AALAC/Mellon 23 Collaborative Workshop Proposal

December 17, 2010

Designated Workshop Liaison: Elizabeth Jamieson, Smith College, ejamieso@smith.edu

AALAC Workshop Organizers:
Hilary Eppley, DePauw University
Margaret Geselbracht, Reed College
Elizabeth Jamieson, Smith College
Adam Johnson, Harvey Mudd College
B. Scott Williams, Joint Science Department, Scripps College

non-AALAC Workshop Speakers:
Sheila Smith, University of Michigan- Dearborn
Joanne Stewart, Hope College

Project Description:
The field of inorganic chemistry is one of the broadest in chemistry, covering the entire Periodic Table of the Elements. For faculty with diverse teaching loads and deep yet narrow graduate training within a specific subdiscipline of inorganic chemistry, curricular innovation faces considerable barriers. Collaboration with colleagues from different inorganic subfields would be an obvious solution to this problem, but geographical and professional isolation, especially at small institutions, inhibits such collaborations.

We seek to enhance the inorganic chemistry classroom experience for students and faculty members by inviting AALAC chemists to become part of IONIC (Interactive Online Network of Inorganic Chemists), a vibrant virtual ‘community of practice.’ We propose to whet their interest with a web conference that will introduce them to the web-based collaboration tools IONiC uses and to IONiC’s web home, VIPER (Virtual Inorganic Pedagogical Electronic Resource, www.ionicviper.org). The online meeting will be followed by a face-to-face workshop that will enable participants to:
- become familiar with technology tools to maintain contact with other inorganic chemists and increase interactivity between inorganic classes (Google docs, Skype, Elluminate, Ning, VIPER)
- develop content for their classes and learn to share that content with others on VIPER
- take home an inorganic “learning object” (in-class activity, literature discussion, etc.) that they can readily implement in their class
- discuss strategies for best practices for implementing and assessing learning objects
- learn new inorganic content outside their comfort zone

Who should attend:
1. Inorganic Faculty will be our primary focus. To date, we have identified 5 other AALAC chemists who are interested in attending.
2. Faculty who teach general chemistry. Many of the VIPER resources are suitable or readily adaptable for general chemistry courses.
Proposed Workshop Schedule:
The web conference will be scheduled for May or June 2011. We will use Elluminate, accessible through Smith College, as the platform for our online interaction.

The web conference will be used to introduce participants to one another to begin building the personal connections that are critical to successful collaborations. The capabilities of Elluminate will be demonstrated. Participants will be introduced to the VIPER resource and become registered users. Finally, the goals of the face-to-face workshop will be described and participant feedback on those goals will be sought.

The face-to-face workshop will be held in July 2011 and will begin on a Friday with a "getting to know you" social hour and dinner and end on Sunday at noon. A more detailed schedule is included as an addendum.

Impact of Workshop:
Faculty participants will become part of a teaching and learning community, learn about creative, successful teaching approaches for inorganic chemistry, and learn about Web 2.0 technologies for collaboration. The impact will be assessed through 1) pre- and post-workshop surveys that ask about community engagement, Web 2.0 technologies, and teaching with VIPER learning objects, 2) the submission of new VIPER learning objects by workshop participants, and 3) 3- and 9-month follow-up virtual meetings to discuss the impact of the workshop on teaching and research.

Preliminary Budget:
Stipend for primary workshop organizers (to be shared) = $1000
Travel expenses for 4 AALAC workshop organizers @ $800 each = $3200
Travel expenses for 12 AALAC workshop participants @ $500 each = $6000
Travel expenses for 2 non-AALAC workshop speakers @ $800 each = $1600
Food   $60 per day x 2 days x 19 participants = $2280
Lodging $135 per day x 2 nights x 18 participants = $4860
Administrative expenses & Assessment of workshop = $1000
TOTAL = $19,940
Addendum - Proposed schedule for face-to-face workshop

Friday
4:00 pm Social hour and 'getting to know you' ice breakers
6:00 pm Dinner and welcome
7:00 pm After dinner, overview of VIPeR and intro to learning object design (Mini-workshop on backward design by Stewart)
8:00 pm Small group (birds of a feather) sharing of learning object ideas

