compounds. We have developed a new method for the quantification of surface areas of complex inorganic structures using a geometrical decomposition method, from which charge density matching is clearly observed. In addition, we have used chiral organic amines to force crystallographic noncentrosymmetry in a series of polyoxomolybdates and sulfated molybdates. The second harmonic generation of each compound was measured to confirm the symmetry assignment.

In the past year, my research has been refocused on templated metal sulfates, sulfites, phosphates and tellurites. This work has resulted in the formation of several new noncentrosymmetric gallium phosphates, the first templated gallium sulfates (none appear in the literature), and two vanadium tellurites. Our interest in the use of sulfates, sulfites, phosphates and tellurites is rooted in their ability to increase structural diversity and form higher dimensionality solids. In addition, sulfites and tellurites include stereochemically active lone pairs that can act as structure directors. We are also using electron localization functions to visualize these lone pairs.

PUBLICATIONS (57 total) (underlined authors are Haverford undergraduates)

1. Choyke, S. J.; Blau, S. M.; Larner, A. A.; Narducci Sarjeant, A.; Yeon, J.; Halasyamani, P. S.; Norquist, A. J. Noncentrosymmetry in New Templated Gallium Fluorophosphates. *Inorg. Chem.* **2009**, Submitted.
2. Sanchez Casalongue, H.; Choyke, S. J.; Narducci Sarjeant, A.; Schrier, J.; **Norquist, A. J.** Charge Density Matching in Templated Molybdates. *J. Solid State Chem.* **2009**, *182*, 1297-1303.
3. Hubbard, D. J.; Johnston, A. R.; Sanchez Casalongue H.; Narducci Sarjeant, A.; **Norquist, A. J.** Synthetic Approaches for Noncentrosymmetric Molybdates. *Inorg. Chem.* **2008**, *47*, 8518-8525.
4. Stover, A. K.; Gutnick, J. R.; Narducci Sarjeant, A.; **Norquist, A. J.** $[\text{Mo}_{16}\text{O}_{53}\text{F}_2]^{12-}$; a New Polyoxofluoromolybdate Anion. *Inorg. Chem.* **2007**, *46*, 4389-4391.
5. Nelson, J. H.; Narducci Sarjeant, A.; **Norquist, A. J.** [Poly[tris(*p*-xylylenediaminium)][tetradeca- μ -oxohexadecanonamolybdate(VI)]]] *Acta Crystallogr. Sect. E* **2007**, *63*, m1442-m1444.
6. Nelson, J. H.; Johnston, A. R.; Narducci Sarjeant, A.; **Norquist, A. J.** Composition Space Analysis of Templated Molybdates. *Solid State Sci.* **2007**, *9*, 472-484.
7. Welk, M. E.; Stern, C. L.; Poeppelmeier, K. R.; **Norquist, A. J.** The Effects of Reaction Gel Dehydration in the Synthesis of $\text{Cu}(\text{NC}_5\text{H}_5)_4\text{VOF}_4$ and $[\text{Cu}(\text{NC}_5\text{H}_5)_4\text{VOF}_4][\text{Cu}(\text{NC}_5\text{H}_5)_4(\text{H}_2\text{O})\text{VOF}_4]\cdot\text{H}_2\text{O}$ *Cryst. Growth Des.* **2007**, *7*, 956-961.
8. Nelson, J. R.; Narducci Sarjeant, A.; **Norquist, A. J.** Poly[tetrakis(4-aminopyridium) [hexadeca- μ -decaoxooctamolybdate(VI)]]]. *Acta Crystallogr. Sect. E*, **2006**, *62*, m1731-m1733.
9. Williams, G. R.; **Norquist, A. J.**; O'Hare, D. Incorporation of Li into MnOOH: An In Situ X-ray and Neutron Diffraction Study. *Chem. Mater.* **2006**, *18*, 3801-3807.
10. Nelson, J. R.; Narducci Sarjeant, A.; **Norquist, A. J.** Poly[bis(4-aminopyridinium) decaoxotrimolybdate(VI)]. *Acta Crystallogr. Sect. E*, **2006**, *62*, m1448-m1450.
11. Veltman, T. R.; Stover, A. K.; Narducci Sarjeant, A.; Ok, K. M.; Halasyamani, P. S.; **Norquist, A. J.** Directed Synthesis of Noncentrosymmetric Molybdates Using Composition Space Analysis. *Inorg. Chem.* **2006**, *45*, 5529-5537.
12. Thorn, K. J.; Narducci Sarjeant, A.; **Norquist, A. J.** $[\text{C}_4\text{H}_{14}\text{N}_2]_2[\text{Mo}_8\text{O}_{26}]\cdot 2\text{H}_2\text{O}$: A New Molybdate Salt. *Acta Crystallogr. Sect. E*, **2005**, *61*, m1665-m1667.
13. Muller, E. A.; Cannon, R. J.; Narducci Sarjeant, A.; Ok, K. M.; Halasyamani, P. S.; **Norquist, A. J.** Directed Synthesis of Noncentrosymmetric Molybdates. *Cryst. Growth Des.* **2005**, *5*, 1913-1917.
14. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. $(\text{C}_3\text{H}_{12}\text{N}_2)_2[\text{UO}_2(\text{H}_2\text{O})_2(\text{SO}_4)_2]\cdot 2\text{H}_2\text{O}$: An Organically Templated Uranium Sulfate with a Novel Dimer Type. *Acta Crystallogr. Sect. E* **2005**, *61*, m881-m884.
15. **Norquist, A. J.**; Doran, M. B.; O'Hare, D. $(\text{C}_7\text{H}_{20}\text{N}_2)[(\text{UO}_2)_2(\text{SO}_4)_3]$: An Organically Templated Uranium Sulfate with a Novel Layer Topology. *Acta Crystallogr. Sect. E* **2005**, *61*, m807-m810.
16. Muller, E. A.; Narducci Sarjeant, A.; **Norquist, A. J.** $(\text{C}_6\text{H}_{16})_2[\text{Mo}_8\text{O}_{26}]$: A New β -Octamolybdate Salt. *Acta Crystallogr. Sect. E* **2005**, *61*, m730-m732.

