

BIOGRAPHICAL SKETCH

Joanne L. Stewart

A. Professional Preparation

Kalamazoo College	Chemistry	B.A., 1982
U.C. Berkeley	Inorganic Chemistry	Ph.D., 1988

B. Appointments

Professor, Department Chemistry, Hope College, 1999-Present
Visiting Scholar, U.C., San Diego, 2001-2002
Associate Professor, Department of Chemistry, Hope College, 1994-1999
Visiting Scientist, Harvard University, 1994-1995
Assistant Professor, Department of Chemistry, Hope College, 1988-1994
Associate Staff Chemist, General Electric, 1982-1983

C. Publications (*indicates undergraduate co-author)

Most closely related to the proposed project:

1. Benatan, E., Eppley, H. J., Geselbracht, M. J., Johnson, A. R., Reisner, B. A., Stewart, J. S., Watson, L. 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 July 8, 2008).
2. Leah A. Chase, Joanne Stewart, and Christopher C. Barney, "Cultivation of an Interdisciplinary, Research-Based Neuroscience Minor at Hope College" *Journal of Undergraduate Neuroscience Education*, Fall 2006, 5(1):A6-A13. Full paper available at <http://www.funjournal.org/downloads/ChaseJUNEF06.pdf>.
3. Joanne L. Stewart, "Assessment and Evaluation of the Undergraduate Research Experience," in *Enhancing Research in the Chemical Sciences at Predominantly Undergraduate Institutions: A Report from the Undergraduate Research Conference*, Bates College, August 2-4, 2003. Full paper available at <http://abacus.bates.edu/acad/depts/chemistry/twenzel/assessment.pdf>.
4. Stewart, J.L., Wilkerson, V.* "ChemConnections: A Guide to Teaching with Modules," W.W. Norton & Company: New York, 2003.
5. Lisensky, G.C., Ellis, A.B., Beall, H., Campbell, D.J., Stewart, J.L., *Build a Better CD Player: How Can You Get Blue Light From a Solid?* W.W. Norton & Company: New York, 2003.

Other significant publications:

1. Van Zaandt, W.* Huffman, J.C., Stewart, J.L., "Synthesis and X-ray Crystal Structure of a Lead Aryl Oxide Dimer, $\text{Pb}_2(\mu\text{-O-2,6-Ph}_2\text{C}_6\text{H}_3)_2(\text{O-2,6-Ph}_2\text{C}_6\text{H}_3)$," *Main Group Metal Chemistry* **1998**, 21, 237-240.
2. Stewart, J.L., Andersen, R.A., "Trivalent uranium chemistry: molecular structure of $[(\text{Me}_3\text{Si})_2\text{N}]_3\text{U}$," *Polyhedron* **1998**, 17, 953-958.
3. Stewart, J.L. and Andersen, R.A., "Crystal Structures of $[(\text{Me}_3\text{Si})_2\text{N}]_4\text{U}_2[\mu\text{-N(H)-(mesityl)}]_2$; Compounds with Asymmetrically Bridging Primary Amide and Imide Groups." *New J. Chem.*, **1995**, 19, 587-595.
4. Kras, L.H.*, Euvrard, A.*, Grassl, Y.N.*, Ronda, S.M.* and Stewart, J.L., "Synthesis of $\text{Sn}[\text{OCH}(t\text{-Bu})_2]_2$ and $\text{Sn}[\text{OSi}(t\text{-Bu})_3]_2$: Variable Temperature ^1H and ^{119}Sn NMR Studies," *Main Group Metal Chemistry*, **1994**, 17, 409-412.

D. Synergistic Activities

- Director of Hope College HHMI Program, 2008-2012. Program supports new biomedical research collaborations, K-12 science teacher training, and increasing diversity in science.
- Carnegie Scholar, 2005-2006. Interdisciplinary curriculum development and research on student integrative learning in science.
- HHMI Director of Integrative Learning in Science, Hope College, 2005-present. Leading faculty development and curriculum development for HHMI program at Hope College.
- Workshop leader for the Multi-initiative Dissemination Project. Workshops introduced faculty to the four NSF Systemic Change Initiatives in Chemistry (2000-2006).
- External review panel member for department reviews: Colorado College, 1997; Muskingum, 1999; St. Olaf, 2000; Macalester, 2001; Lewis & Clark, 2002; Smith College, 2006.

E. Collaborators and other Affiliations

Christopher Barney, Hope College
Randy Bass, Georgetown
Ethan Benatan, Reed College
Leah Chase, Hope College
Heidi Elmendorf, Georgetown
Hilary Eppley, Depauw University
Tricia Ferrett, Carleton College
Maggie Geselbracht, Reed College
Adam Johnson, Harvey Mudd College
Sandra Laursen, Univ. of Colorado, Boulder
Barbara Reisner, James Madison University
Mary Walczak, St. Olaf College
Lori Watson, Earlham College
Scott Williams, Claremont Colleges

Graduate and Postdoctoral Advisors: Dr. Richard A. Andersen (Ph.D.), no postdoctoral advisor

Thesis Advisor and Postgraduate-Scholar Sponsor: None.

Undergraduate Research Students Supervised: 54