

CURRICULUM VITAE

Andrea E. Martin, Ph.D.

Widener University
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Education

Columbia University, Postdoctoral Appointment, Stephen J. Lippard laboratory, New York, NY, 1981–1982; NIH Fellowship

University of Delaware, Department of Chemistry and Biochemistry, Newark, Delaware
Ph.D., Inorganic Chemistry, Spring, 1981
Dissertation: *Binuclear Transition Metal Complexes of New Monocyclic and Bicyclic Hexamine Ligand*, Professor John E. Bulkowski, Advisor
Joel Silver Memorial Award winner for presentation of graduate research

Ursinus College, Collegeville, PA
B.S., Chemistry, 1975
Campus Council president, student laboratory assistant, National Merit Scholarship

Teaching and Instruction

Widener University

Associate Professor of Chemistry	September 2011 to present
Assistant Professor of Chemistry	September 2004 to August 2011
Visiting Assistant Professor of Chemistry	September 2003 to August 2004
Adjunct Professor	May 2002 to August 2003

Courses Taught

- Advanced Inorganic Chemistry (CHEM 475), upper level course for chemistry majors
- Advanced Inorganic Chemistry Lab (CHEM 477), upper level class for ACS-accredited chemistry majors
- Inorganic Chemistry (CHEM 375), sophomore level class for chemistry majors and minors
- General Chemistry I and II (CHEM 145 and 146), freshman level course for science and engineering majors
- General Chemistry I and II Lab (CHEM 147 and 148), labs to accompany CHEM 145/146
- General, Organic and Biochemistry (CHEM 105), one-semester integrated course for nursing majors
- General, Organic and Biochemistry Lab (CHEM 106), lab to accompany CHEM 105
- Introduction to Chemistry I and II (CHEM 101 and 102, formerly CHEM 205), general, organic and biochemistry class for pre-physical therapy students in the humanities and social sciences
- Introduction to Chemistry Lab I (CHEM 103), lab to accompany CHEM 101

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- Chemistry and Everyday Life (CHEM 100), general chemistry course for non-science and engineering majors
- Developmental Chemistry (CHEM 097), introductory chemistry course for science students placing into MATH 101, coordinated with MATH 101 and a specially designed freshman seminar as an initiative for retention of science majors
- Freshman Orientation (CHEM 007), course designed to help new freshman chemistry majors get acquainted with the department
- Introduction to Environmental Science (ENVR 100), for non-science majors; taught as a college credit course to a select group of students at Kennett High School, Kennett Square, PA
- Freshman Seminar (FRS 101): (1) seminar course to accompany CHEM 097, coordinated with MATH 101 (F2011), (2) logic puzzles (F2013)
- Research Experience (CHEM 498), mentored three students for their required senior research experience
- Laboratory Coordinator for CHEM 103, 106, 147, and 148, coordinated from 6 to 12 sections of freshman labs (from 5 to 10 instructors and 80 to 200 students), typically one course coordinated most semesters

Delaware Technical & Community College

Adjunct Professor of Chemistry

January 2002 to May 2003

Courses Taught

- Introduction to Organic and Biochemistry Lecture and Lab (CHEM 111), second semester course for nursing majors

University of Delaware

Teaching Assistant

September 2002 to May 2003

Courses Taught

- General Chemistry II Lab (CHEM 104), second semester lab for science (non-chemistry) majors)
- General Chemistry (CHEM 105), first semester general chemistry for nursing students
- Inorganic Chemistry Laboratory (CHEM 458), junior and senior chemistry majors

Hercules Incorporated

- Taught internal course on Interaction Management
- Gave technical sales presentations and spoke at technical conferences

Additional Employment Experience

- 2003-2005 - IFI Claims
 - Consultant/Trainer/Technical Indexer
- 2000-2001 - Synchrogenix Information Strategies, Inc.
 - Sales Manager
- 1982-2000 - Hercules Incorporated
 - Account Representative, Aqualon Division, January 1998–February 2000
 - Inside Sales Representative, Aqualon Division, 1997
 - Technical Service Representative, Paper Technology Division, 1996
 - Research and Development, 1982–1995