17. **Norquist, A. J.**; Doran, M. B.; O'Hare, D. The Role of Amine Sulfates in Hydrothermal Uranium Chemistry. *Inorg. Chem.* **2005**, *44*, 3837-3843.
18. Doran, M. B.; Cockbain, B. E.; **Norquist, A. J.**; O'Hare, D. The Effects of Hydrofluoric Acid Addition on the Hydrothermal Synthesis of Templated Uranium Sulfates. *J. Chem. Soc. Dalton Trans.* **2004**, 3810-3814.
19. Gutnick, J. G.; Muller, E. A.; Narducci Sarjeant, A.; **Norquist, A. J.** [N₂C₅H₁₄][(MoO₃)₃(SO₄)]·H₂O: Sulfated α-Molybdena Chains. *Inorg. Chem.* **2004**, *43*, 6528-6530.
20. Doran, M. B.; **Norquist, A. J.**; Stuart, C. L.; O'Hare, D. (C₈H₂₆N₄)_{0.5}[(UO₂)₂(SO₄)₃(H₂O)]·2H₂O, An Organically Templated Uranyl Sulfate with a Novel Layer Type. *Acta Crystallogr. Sect. E* **2004**, *60*, m996-m998.
21. **Norquist, A. J.**; O'Hare, D. Kinetic and Mechanistic Investigations of Hydrothermal Transformations in Zinc Phosphates. *J. Am. Chem. Soc.* **2004**, *126*, 6673-6679.
22. Williams, G. R.; **Norquist, A. J.**; O'Hare, D. Time-Resolved, *In-situ* X-ray Diffraction Studies of Staging During Phosphonic Acid Intercalation into [LiAl₂(OH)₆]Cl·H₂O. *Chem. Mater.* **2004**, *16*, 975-981.
23. Doran, M. B.; Stuart, C. L.; **Norquist, A. J.**; O'Hare, D. [N₂C₆H₁₄]₂[(UO₂)₆(H₂O)₂F₂(PO₄)₂(HPO₄)₄]·4H₂O; A New Microporous Uranium Phosphate Fluoride. *Chem. Mater.* **2004**, *16*, 565-566.
24. Jones, S. C.; Hascall, T.; **Norquist, A. J.**; O'Hare, D. A Novel Coordination Mode for Pentalene in Trinuclear Chromium Complexes. *Inorg. Chem.* **2003**, *42*, 7707-7709.
25. Kim, J. Y.; **Norquist, A. J.**; O'Hare, D. [(Th₂F₅)(NC₇H₅O₄)₂(H₂O)][NO₃], an Actinide-Organic Open-Framework. *J. Am. Chem. Soc.* **2003**, *125*, 12688-12689.
26. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. Poly[[1,4-bis-(3-aminopropyl)piperazinium][[dioxouranium(VI)]-di-μ₂,μ₃-sulfato]]. *Acta Crystallogr. Sect. E.* **2003**, *59*, m762-m764.
27. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. Exploration of Composition Space in Templated Uranium Sulfates. *Inorg. Chem.* **2003**, *42*, 6989-6995.
28. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. *catena*-Poly[cyclohexane-1,4-diammonium[[dioxo(sulfato-κ²O,O')uranium(VI)]-μ-sulfato]dehydrate]. *Acta Crystallogr. Sect. E.* **2003**, *59*, m765-m767.
29. Kim, J. Y., **Norquist, A. J.**; O'Hare, D. Incorporation of U(IV) into Metal-Organic Framework Solids, [UO₂(C₄H₄O₄)·H₂O, [UO₂F(C₅H₆O₄)·2H₂O and [(UO₂)_{1.5}(C₈H₄O₄)₂]₂[(CH₃)₂NCOH₂]·H₂O. *J. Chem. Soc. Dalton Trans.* **2003**, 2813-2814.
30. **Norquist, A. J.**; Doran, M. B.; Thomas, P. M.; O'Hare, D. Controlled Structural Variations in Templated Uranium Sulfates. *Inorg. Chem.* **2003**, *42*, 5949-5953.
31. **Norquist, A. J.**; O'Hare, D. Time-Resolved, In-Situ Energy Dispersive X-ray Diffraction Studies of the Structural Transformations of Templated Zinc Phosphates Under Hydrothermal Conditions. *IUCr Comm. Powder Diff.* **2003**, *29*, 21-23.

