A. Recent Publications:


B. Recent Oral Presentations:

1. Student-Centered Learning in the Chemistry Laboratory: the POGIL Approach, 22nd Biennial Conference on Chemical Education (BCCE); Pennsylvania State University, State College, PA, July 31, 2012.

2. Active Learning in the Chemistry Laboratory: the POGIL Approach, 43rd Mid-Atlantic Regional Meeting of the ACS (MARM); UMBC, Baltimore, MD, June 2, 2012.

3. Student-Centered Learning in the Laboratory: The POGIL Approach, 43rd Western Regional Meeting of the American Chemical Society; Pasadena, CA, November 12, 2011.

4. Using POGIL to Improve the Academic Laboratory Experience, 242nd ACS National Meeting; Denver, CO, August 30, 2011.
5. POGIL in the Laboratory: POGIL Across the Curriculum and Around the World: 43rd IUPAC World Congress; San Juan, PR, August 2, 2011.


7. Student-Centered Learning in the Laboratory: POGIL and SWH, 44th MAALACT Meeting; Alvernia University, Reading PA, November 6, 2010.


9. Using POGIL and SWH to promote student understanding of organic reaction mechanisms, 21st Biennial Conference on Chemical Education (BCCE); University of North Texas, North Denton, TX, August 2010.

10. POGIL in the Laboratory, 41st Mid-Atlantic Regional Meeting of the ACS (MARM); Wilmington, DE, April 10, 2010.


12. POGIL (Process-Oriented Guided Inquiry Learning) in the Classroom, 43rd MAALACT Meeting; Washington College; November 13, 2009.

13. POGIL and the POGIL Project: from the classroom to the laboratory, 65th Southwest Regional Meeting of the ACS (SWRM); El Paso, TX, November 6, 2009.

14. Process-Oriented Guided Inquiry Learning in the Laboratory, 61st Southeast Regional Meeting (SERMACS); San Juan, PR; October 21, 2009.

15. POGIL labs are different, 238th ACS National Meeting; Washington, DC; August 18, 2009.


17. An Introduction to Process-Oriented Guided Inquiry Learning, 2009 MADCP (Middle Atlantic Discovery Chemistry Project) Meeting; George Washington University, Washington, DC; June 7, 2009.

18. Putting POGIL Into The Laboratory; 237th National Meeting of the American Chemical Society; Salt Lake City, UT; March 26, 2009.
19. The POGIL Laboratory; 236th *National Meeting of the American Chemical Society*; Philadelphia, PA; August 19, 2008.


21. POGIL and the POGIL Project; 37th *Northeast Regional Meeting of the American Chemical Society*; Burlington, VT; June 29, 2008.

22. Developing Guided Inquiry Laboratories—The POGIL Approach; *MADCP (Middle Atlantic Discovery Chemistry Project) Annual Meeting*; Moravian College, Bethlehem, PA; June 9, 2008.

23. Teaching Stereochemistry in the Undergraduate Organic Chemistry Class; 235th *National Meeting of the American Chemical Society*; New Orleans, LA; April 9, 2008.

24. Using POGIL in the Laboratory; 235th *National Meeting of the American Chemical Society*; New Orleans, LA; April 7, 2008.


26. POGIL in the Laboratory; 234th *National Meeting of the American Chemical Society*; Boston, MA; August 23, 2007.

27. The Guided Inquiry Laboratory; 2007 *MADCP (Middle Atlantic Discovery Chemistry Project) Meeting*; Washington College; June 1, 2007.

28. POGIL in the Laboratory; 233rd *National Meeting of the American Chemical Society*; Chicago, IL; March 25, 2007.


31. POGIL (Process-Oriented Guided-Inquiry Learning) and the POGIL Laboratory; 19th *Biennial Conference In Chemical Education (BCCE)*; Purdue University, July 31, 2006.

32. Using Student-Generated Data to Teach Organic Chemistry; 2006 *MADCP (Middle Atlantic Discovery Chemistry Project) Meeting*; Franklin & Marshall College; June 9, 2006.
33. Process-Oriented Guided Inquiry in the Organic Classroom and Laboratory; Chemistry Department Colloquium, Iowa State University; April 7, 2006.

34. The POGIL Laboratory Experience; 231st National Meeting of the American Chemical Society; Atlanta, GA; March 27, 2006.


36. Process-Oriented Guided-Inquiry Learning in the Laboratory, 230th National Meeting of the American Chemical Society; Washington, DC; September 1, 2005.