Saturday
8:00 am Breakfast
9:00 am Playing on VIPeR, view learning objects and learn about commenting, forums, RSS feeds (Jamieson/Smith)
9:45 am Writing a learning object, pedagogical considerations, VIPeR requirements
10:30 am Break
11:00 am Working on learning objects either collaboratively or independently
12:00 pm Lunch
1:00 pm Using other social networking technologies: Skype, Elluminate, Google docs, Delicious, Ning (Eppley/Williams)
2:30 pm Break
3:00 pm Teaching a learning object - participants will share what they have developed in small groups
4:30 pm Inter-institutional teaching - IONIC and workshop participants will share their experiences with using technology to bring classes from different institutions together (Johnson/Geselbracht)
6:00 pm Dinner and social outing

Sunday
8:00 am Breakfast
9:00 am Post your learning object on VIPeR
10:30 am Break
11:00 am Whole group session: Where do we go from here? VIPeR development ideas (versioning). Personal action plans.
12:00 pm Box lunches available for participants as they leave
Hilary J. Eppley, Ph.D.

Professional Preparation
Indiana University Inorganic Chemistry Ph.D., 1996
Indiana University Bioinorganic Chemistry Postdoctoral Appnt. 1997-1999

Appointments
DePauw University, Director of the Science Research Fellows Program 2008-present
DePauw University, Associate Professor 2005-present
DePauw University, Assistant Professor (converted to tenure track Dec 2000) 1999-2005
Indiana University, Postdoctoral Appointment, Helen Hay Whitney 1997-1999
Postdoctoral Fellow 1991-1996
Indiana University, Research Assistant, NSF Graduate Fellow, Procter and Gamble Fellow, IU Dissertation Year Fellow

Most Relevant Publications (27 total)


Most Relevant Grants (excludes both external and internal research grants)

Synergistic Activities
• Founding member of IONiC (Interactive On-Line Network of Inorganic Chemists): www.ionicviper.org (2005-present) We have developed a Web 2.0-enabled virtual community of practice devoted to the teaching of inorganic chemistry as well as the electronic resource, VIPER (Virtual Inorganic Pedagogical Electronic Resource). The website serves as a teaching repository and a community building tool for teachers of inorganic chemistry. Through this group I have written papers and grants related to this project, given presentations on both the VIPER resource and strategies on electronic collaboration strategies, and run workshops for learning object development.

• Served as Director of DePauw's Science Research Fellows Program and sponsored and supported undergraduate research in a variety of ways: I have mentored 35 students in eight years, supervised 39 presentations of my students at external meetings (including 8 at National American Chemical Society Meetings) and served on the Science Research Fellows steering committee which oversees DePauw's research-based science honors program. Since July 2008, I have served as the Director of this program. Some accomplishments during and prior to that tenure included directing a large portion of the program's self-study, revamping the senior seminar to include service learning and an original research proposal, and expanding a co-curricular summer symposium series.

• Contributed course materials I developed to several on-campus teaching workshops on writing and active learning in science classes, participated in several off-campus workshops on effective teaching techniques, contributed to departmental curricular reform efforts, and shared new inorganic chemistry course materials with the wider community: Two examples include presentation on using chemical information in an upper level inorganic chemistry course at the Biennial Conference on Chemical Education (2008) and presenting a novel First Year Seminar course (Rust, Blood, and Magnets) at BCCE (2006).

• Served as Chair of the Younger Chemists Committee for the Indiana Section of the American Chemical Society: In this position I initiated a poster session that brings together industrial chemists and undergraduate and graduate student presenters for a poster session. This poster session typically attracts about 75 posters and 120 attendees and has garnered several National American Chemical Society awards and award nominations, including Best Local Section YCC activity in 2004. I supervised the planning of this poster session from 2000 to 2005.