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- Research Scientist, Corporate Research and Paper Technology Divisions, 1992-1995
- Senior Research Chemist, Chemical Sciences, Advanced Materials, and Corporate Research Divisions, 1988-1992
- Research Chemist, Chemical Sciences Division, 1982-1988
- Other experience while at Hercules
 - Chair of the organizing committee, ISOM-9 (Ninth International Symposium on Olefin Metathesis)
 - Technical expert for US and European patent litigation
 - Member, Hercules Incorporated Corporate Ethics Committee
 - Vice President, Hercules Country Club Board of Directors
 - On-campus recruiter

Widener Student Research Projects (chemistry and chemical engineering students indicated in **bold**)

- **Paul St. Marie** (Fall 2013), Senior Research Project, “Silver(I) complexes of binucleating macrocyclic ligands and mononuclear model systems. Crystal structure of two Ag^{+1} compounds”
- **Lauren Holsinger** (Fall 2012), Senior Research Project, “Synthesis of 1,4,7,11,14,17-hexaazacycloeicosane”
- **Erika Druckenmiller** (Spring 2012), Senior Research Project, “Copper complexes of binucleating macrocyclic ligands”
- **Alysha Moretti, Erika Druckenmiller, Matthew Raymond**, Louise Liable-Sands and Andrea Martin (Spring 2012) Chemistry outreach at Widener University through the Student Affiliates Chapter of the American Chemical Society – Chemistry Club
- **Alysha Moretti, Kevin Blattner, Chris Annunziato**, Louise Liable-Sands, Andrea Martin and Scott Van Bramer (Spring 2011) Refine, refurbish and revitalize the chemistry lab experience
- **Chris Annunziato, Kevin Blattner, Wayne Karnas, Alysha Moretti, Kassandra Pelton and Michael Polen** (Summer 2010) Synthesis of metal complexes of a macrocyclic ligand and a ‘half-ring’ analog chemistry (in collaboration with Professor Louise Liable-Sands)
- (April 2010) Summer Research Experience for College Freshmen (in collaboration with Professor Louise Liable-Sands)
- **Erika Druckenmiller and Brittney Offenbacher** (Summer 2009) Synthesis and characterization of a Macrocyclic Ligand and a new copper complex (in collaboration with Professor Louise Liable-Sands)
- **Olatilewa Adetula** (Summer 2009) Synthesis of a ‘Half-ring’ model ligand
- **Ainalen Preciado and Luke Weincek** (Spring 2008) Synthesis of a macrocyclic ligand

University Involvement

University Committees

- Middle States Self-Study Steering Committee and Co-Chair of Working Group on Planning, Resources, and Institutional Improvement, Spring 2015
- Co-Chair, Strategic Planning GO Team, Institutional Agility & Innovation – Summer 2013 - present
- Chair, Budget and Planning Assessment, Fall 2011- present
- Faculty Council Executive Committee, Fall 2011- present
- Member of Faculty Council, Fall 2011-Spring 2013 and Fall 2007 – Spring 2009
- A&S Representative to Budget & Planning Assessment, Fall 2009 – Spring 2011

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- A&S Representative to Faculty Council Academic Affairs, Fall 2007 – Spring 2009
- Search Committee for Director, Office of Pedagogical Support, Fall 2008 – Fall 2009

College Committees

- A&S Strategic Planning Committee, Spring 2015
- A&S Faculty Affairs Committee, Fall 2009 – Spring 2011
- A&S Curriculum and Planning Committee, Fall 2007 – Spring 2009
- Women's History Month Committee, Fall 2008
- A&S Representative to University College Faculty Council, Fall 2005 – Spring 2007
- Women's Studies Strategic Planning Committee, Spring 2007

Science Division Committees

- Science Strategic Planning Committee, Spring 2015
- SIRF (Science Initiation for the Retention of Freshmen), Fall 2011 – Spring 2013
- Science Division Secretary, Fall 2005 – Spring 2009
- Science Administration Curriculum Committee/Sustainability Management Curriculum Committee, Fall 2010 to present (co-chair with Prof. Sue Greenberg, SBA)
- Representative to MLS Advisory Committee (sabbatical replacement), Spring 2010
- Safety Committee, Fall 2005 – Spring 2007
- Ad Hoc Merit Committee, Fall 2006