37. The POGIL (Process-Oriented Guided-Inquiry Learning) Laboratory; in POGIL Symposium; Middle Atlantic Regional Meeting (MARM) of the American Chemical Society; Rutgers University, Piscataway, NJ; May 25, 2005.

38. POGIL and a Learning-Centered Approach to the Laboratory: in Learning Centered Approaches across the Curriculum Symposium; 229th National Meeting of the American Chemical Society; San Diego, CA; March 13, 2005.

39. Jim Spencer, POGIL, and Chemical Education; in Pimentel Award Symposium; 229th National Meeting of the American Chemical Society; San Diego, CA; March 14, 2005.

C. Recent Poster Presentations:

1. Using Student Laboratory Data to Discover Substitution and Elimination Mechanisms; POGIL Northeast Regional Meeting; Muhlenberg College, Bethlehem, PA; July 7, 2011.

2. POGIL in the Laboratory: Using Student Laboratory Data to Discover Substitution and Elimination Mechanisms; 7th POGIL National Meeting; University of Texas, Arlington; June 1, 2008.

3. Using Student Laboratory Data to Discover Substitution and Elimination Mechanisms; 233rd National Meeting of the American Chemical Society; Chicago, IL; March 25, 2007.

4. Student-Centered Learning and the POGIL (Process-Oriented Guided-Inquiry Learning) Laboratory; Gordon Research Conference on Chemistry Education Research & Practice; Connecticut College; June 28, 2005.

5. Baeyer-Villiger Oxidation of Substituted Indanones (with A.M. Jacobine); 229th National Meeting of the American Chemical Society; San Diego, CA; March 13, 2005.
D. Recent Workshops:

1. POGIL Project Workshop: Student-Centered Learning in the Laboratory: The POGIL and SWH Approaches, 22\textsuperscript{nd} Biennial Conference on Chemical Education (BCCE); Pennsylvania State University, State College, PA; July 31, 2012.

2. Student-Centered Learning in the Laboratory: The POGIL and SWH Approaches, 43\textsuperscript{rd} IUPAC World Congress; San Juan, PR; August 4, 2011.

3. Half-day POGIL-SWH Laboratory Workshop, 21\textsuperscript{st} Biennial Conference on Chemical Education (BCCE); University of North Texas, North Denton, TX; August 2010.

4. Inquiry-Based Laboratories: POGIL and SWH (with Steve Gravelle of St. Vincent College), 43\textsuperscript{rd} MAALACT Meeting; Washington College; November 14, 2009.

5. Three-Day POGIL Laboratory Workshop, Linfield College; McMinnville, OR; June 29-July 1, 2009.

6. Facilitating a POGIL Laboratory Workshop; 7\textsuperscript{th} POGIL National Meeting; University of St. Thomas; St. Paul, MN; May 31, 2009.

7. One Day Introductory POGIL Workshop; University of Rio Grande; Rio Grande, OH; March 13, 2009.

8. One-Day SuperLab Workshop; Linfield College; McMinnville, OR; January 10, 2009.

9. One Day Introductory POGIL Workshop; Morningside College; Sioux City, IA; November 15, 2008.

10. Half-day POGIL Laboratory Workshop, 20\textsuperscript{th} BCCE; Indiana University, Bloomington, IN; July 29, 2008.

11. Special Workshop on Laboratory; Berry College, Mt. Berry, GA; July 15-17, 2008.

12. POGIL Laboratory Workshops; 6\textsuperscript{th} POGIL National Meeting; University of Texas, Arlington; June 1-2, 2008.


14. One Day Introductory POGIL Workshop; Advanced Workshop on POGIL and SWH (Science Writing Heuristic); Simpson College, Indianola, IA; July 18-20, 2007.
15. Special Workshop on Laboratory; Washington College, Chestertown, MD; June 12-14, 2007.


17. Half-day POGIL Laboratory Workshop, 19th BCCE; Purdue University; August 3, 2006.

18. Three-day POGIL Laboratory Workshop, Washington College; Chestertown, MD; June 13-15, 2006.


20. Three-day POGIL Laboratory Workshop; Washington College, Chestertown, MD; June 21-23, 2005.

21. Half-day POGIL Laboratory Workshop; MADCP (Middle Atlantic Discovery Chemistry Project) Annual Meeting; Moravian College, Bethlehem, PA; June 6, 2005.