• Serve as a leader in university activities and participated in Leadership Development Workshops: I have served as chair of DePauw’s Admission’s committee (2006), and as one of its two Great Lakes College Association representatives (2005-2006, 2007-2008). I have participated in a variety of leadership development workshops, including the PKAL Assembly: Shaping General Education Programs Focused on Quantitative and Scientific Literacy (Fall 2003), a National American Chemical Society’s Leaders Conference (Winter 2005) and three COACH Workshops (Spring 2007, 2009, 2010).
BIOGRAFICAL SKETCH — DR. MARGRET J. GESELBRACHT

PROFESSIONAL PREPARATION
University of Notre Dame du Lac  Chemistry  B.S. 1986
University of California Berkeley  Chemistry  Ph.D. 1991

APPOINTMENTS
MacArthur Professor of Chemistry, Chemistry Department Chair, Reed College, 2010–present
Professor of Chemistry, Reed College, 2006–2010
Visiting Scientist, U.S. Naval Research Laboratory, 2006–2007
Associate Professor of Chemistry, Reed College, 1998–2006
Visiting Scientist, Oxford University, Inorganic Chemistry Laboratory, 1999–2000
Assistant Professor of Chemistry, Reed College, 1993–1998

PUBLICATIONS RELATED TO THE PROPOSED PROJECT


OTHER SIGNIFICANT PUBLICATIONS
(UNDERGRADUATE CO-AUTHORS UNDERLINED)


SYNERGISTIC ACTIVITIES

- Founding member of the IONIC Leadership Council (Interactive Online Network of Inorganic Chemists). With funding from NITLE and the NSF CCLI program, developed and launched VIPEr (www.ionicviper.org), an online resource to support a virtual community of practice for improving inorganic chemistry education. VIPEr was featured in the Journal of Chemical Education, 2008, 85, 1342.

- Collaborator in "A Distributed Combinatorial Search for Water Splitting Photocatalysts", research project directed by Prof. Bruce A. Parkinson (University of Wyoming) and funded by the Special Grant Program in the Chemical Sciences, Camille and Henry Dreyfus Foundation, $45,000, 2008-09.


- Invited contributor to the NSF Workshop on Materials, St. Louis, MO, October, 2006.


GRANTS

1) National Science Foundation, "MRI: Acquisition of a Multi-Institutional, Multi-Departmental, Modern X-Ray Diffraction System to Anchor a Portland Area Materials Characterization Group." Andrea M. Goforth (Portland State University), Anne K. Bentley (Lewis and Clark College), and Margret J. Geselbracht (Reed College), 2009-2011, $225,624. (Award #DMR-0923572)

2) 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 (Award #DUE-0737030).

3) 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.

GRADUATE ADVISOR: Prof. Angelica M. Stacy, University of California Berkeley

POSTDOCTORAL ADVISOR: Prof. Arthur B. Ellis, University of California San Diego

Undergraduate Research Students (since 1993): 45
Undergraduate Theses Advised (since 1993): 32
ELIZABETH REDDING JAMIESON

a. Professional Preparation
Smith College, magna cum laude (with highest honors in Chemistry), A.B., 1994
Massachusetts Institute of Technology, Inorganic Chemistry, Ph.D., 2000
Boston University, NIH Postdoctoral Fellow, Chemistry Department, 2000-2001

b. Appointments
Associate Professor of Chemistry, Smith College, 2009-present
Assistant Professor of Chemistry, Smith College, 2001-2009

c. Publications
Related to the proposed project:

"Come for the Content, Stay for the Community," E. Benatan, J. Dene, H. Epplle, M.
Geselbracht, E. Jamieson, A. Johnson, B. Reisner, J. Stewart, L. Watson, and B. Williams, in
September 10, 2009).

"JCE VIPER: An Inorganic Teaching and Learning Community," E. Benatan, J. Dene, H. J.

Other significant publications (* denotes undergraduate co-author):

"Identifying Protein Interactions with Metal-Modified DNA Using Microarray Technology,"
2009, 14, 193-199.

"Impact of the Oxidized Guanine Lesion Spiroiminodihydrantoin on the Conformation and
Thermodynamic Stability of a 15-mer DNA Duplex" F. Chinyengetere and E.R. Jamieson,
Biochemistry, 2008, 47, 2584-2591.

"C4' Sugar Oxidation of Deoxyribonucleotide Triphosphates by Chromium(V) Complexes" T.

"A General Synthesis of Specifically Deuterated Nucleotides for Studies of DNA and RNA" B.
Chen, E.R. Jamieson, and T.D. Tullius, Bioorganic and Medicinal Chemistry Letters 2002, 12,
3093-3096.

"DNA Sequence Context Modulates the Impact of a Cisplatin 1,2-d(GpG) Intrastrand Cross-link
on the Conformational and Thermodynamic Properties of Duplex DNA" D.S. Pilch, S.U.