Chemistry Department Committees

- Visiting Assistant Professor Search Committee, Spring 2008

Other Academic Activities

- Member, American Chemical Society Division of Chemical Education Regional Meetings Committee (2015-2017)
- Advisor, Alpha Chi Sigma National Chemistry Fraternity, Gamma Omega Chapter at Widener University
- Chem Club Advisor (sabbatical replacement), spring 2013
- Widener Science Accepted Student Day activity leader, 2013
- Widener University Visioning Conference, 2013
- Bridge Week Session Leader, 2011, two sessions (Quantitative Reasoning, Learning Assistant Program)
- Bridge Week Session Leader, 2008, two sessions (Academic Integrity, Learning Assistant Program)
- Commencement Marshal
- Widener Day and Accepted Student Day Volunteer
- Science Teaching Center Advisory Committee
- Writing Enriched Faculty Discussion Group

Grants and Awards

- Widener University Provost Grant, "Binding and Activation of Carbon Dioxide at Binuclear Metal Sites" (\$2,000), 2015-2016

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- Widener University Provost Grant, “Effect of Ring Size on Properties and Reactions of Binuclear Transition Metal Complexes” (\$1,000), 2014-2015
- American Chemical Society, Corporation Associates Grant for local section programming benefiting industrial members (\$1,000 granted to the Delaware Section ACS, 2012)
- American Chemical Society, Innovative Program Grant, Local Section for ‘Meet the ACS’ programs for Delaware high school chemistry teachers (\$2,000 granted to the Delaware Section ACS, 2012)
- Sabbatical semester, Widener University, Fall 2012
- Widener University Provost Grant, “Freshman Summer Research Experience,” (\$1,000), 2013-2014
- Widener University Faculty Development Grant, “Freshman Summer Research,” (\$2,100), 2013-2014
- Widener University Provost Grant, “Substrate Binding and Activation at Binuclear Transition Metal Sites,” (\$1,000), 2012-2013
- Widener University Faculty Development Grant, “Characterization and Reactions of Binuclear Metal Systems and Mononuclear Model Systems,” (\$2,100), 2011-2012
- Widener University Faculty Development Grant, “Learning Assistants in the College of Arts & Sciences,” (\$1,755), with Drs. Annalisa Castaldo and Lori Simons, 2011-2012
- Widener University Provost Grant, “Reactions at Binuclear Transition Metal Sites,” (\$1,000), 2011-2012
- Arts & Sciences Nominee for Fitz Dixon Innovation in Teaching Award, May 2011
- American Chemical Society Petroleum Research Fund, November 2010, applied for a 3-year grant totaling \$65,000 for research, not granted
- Widener University Faculty Development Grant, “Learning Assistants in the College of Arts & Sciences,” (\$1,755), with Drs. Annalisa Castaldo and Lori Simons, 2010-2011
- Widener University Faculty Development Grant, “Freshman Summer Research Experience in Chemistry” (\$7,680), lead author, with chemistry faculty, 2010-2011
- Widener University Provost Grant, “Analysis of SO₂ in Wine,” with Dr. Shirley Fischer-Drowos (\$1,800), 2009-2010
- Widener University Faculty Development Grant, “Freshman Research Experience: Ligand Synthesis and Metal Complexes” (\$2,856), 2009-2010
- Widener University Provost Grant, “Analysis and Characterization of New Ligands and Their Metal Complexes” (\$1,880), 2008-9
- Widener University Faculty Development Grant, “Materials and Activities for Whiteboard Modeling in an Inquiry-Based Chemistry Classroom” (\$2,218), 2008-9
- Widener University Provost Grant, “Synthesis of Soluble Binuclear Transition Metal Complexes for Catalysis and Enzyme Modeling” – chemicals and supplies for research (\$2,000), 2007-8
- Widener University Faculty Development Grant, “Synthesis of Soluble Binuclear Transition Metal Complexes for Catalysis and Enzyme Modeling” – student salary (\$2,550), 2006-7
- Widener University Provost Grant, “Synthesis of Soluble Binucleating Macrocyclic Ligands and Their Metal Complexes (\$2,000), 2006-7
- Widener University Faculty Development Grant, “Revision of Chem 148 – General Chemistry II Lab”, (\$2,835), 2006-7
- Widener University Provost Grant, “Novel Methods for Analyte Determination in Wines,” with Dr. Shirley Fischer-Drowos (\$2,000), 2005-6