32. Stuart, C. L.; Doran, M. B.; **Norquist, A. J.**; O'Hare *catena*-Poly[1-methylpiperazinium [[aquadioxouranium(VI)]- μ -sulfato- κ^4 O:O']] *Acta Crystallogr. Sect. E* **2003**, *59*, m446-m448.
33. Williams, G. R.; **Norquist, A. J.**; O'Hare, D. The Formation of Ordered Heterostructures During the Intercalation of Phosphonic Acids into a Layered Double Hydroxide. *Chem. Commun.* **2003**, 1816-1817.
34. **Norquist, A. J.**; Doran, M. B.; O'Hare D. The Effects of Linear Diamine Chain Length in Uranium Sulfates. *Solid State Sciences* **2003**, *5*, 1149-1158.
35. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. *catena*-Poly[tetramethylammonium [[nitrate- κ^2 O,O')dioxouranium]- μ_3 -sulfato]] *Acta Crystallogr. Sect. E* **2003**, *59*, m373-m375.
36. Kim, J. Y.; **Norquist, A. J.**; O'Hare, D. Variable Dimensionality in the $\text{UO}_2(\text{CH}_3\text{CO}_2)_2 \cdot 2\text{H}_2\text{O}/\text{HF}/\text{Isonicotinic Acid}$ System: Synthesis and Structures of Zero-, One-, and Two-Dimensional Uranium Isonicotinates. *Chem. Mater.* **2003**, *15*, 1970-1975.
37. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. Reactant-Mediated Diversity in Uranyl Phosphonates. *Chem. Mater.* **2003**, *15*, 1449-1455.
38. **Norquist, A. J.**; Doran, M. B.; Thomas, P. M.; O'Hare, D. Structural Diversity in Organically Templated Uranium Sulfates. *J. Chem. Soc. Dalton Trans.* **2003**, 1168-1175.
39. Thomas, P. M.; **Norquist, A. J.**; Doran, M. B.; O'Hare, D. Organically Templated Uranium(IV) Sulfates: Understanding Phase Stability Using Composition Space. *J. Mater. Chem.* **2003**, *13*, 88-92.
40. **Norquist, A. J.**; Thomas, P. M.; Doran, M. B.; O'Hare, D. Synthesis of Cyclical Diamine Templated Uranium Sulfates. *Chem. Mater.* **2002**, *14*, 5179-5184.
41. Doran, M. B.; **Norquist, A. J.**; O'Hare, D. $[\text{NC}_4\text{H}_{12}]_2[(\text{UO}_2)_6(\text{H}_2\text{O})_2(\text{SO}_4)_7]$: The First Organically Templated Actinide Sulfate with a Three-dimensional Framework Structure. *Chem. Commun.* **2002**, 2946-2947.
42. Walton, R. I.; **Norquist, A. J.**; Smith R. I.; O'Hare, D. Recent Results from the *In Situ* Study of Hydrothermal Crystallizations using Time-Resolved X-ray and Neutron Diffraction Methods. *Faraday Discuss.* **2002**, *122*, 331-341.
43. Welk, M. E.; **Norquist, A. J.**; Arnold, F. P.; Stern, C. L.; Poeppelmeier, K. R. Out-of-Center Distortions in d^0 Transition Metal Oxide Fluoride Anions *Inorg. Chem.* **2002**, *41*, 5119-5125.
44. Kim, J. Y.; **Norquist, A. J.**; O'Hare, D. The First Organically Templated Thorium Fluorides, $[\text{C}_4\text{N}_2\text{H}_{12}]_{0.5}[\text{ThF}_5]$ and $[\text{C}_5\text{N}_2\text{H}_{14}][\text{ThF}_6] \cdot 0.5\text{H}_2\text{O}$. *Chem. Commun.* **2002**, 2198-2199.
45. Terry, A. E.; Vaughan, G. B. M.; Kvik, A.; Walton, R. I.; **Norquist, A. J.**; O'Hare, D. *In situ* Time-Resolved X-ray Diffraction: the Current State of the Art. *Synchrotron Rad. News.* **2002**, *15*, 4-13.
46. Wang, X.; **Norquist, A. J.**; Pless, J.; Stern, C. L.; Vander Griend, D. A.; Poeppelmeier, K. R. Crystal growth and co-substitution in $(\text{Mg}_{1-x}\text{Fe}_x)(\text{Mo}_{2-x}\text{V}_x)\text{O}_7$ ($0.13 \leq x \leq 0.47$) with (V/Mo)=O oxo double bonds. *J. Alloys Comp.* **2002**, *338*, 26-31.
47. Khan, A. I.; Lei, L.; **Norquist, A. J.**; O'Hare, D. Intercalation and Controlled Release of Pharmaceutically Active Compounds from a Layered Double Hydroxide. *Chem. Commun.* **2001**, 2342-2343.