"Stopped-Flow Fluorescence Studies of HMG-Domain Proteins Binding to Cisplatin-Modified
d. Synergistic Activities

- Member of Leadership Council for the Interactive Online Network of Inorganic Chemists (IONIC), a project funded by an NSF CCLI grant, since July 2008
- Co-PI for NSF MRI Grant, Acquisition of a 500 MHz NMR, August 2009
- PI for NSF MRI Grant, Acquisition of Aqueous Biogeochemistry Facilities, August 2007
- Research Rewards Grant recipient, TriLink Biotechnologies, July 2007
- Franklin Research Grant recipient, American Philosophical Society, March 2005
- Professional/Honor Society Memberships: American Chemical Society, Council on Undergraduate Research, Sigma Xi, Phi Beta Kappa, Iota Sigma Pi
- Member of advisory committee for the Smith College Biochemistry Program
- Member of the Chemistry Department subcommittee to address under-representation and success of students of color in courses and former member of advisory board for Clark Science Center’s Inreach/Outreach program for underrepresented students in the sciences

e. Collaborators

Research: Prof. Megan E. Nunez, Mt. Holyoke College
Prof. Cristina Suarez, Smith College

Education:
Prof. Hillary P. Eppley, DePauw University; Prof. Margaret J. Geselbracht, Reed College; Prof. Adam R. Johnson, Harvey Mudd College; Prof. Barbara Reisner, James Madison University; Prof. Sheila Smith, University of Michigan Dearborn; Prof. Joanne Stewart, Hope College; Prof. Lori Watson, Earlham College; Prof. B. Scott Williams, JSD, Claremont Colleges

Graduate Advisor: Prof. Stephen J. Lippard, Massachusetts Institute of Technology

Postdoctoral Advisors: Prof. Thomas D. Tullius, Boston University

Undergraduate Research Students:

Total number of undergraduate research students supervised: 28
Total number of undergraduate honors theses supervised: 4 (denoted with *)

Julia Park,* Candice Kwon, Chynna Chou, Ma Thida, Chi Gao, Pyae Naing, Melissa Wong, Megan Dwarkanath,* Maud Martei, Holly Boyle, Liz Liao, Melinda Ng, Kristin Wilson, Jiying Zhao, Ingrid Boedker, Jennie Brown, Panniya Masrangsan, Salome Ngatia, Fadzai Chinyengetere,* Bethany Kulczewski, Angela Lane, Kyle Lybrand, Hope Stansfield, Kereida Beadle, Tahmeena Chowdhury, Emilia Connolly,* Megan Murphy, Lauren Nichols
Biographical Sketch – Dr. Adam R. Johnson

A. Professional Preparation
Oberlin College, Chemistry (high honors)  B.A. 1993
Massachusetts Institute of Technology, Inorganic Chemistry  Ph. D. 1997
University of California, Berkeley, NIH postdoctoral fellow  1997-1999

B. Appointments
Associate Professor of Chemistry, Harvey Mudd College  2005-
Visiting Associate in chemistry, California Institute of Technology  2005-2006
Assistant Professor of Chemistry, Harvey Mudd College  1999-2005

C. Publications (#1-5 most closely related to the project)
(23 published, * indicates undergraduate co-author)


Biographical Sketch - 1


D. Synergistic Activities
- Founding member and Leadership Council of IONiC (Interactive Online Network of Inorganic Chemists, www.ionicviper.org)
- Summer Undergraduate Research Coordinator (NSF-REU)
- Mentoring undergraduate researchers (40 students over the past 12 years).
- Redesign of the inorganic chemistry and laboratory curriculum at Harvey Mudd College with a focus on inquiry-based learning and group work, modern synthetic techniques and technical writing
- Session Chair IATED, Barcelona, Spain, July 6-8, 2009
- President, and Vice President, Claremont Colleges Chapter of Sigma Xi (scientific research honor society)
- Member, American Chemical Society, Sigma Xi