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- Widener University Faculty Development Grant, “Chemistry Lab Safety and Technique Video Development” (\$740) – student salary, 2005-6
- Widener University Faculty Development Grant, “Curriculum Development – Chem 145/147” with Dr. Scott Van Bramer, 2004-5 (pre-tenure-track)

Publications and Patents

Peer-Reviewed Publications (* indicates published while at Widener University)

1. *N. McHenry, A. Martin, A. Castaldo, and D. Ziegenfuss, *International Journal of Teaching and Learning in Higher Education* 2009, 22, 258-268, “Learning assistants program: faculty development for conceptual change.”
2. *S. E. Van Bramer and A. E. Martin, *ACS Symposium Series* 2008, 994, 200-212, (R. S. Moog and J. N. Spencer, Eds.), “Implementing POGIL in a multiple section laboratory course.”
3. A. E. Martin and S. J. Lippard, *J. Am. Chem. Soc.* 1984, 106, 2579-2583, “Thiocyanate cleaves the imidazolate-bridged dicopper(II) center in a binucleating macrocycle to form $[\text{Cu}_2(\text{SCN})_4\text{C}^{\text{A}'}]$. Model chemistry for superoxide dismutase.”
4. P. K. Coughlin, A. E. Martin, J. C. Dewan, E.-I. Watanabe, J. E. Bulkowski, J.-M. Lehn, and S. J. Lippard, *Inorg. Chem.* 1984, 23, 1004-1009, “Synthesis and structure of the imidazolate-bridged dicopper(II) ion in two binucleating macrocycles.”
5. A. E. Martin and S. J. Lippard, *Copper Coord. Chem.: Biochem. Inorg. Perspect.* 1983, 395-408, “Copper(II) chemistry in binucleating macrocycles.”
6. A. E. Martin and J. E. Bulkowski, *J. Am. Chem. Soc.* 1982, 104, 1434-1436, “Open-face” macrobicycles as tunable binucleating ligands. Design, synthesis, and dicopper(II) complexes.”
7. A. E. Martin and J. E. Bulkowski, *J. Org. Chem.* 1982, 47, 415-418, “General synthetic route to hexamine macrocycles.”
8. A. E. Martin, T. M. Ford, and J. E. Bulkowski, *J. Org. Chem.*, 1982, 47, 412-415, “Synthesis of selectively protected tri- and hexamine macrocycles.”
9. A. E. Martin and J. E. Bulkowski, *J. Organomet. Chem.*, 1981, 217(2), C29-C33, “Binuclear rhodium(I) complexes. Synthesis of $[\text{Rh}(\text{COD})]_2\text{L}(\text{OAc})_2$ where L is the new 22-membered macromonocycle 1,4,7,12,15,18-hexaazacyclodocosane.”
10. P. K. Coughlin, S. J. Lippard, A. E. Martin and J. E. Bulkowski, *J. Am. Chem. Soc.*, 1980, 102, 7616-7617, “Enhanced stability of the imidazolate-bridged dicopper(II) Ion in a binucleating macrocycle.”

Manuscripts in Preparation

1. “Synthesis and structure of two binuclear macrocyclic copper(II) halide complexes”, Andrea E. Martin, Louise M. Liable-Sands, *Erika Druckenmiller, Glenn P. A. Yap
2. “Comparison of copper(II) and nickel(II) binding in a macrocyclic binuclear ligand,” Andrea E. Martin, Louise M. Liable-Sands, and Glenn P. A. Yap
3. “Silver complexes of a macrocyclic binucleating ligand,” *Paul St. Marie, Andrea E. Martin, and Glenn P. A. Yap

US Patents (assigned to Hercules Incorporated, Wilmington, DE)