48. Walton, R. I.; **Norquist, A. J.**; Neeraj, S.; Natarajan, S.; Rao, C. N. R.; O'Hare, D. Direct *In Situ* Observation of Increasing Structural Dimensionality During the Hydrothermal Formation of Open-Framework Zinc Phosphates. *Chem. Commun.* **2001**, 1990-1991.
49. Welk, M. E.; **Norquist, A. J.**; Stern, C. L.; Poeppelmeier, K. R. The Ordered $[\text{WO}_2\text{F}_4]^{2-}$ Anion. *Inorg. Chem.* **2001**, *40*, 5479-5480.
50. Heier, K. R.; **Norquist, A. J.**; Mertzenich, C. L.; Poeppelmeier, K. R.; Absence of Ligand-Mediated Symmetry Reduction in a Solid Solution: $\text{Cu}(\text{NC}_5\text{H}_5)_4[(\text{NbOF}_5)_{1-x}(\text{WO}_2\text{F}_4)_x]$ ($0 \leq x \leq 1$). *Cryst. Growth Des.* **2001**, *1*, 203-206.
51. **Norquist, A. J.**; Heier, K. R.; Halasyamani, P. S.; Stern, C. L.; Poeppelmeier, K. R. Polar Compounds Constructed with the $[\text{Cr}_2\text{O}_7]^{2-}$ Anion. *Inorg. Chem.* **2001**, *40*, 2015-2019.
52. Welk, M. E.; **Norquist, A. J.**; Stern, C. L.; Poeppelmeier, K. R. The Structure Directing Properties of $[\text{VOF}_5]^{2-}$. *Inorg. Chem.* **2000**, *39*, 3946-3947.
53. **Norquist, A. J.**; Welk, M. E.; Stern, C. L.; Poeppelmeier, K. R. Synthesis of the Neutral $(\text{CuF}(\text{NC}_5\text{H}_5)_4)_2\text{NbOF}_5$ Cluster. *Chem. Mater.* **2000**, *12*, 1905-1909.
54. **Norquist, A. J.**; Stern, C. L.; Poeppelmeier, K. R. $\text{Cu}(\text{C}_{10}\text{H}_9\text{N}_3)_2\text{MOF}_5 \cdot 2\text{H}_2\text{O}$ ($\text{M} = \text{Nb}, \text{Ta}$): Aligned $[\text{MOF}_5]^{2-}$ Oxide Fluoride Anions. *Inorg. Chem.* **1999**, *38*, 3448-3449.
55. Heier, K. R.; **Norquist, A. J.**; Halasyamani, P. S.; Duarte, A.; Stern, C. L.; Poeppelmeier, K. R. The Polar $[\text{WO}_2\text{F}_4]^{2-}$ Anion in the Solid State. *Inorg. Chem.* **1999**, *38*, 762-767.
56. **Norquist, A. J.**; Heier, K. R.; Stern, C. L.; Poeppelmeier, K. R. Composition Space Diagrams for Mixed Transition Metal Oxide Fluorides. *Inorg. Chem.* **1998**, *37*, 6495-6501.
57. Halasyamani, P. S.; Heier, K. R.; **Norquist, A. J.**; Stern, C. L.; Poeppelmeier, K. R. Composition Space of the $(\text{CdO}, 0.5\text{Nb}_2\text{O}_5) / (\text{HF})_x$ -pyridine / H_2O System. Structure and Synthesis of $\text{CdNb}(\text{py})_4\text{OF}_5$. *Inorg. Chem.* **1998**, *37*, 369-371.
58. Heier, K. R.; **Norquist, A. J.**; Wilson, C. G.; Stern, C. L.; Poeppelmeier, K. R. $[\text{pyH}]_2[\text{Cu}(\text{py})_4(\text{MX}_6)_2]$ ($\text{MX}_6 = \text{ZrF}_6^{2-}, \text{NbOF}_5^{2-}, \text{MoO}_2\text{F}_4^{2-}$; $\text{py} = \text{Pyridine}$): Rarely Observed Ordering of Metal Oxide Fluoride Anions. *Inorg. Chem.* **1998**, *37*, 76-80.