E. Collaborators and Other Affiliations (2006-present)
Ethan Benatar, Reed College (computer user services)
Brette M. Chapin, Harvey Mudd College (undergraduate student)
Hilary J. Eppley, DePauw University (faculty)
Margret J. Geselbracht, Reed College (faculty)
Amanda J. Hickman, University of Michigan (graduate student)
Lauren D. Hughs, University of Washington (employee)
Elizabeth R. Jamieson, Smith College (faculty)
Casey M. Jones, Princeton University (graduate student)
Katherine E. Near, Stanford University (graduate student)
Barbara A. Resiner, James Madison University (faculty)
Joanne E. Redford, University of Wisconsin (graduate student)
Arnold L. Rheingold, University of California, San Diego (faculty)
Sheila R. Smith, University of Michigan, Dearborn (faculty)
Joanne L. Stewart, Hope College (faculty)
Lori Watson, Earlham College (faculty)
B. Scott Williams, Claremont Colleges Joint Science Department (faculty)

*Graduate advisor:* Christopher C. Cummins, Massachusetts Institute of Technology
*Postdoctoral advisor:* Kenneth N. Raymond, University of California, Berkeley

Total number of undergraduate research students advised: 39
Total number of post-doctoral research advisees: 1
Total number of undergraduate theses supervised: 22
CURRICULUM VITA

Sheila Rose Smith
Associate Professor of Chemistry
sheilars@umd.umich.edu

Department of Natural Sciences
University of Michigan- Dearborn
4901 Evergreen Rd.
Dearborn, MI 48128
313-583-6399

17117 Russell Ave
Allen Park, MI 48101
734-788-8144

Education

Post-Doctoral Research Associate.—Chemistry 1997- 2001
Michigan State University, East Lansing, MI
Ph.D.—Inorganic Chemistry February 1997
University of North Carolina, Chapel Hill, NC
B.S.—Chemistry, ACS May 1992
North Carolina State University

Publications


[10] Smith, S.R.; Pala, J.; and Benore-Parsons, M. "Riboflavin Binding Protein Contains a Type II Copper Binding Site." Journal of Inorganic Biochemistry, 2006, 100, 1730-1733.


Selected Presentations (2009-2010)


National Service (2009-2010)

Member, Leadership Council, Interactive Online Network of Inorganic Chemists (IONIC)
Session Chair, two sessions, 239th National Meeting of the American Chemical Society, San Francisco, CA, March 2010.
National AP Exam Reader

Grants (2009-2010)

ARRA Summer Supplement for Students and Science Educators, NIH, $18,000 (Stemmler Lab, Wayne State University School of Medicine)
Biographical Sketch

Joanne L. Stewart
Professor of Chemistry
www.hope.edu/academic/chemistry/faculty/stewart/
Department of Chemistry
Hope College
Holland, MI 49423

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

Appointments
Professor, Department Chemistry, Hope College, 1999-Present
Visiting Academic, University of Queensland, 2008-2009
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

Publications

Most closely related to the proposed project:
*undergraduate researcher

Watson, L. and Williams, B. S. IONic: A Cyber-Enabled Community of Practice for

Reisner, B. A.; Stewart, J. L.; Watson, L. A.; Williams, B. S. JCE VIPEr: An Inorganic

Stewart, J., Watson, L. and Williams, B.S. “Come for the Content, Stay for the Community,”
(http://www.academiccommons.org/commons/essay/come-content-stay-community,
accessed September 2009).

4. Leah A. Chase, Joanne Stewart, and Christopher C. Barney, “Cultivation of an
Interdisciplinary, Research-Based Neuroscience Minor at Hope College” Journal of
http://www.fjniournal.org/downloads/ChaseJUNEf06.pdf


Other significant publications:

1. Lisensky, G.C., Ellis, A.B., Beall, H., Campbell, D.J., Stewart, J.L., Build a Better CD
2003.
2. Van Zaandt, W.* Huffman, J.C., Stewart, J.L., “Synthesis and X-ray Crystal Structure of a Lead Aryl Oxide Dimer, \( \text{Pb}_2(\text{\(\mu\)-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.


5. Kras, L.H.*, Euvrard, A.*, Grassl, Y.N.*, Ronda, S.M.* and Stewart, J.L., “Synthesis of \( \text{Sn}[\text{OCH}(\text{i-Bu})_3]_2 \) and \( \text{Sn}[\text{OSi}(\text{i-Bu})_3]_2 \); Variable Temperature \( \text{H}^1 \) and \( \text{Sn}^{119} \) NMR Studies,” *Main Group Metal Chemistry,* 1994, 17, 409-412.