1. A. E. Martin, US Patent 5,120,806 (June 9, 1992), “Mixed activators for stabilized metathesis catalysts”
2. A. E. Martin and J. F. L. Newport, US Patent 5,079,318 (January 7, 1992), “Substituted acetylenes as rate moderators for ring-opening metathesis polymerization”
3. A. E. Martin, US Patent 5,075,272 (December 24, 1991), “Mixed activators for stabilized metathesis catalysts”

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4. A. E. Martin, US Patent 4,918,039 (April 17, 1990), "Binuclear metathesis polymerization catalyst system"
5. A. E. Martin, US Patent 4,696,985 (September 29, 1987), "Catalyst composition for polymerization of cycloolefins"

Abstracts published while at Widener University

1. S. E. Van Bramer and A. E. Martin, Abstracts, 43rd Middle Atlantic Regional Meeting of the American Chemical Society, Baltimore, MD, May 31-June 2 (2012), MARM-428, "So you want to revise your laboratory course. What next?"
2. L. M. Liable-Sands, A. E. Moretti, M. Bradley, and A. E. Martin, Abstracts of Papers, 243rd ACS National Meeting & Exposition, San Diego, CA, March 25-29 (2012), CHED-132, "Chemistry outreach at Widener University through the student affiliates chapter of the American Chemical Society chemistry club."
3. E. D. Druckenmiller, B. L. Offenbacher, A. E. Martin and L. M. Liable-Sands, Abstracts, 41st Middle Atlantic Regional Meeting of the American Chemical Society, Wilmington, DE, April 10-13 (2010), MARM-151, "Synthesis of a macrocyclic ligand and a new copper complex."
4. A. E. Martin, L. M. Liable-Sands, L. Bastin and S. Fischer-Drowos, Abstracts, 41st Middle Atlantic Regional Meeting of the American Chemical Society, Wilmington, DE, April 10-13 (2010), MARM-53, "Freshman summer research experience."
5. S. E. Van Bramer, A. E. Martin, L. M. Liable-Sands and I. Kul, Abstracts of Papers, 236th ACS National Meeting, Philadelphia, PA, August 17-21 (2008), CHED-331, "Revising a POGIL general chemistry laboratory to improve student outcomes."
6. A. E. Martin and S. E. Van Bramer, Abstracts of Papers, 236th ACS National Meeting, Atlanta, GA, March 26-30 (2006), CHED-153, "Experiences in transitioning from traditional to guided inquiry laboratories in freshman chemistry."

Meetings Attended (Presentations in bold, student presentations marked *)

- Delaware ACS Section Award Meeting, Wilmington, DE, Feb. 25, 2015
- **Biennial Conference on Chemical Education (BCCE), Grand Valley State University, "Assessment of Widener University's 'Science Initiative for the Retention of Freshmen'"(co-author Louise Liable-Sands), August 2014**
- Delaware ACS Section Award Meeting, Wilmington, DE, Feb. 26, 2013
- **Ursinus College Chemistry Seminar Series, invited lecture, Oct. 25, 2013**
- **Middle Atlantic Association of Liberal Arts Chemistry Teachers (MAALACT), Widener University, Oct. 11-12, 2013 (chaired/presented at 3 sessions)**
- **ACS National Meeting, Indianapolis, IN, Sept 8-9, 2013, poster, "Widener's SIRF Program" (co-author Louise Liable-Sands)**
- Academic Citizenship & Leadership Training, Widener University, May 20-21, 2013
- Bridge week, Dr. Jose Bowen, Widener University, May 13, 2013
- Delaware ACS Carothers Award, Wilmington, DE, April 24, 2013
- Delaware ACS Networking Event, Wilmington, DE, March 22, 2013
- Ulliyot Lecture, Chemical Heritage Foundation, Philadelphia, PA, November 15, 2012
- Delaware Section ACS Social Networking Event, October 2012 (organizer/presider)
- Delaware Section ACS Meeting, Education Awards Banquet, September 2012 (organizer/presider)
- ACS National Meeting, Philadelphia, PA, August 2012
- **Biennial Conference on Chemical Education (BCCE), Penn State University, facilitated workshop, "Revising Your Laboratory Curriculum," joint with Drs. Scott Van Bramer and Louise Liable-Sands, August 2012**