RESEARCH ADVISEES

- 2008 – 2009** Sam Blau Kelvin Chang, Sarah Choyke, Zhao Fang, Desmond Hubbard, Elizabeth Kaufman, Jacob Olshansky
- 2007 – 2008** Desmond Hubbard, Hernan Sanchez, Paul Siebert, Lindsey Sullivan
- 2006 – 2007** Desmond Hubbard, Alex Johnston, Hernan Sanchez, Thomas Veltman
- 2005 – 2006** Alex Johnston, James Nelson, Adam Stover, Thomas Veltman
- 2004 – 2005** Robert Cannon, Adam Stover, Katherine Thorn, Thomas Veltman
- 2003 – 2004** Jeff Barton, Jesse Gutnick, Eric Muller, Adam Stover

TEACHING EXPERIENCE

Haverford College (2003 – Present)	Year
Chem 100 General Chemistry, lecture and laboratory,	2004, 2008, 2009
Chem 105 Advanced General Chemistry, lecture and laboratory	2004, 2005, 2008
Chem 301 Laboratory in Chemical Structure and Reactivity,	2003, 2004, 2007

Chem 302 Laboratory in Chemical Structure and Reactivity	2009
Chem 320 Concepts in Inorganic Chemistry	2008, 2009
Chem 353 Topics in Materials Science	2004 – 2006, 2008, 2009
Chem 354 Solid State Chemistry	2008, 2009
Chem 369 Research Tutorial in Materials Science	2003 – 2009
Chem 391 Departmental Seminar	2004, 2006, 2007
Chem 480 Independent Study	2008, 2009

HAVERFORD COMMITTEE ASSIGNMENTS

Committee on Student Standing and Programs 2004 – 2006
Haverford College chemistry department ad-hoc search committee 2005
Haverford College chemistry department ad-hoc search committee 2007
Koshland Integrated Natural Sciences Center Steering committee 2007 – 2010
Laboratory Safety Committee 2009 - 2010