**Synergistic Activities**

- Director of Hope College Howard Hughes Medical Institute Program, 2008-present.
- Carnegie Scholar, 2005-2006. Interdisciplinary curriculum development and research on student integrative learning in science.
- HHMI Director of Integrative Learning in Science, Hope College, 2005-2008. Led faculty development and curriculum development for HHMI program at Hope College.
- Keck-Project Kaleidoscope consultant on issues of active/cooperative learning, science building design, and women in science (1994-present).
- External review panel member for department reviews: Colorado College, 1997; Muskingum, 1999; St. Olaf, 2000; Macalester, 2001; Lewis & Clark, 2002; Smith College, 2006, Drew University, 2009.

**Collaborators:**

Hilary Eppley, DePauw University
Margret Geselbracht, Reed College
Elizabeth Jamieson, Smith College
Adam Johnson, Harvey Mudd College
Gwen Lawrie, University of Queensland
Barbara Reisner, James Madison University
Lori Watson, Earlham College
B. Scott Williams, Joint Science Department, Claremont Colleges
Christopher Barney, Hope College
Leah Chase, Hope College
Tricia Ferrett, Carleton
Sandra Laursen, Univ. of Colorado, Boulder
Mary Walczak, St. Olaf College

**Graduate and Postdoctoral Advisor:** Dr. Richard A. Andersen, University of California, Berkeley

**Undergraduate Research Students Supervised:** 53
B. Scott Williams, Associate Professor of Chemistry  
Joint Science Department of the Claremont Colleges  
Scripps, Claremont McKenna, and Pitzer Colleges  
Biographical Sketch

Professional Preparation
Harvey Mudd College  
Chemistry  
B.S., 1995
University of Washington, Seattle  
Inorganic Chemistry  
Ph.D., 2000
Universiteit Utrecht, Utrecht, The Netherlands  
Metal-Mediated Synthesis  
Postdoc, 00-
01
University of North Carolina, Chapel Hill  
Organometallic Chemistry  
Postdoc, 01-
03

Appointments
2009-present  
Associate Professor of Chemistry, W. M. Keck Science Center (Joint  
Science Department), The Claremont Colleges, Claremont, CA
2009-2010  
Visiting Scholar, Department of Chemistry and Biochemistry, Rutgers: The  
State University of New Jersey, Piscataway, NJ
2007  
Visiting Scientist, Chemistry Department, University of Washington,  
Seattle, WA
2003-2009  
Assistant Professor of Chemistry, W. M. Keck Science Center (Joint  
Science Department), The Claremont Colleges, Claremont, CA
2001-2003  
Postdoctoral Fellow, Chemistry Department, University of North Carolina,  
Chapel Hill.
2000-2001  
NSF-NATO Postdoctoral Fellow, Department of Metal-Mediated Synthesis,  
Debye Institute, Universiteit Utrecht, Utrecht, The Netherlands.

Publications

A. Publications most closely related to the proposed project

Stewart, J. L.; Watson, L. A.; Williams, B. S. “Building an Online Teaching Community: An  
Evolving Tale of Communication, Collaboration and Chemistry” in Enhancing Learning with  
Online Resources, Social Networking and Digital Libraries; Pence, H; Moore, J.; Belford, R.,  
Eds.; to be published by the American Chemical Society Press. In press.

2. Williams, B. S. “Sceptical Chymists Online: How the Practice, Teaching, and Learning of  
Science Will be Affected by Web 2.0” in Enhancing Learning with Online Resources, Social  
Networking and Libraries; Pence, H; Moore, J.; Belford, R., Eds.; to be published by the  
American Chemical Society Press. In press.

3. “Visible Teaching: Moving from a Solitary Practice to a Community Endeavor” Reisner, B.  
http://pubs.acs.org/doi/abs/10.1021/ed800104t


B. Other Publications


Affiliations and Awards:

2009: NITLE and Academic Commons Community Contribution Award (for VIPer) to recognize and promote exemplary projects that make effective use of available technologies and resources

2003: Camille and Henry Dreyfus Faculty Start-up Awardee

2001: NSF-NATO Postdoctoral Fellow