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- **Middle Atlantic Regional Meeting, ACS, Baltimore, MD, coauthor on presentation by Dr. Scott Van Bramer, “Revising Your Laboratory Curriculum,”, June 2012**
- Delaware Section ACS, 50- and 60-year member awards, May 2012 (organizer/presider)
- Delaware Section ACS, University/Industry Poster Session, April 2012
- Delaware Section ACS, Carothers Award Meeting, April 2012 (presider)
- Delaware Section ACS Meeting, Section Award, Dr. Andrew Teplyakov, March 2012 (organizer/presider)
- Delaware Section ACS Meeting, Dr. Thomas Epps, conducting polymers, February 2012 (organizer/presider)
- Delaware Section ACS Meeting, Delaware Sustainable Chemistry Alliance, January 2012 (organizer/presider)
- American Chemical Society Leadership Institute, Forth Worth, TX, January 2012, Local Section Leaders Workshops, Collaborating Across Boundaries, Engaging & Motivating Volunteers
- Delaware Section ACS Meeting, Section Award, November 2011
- Academic Leadership Workshop, Widener University, November 2011
- MAALACT, Hamilton College, Clinton, NY, October 2011
- Delaware Section ACS Meeting, Dr. Bassam Shakhshiri (President-Elect ACS), September 2011
- Academic Citizenship & Leadership Training, Widener University, August 2011
- University of Delaware Nobel Prize Symposium honoring Richard Heck, May 2011
- Academic Citizenship & Leadership Training, Widener University, May 2011
- Chemical Heritage Foundation, Priestly Society, May 2011
- ACS Delaware Section, 50- and 60-year member presentations, May 2011
- ACS Delaware Section, Carothers Award, May 2011
- Chemical Heritage Foundation, Priestly Society, March 2011
- AAC&U Conference, “Creativity, Inquiry, and Discovery: Undergraduate Research In and Across the Disciplines,” Durham, NC, November 2010
- MAALACT, Alvernia College, Reading, PA, November 2010
- **Biennial Conference on Chemical Education (BCCE), University of North Texas, Denton, TX, “Research Experience for College Freshmen” (poster, coauthored with Drs. Louise Liable-Sands and Loyd Bastin); Workshop Facilitator, “Introduction to POGIL,” August 2010**
- Women in Chemistry Career Pathways Conference, Chemical Heritage Foundation, Philadelphia, PA, April 2010 (accompanied students Erika Druckenmiller and Anna Miller)
- ***Middle Atlantic Regional Meeting, ACS, Wilmington, DE, “Summer Research Experience for College Freshmen,” (with Dr. Louise Liable-Sands), also Session Organizer and Presider, Chemical Education, April 2010; poster session presentation by students Erika Druckenmiller and Brittney Offenbacher (co-authored by Drs. Martin and Liable-Sands), “Synthesis of a Macrocyclic Ligand and a New Copper Complex”**
- MAALACT, Washington College, Chestertown, MD, November 2009
- Virginia S. Lee workshop “Towards a Comprehensive General Education Program and Its Assessment,” Widener University, August 2009
- **POGIL Advanced Workshop, University of Wisconsin, Platteville, WI, Workshop Facilitator: “Developing Guided Inquiry Laboratories: the POGIL Approach,” July/August 2009**

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- POGIL National Meeting, St. Francis University, St. Paul, MN, May/June 2009
- ACS National Meeting, Philadelphia, PA, August 2008, coauthor on presentation, S. E. Van Bramer, A. E. Martin, L.M. Liable-Sands, I. Kul, "Revising a POGIL General Chemistry Laboratory to Improve Student Outcomes."
- **Biennial Conference on Chemical Education (BCCE), Indiana U., Bloomington, IN, Presentations: "Using the ICE Model to Improve Course Objectives and Assessment Alignment in a General Chemistry Class" and "General Chemistry Class From the Student Perspective," July/August 2008**
- **POGIL Advanced Laboratory Workshop, Berry College, Mt. Berry, GA, Workshop Facilitator, July 2008**
- Math Science Partnership of Greater Philadelphia, Widener University, "Exploring the Brain: Implications for Teaching and Learning," June 2008
- **POGIL National Meeting, Univ. of Texas (Arlington), Poster: "Student Learning Assistants in a POGIL Classroom," May/June 2008**
- ***Lilly East conference, Univ. of Delaware, Panel Discussion: "Hearing Student Voices: Employing Student Learning Assistants to Improve Teaching" (co-presenters, students Kaitlyn Gerhart, Michelle Danner, Suzanne Hopper; Drs. Andrea Martin, Annalisa Castaldo, Nadine McHenry, Donna Ziegenfuss), April 2008**
- **2nd Annual MSPGP Mathematics and Science Education Research Conference, Bryn Mawr College, Bryn Mawr, PA Panel Discussion: "Students as Teachers and Learners" (co-panelist, Dr. Annalisa Castaldo) and Presentation: "POGIL in the Laboratory," October 27, 2007**
- **POGIL Advanced Laboratory Workshop, Simpson College, Indianola, IA, Workshop Facilitator, July 18-20, 2007**
- **POGIL Advanced Laboratory Workshop, Washington College, Chestertown, MD, Workshop Facilitator, June 11-14, 2007**
- MSPGP, "Engaging Millennial Learners in Math and Science Courses," Widener University, June 1, 2007
- Middle Atlantic Regional Meeting, ACS, Ursinus College, Collegeville, PA, Session Organizer and Presider, Chemical Education, May 2007
- Delaware Section ACS Joint University/Industry Poster Session, University of Delaware, Newark, DE, April 18, 2007
- **MSPGP, Ridley Park HS, Ridley Park, PA, "Presentation: "What is POGIL? How is POGIL used at Widener?," February 8, 2007**
- MSPGP, Villanova Univ., Villanova, PA, December 8, 2006
- **Biennial Conference on Chemical Education (BCCE), Purdue Univ., W. Lafayette, IN, Presentation "Development of Guided Inquiry Experiments for a One-Semester GOB Lab for Nursing Majors," Poster "Use of a Math Pretest as a Predictive Tool for Success in General, Organic, and Biochemistry for Nursing Majors," and Workshop Facilitator: POGIL Laboratory Workshop July/August 2006**
- **POGIL Advanced Laboratory Workshop, Washington College, Chestertown, MD, Workshop Facilitator, June 13-15, 2006**
- **POGIL National Meeting, College of Charleston, Charleston, SC, Invited Presentation, "Putting POGIL into Practice in the Laboratory," May 22-25, 2006**
- University of Delaware Symposium in honor of Nobel Prize Winner Robert Grubbs, May 12, 2006

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- **ACS National Meeting, Atlanta, GA, Invited Presentation “Experiences in Transitioning from Traditional to Guided Inquiry Laboratories in Freshman Chemistry” (co-author Scott Van Bramer), March 25-28, 2006**
- **MAALACT, Widener University, Session Chair and Presenter: “State of the Discipline: General Chemistry/Non-majors Chemistry” and “POGIL in the General Chemistry Laboratory,” October 2005**
- ACS National Meeting, Washington, DC, August 28-30, 2005
- POGIL Advanced Laboratory Workshop, Washington College, Chestertown, MD, June 21-23, 2005
- ACS Middle Atlantic Regional Meeting, Rutgers Univ., Piscataway, NJ, May 23-24, 2005
- MADCP (Middle Atlantic Discovery Chemistry Project) – George Washington Univ., Washington, DC, Summer, 2004
- BCCE (Biennial Conference on Chemical Education) – Iowa State Univ., Ames, IA, Summer, 2004
- PKAL (Project Kaleidoscope) – New York, NY, Fall, 2003

Additional Experience and Awards

- 2014-present – Chair, Education Committee, Delaware Section American Chemical Society
- 2014 – reviewer, POGIL organization (Process Oriented Guided Inquiry Learning)
- Dissertation Committee, Jennifer Eddy, Department of Chemistry & Biochemistry, University of Delaware, 2013-present
- 2013 – Past Chair, Delaware Section American Chemical Society
- 2012 – Chair, Delaware Section American Chemical Society
- 2009-2010 – Secretary, Delaware Section American Chemical Society (2 terms)
- 2008 – present, reviewer, *Journal of Chemical Education*
- 1993-1999 – Sanford School Board of Trustees
- 1997 – Sanford School Alumni Award, inaugural class