

Peter M. Graham

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Education

2005: Ph.D. Chemistry, *University of Virginia, Charlottesville, VA*

Thesis title: "Synthesis and Reactivity of Tungsten Dearomatization Agents"

2000: B.S. Chemistry, *College of William and Mary, Williamsburg, VA*

Experience

2014-present: Associate Professor, Saint Joseph's University, Department of Chemistry

2008-2014: Assistant Professor, Saint Joseph's University, Department of Chemistry

2005-2008: Postdoctoral Fellow, University of British Columbia with Professor Peter Legzdins

2000-2005: Graduate Student, University of Virginia with Professor W. Dean Harman and Professor William H. Myers (University of Richmond)

1999-2000: Undergraduate Research, College of William and Mary with Professor Robert D. Pike

Teaching Experience

Course Number	Title	Term Taught
CHM 120	General Chemistry I	F'08 - F'16
CHM 125	General Chemistry II	Sp'09 - Sp'16
CHM 120L	General Chemistry I Laboratory	F'08, F'09, F'10
CHM 125L	General Chemistry II Laboratory	Sp'09, Sp'10, Sp'12 - Sp'16
CHM 350	Inorganic Chemistry	F'08 - F'16
CHM 350L	Inorganic Chemistry Laboratory	Sp'09 - Sp'11, F'11- F'16
CHM 440	Organometallic Chemistry	Sp'14, Sp'16

Affiliations and Awards

2014: Faculty Merit Award for Teaching, Saint Joseph's University

2010-present: Sigma Xi Scientific Research Society

2003-present: American Chemical Society

Funded Grant Proposals

2014-2017: ACS-PRF Undergraduate Research Grant

“Synthesis and Reactivity of Molybdenum and Tungsten Carbon Dioxide Complexes”

Undergraduate Research Students

Valerie A. Stephens '10	Sum'09; F'09; Sp'10	CRC Industries
Selime Aydin '11	Sum'09; Sp'10; F'10; Sp'11	Siegfried, Inc.
Ian G. McKendry '12	Sum'10-11; Sp'11; F'11; Sp'12	Temple, Chemistry PhD
Jason A. Manjerovic '12	Sum'11; F'11; Sp'12	Duquesne, Pharm D 2016
Robert G. Carden '14	Sum'11-'13; Sp'13; F'13; Sp'14	Duke, Chemistry PhD
James J. Ohane '14	Sum'12-'13; Sp'13; F'13; Sp'14	DuPont
Michael A. Pogash '15	Sum'13-'14; Sp'14; F'14; Sp'15	Georgia, Chemistry PhD
Gregory R. Lorzing '16	Sum'14-'15; F'14; Sp'15	Delaware, Chemistry PhD
Joseph R. Vasta '16	Sum'14-'15; F'15; Sp'16	
Xuyao Duan '17	Sum'14-'15; F'15; Sp'16; F'16; Sp'17	
Madeline E. Graziani '17	Sum'15-'16; Sp'16; F'16; Sp'17	
Leslie J. Briggs '17	Sum'16; F'16	

Selected Publications († SJU undergraduate co-authors)

Carden, R. G.†; Ohane, J. J.†; Pike, R. D.; **Graham, P.M.** “Synthesis of Tungsten and Molybdenum Carbon Dioxide Complexes” *Organometallics* **2013**, *32*, 2505-2508.

Graham, P.M.; Buschhaus, M.S.A.; Baillie, R.A.; Semproni, S.P.; Legzdins, P. “Hydroperoxide-Initiated Intramolecular Insertions of NO into Metal–Carbon Bonds” *Organometallics* **2010**, *29*, 5068–5072.

Graham, P.M.; Buschhaus, M.S.A.; Pamplin, C.B.; Legzdins, P. “Reactivity of Cp*Mo(NO)(=CHCMe₃) with Olefins and Dienes: C-H Activation Reactions of Molybdenacyclobutanes” *Organometallics* **2008**, *27*, 2840-2851.

Graham, P.M.; Buschhaus, M.S.A.; Legzdins, P. “Intramolecular C-H Activation Reactions of Molybdenacyclobutanes” *J. Am. Chem. Soc.* **2006**, *128*, 9038-9039.

Graham, P.M.; Delafuente, D.A.; Liu, W.; Myers, W.H.; Sabat, M.; Harman, W. D. “Diels-Alder Reaction of Pyridine Activated by a π -Basic Tungsten Fragment” *J. Am. Chem. Soc.* **2005**, *127*, 10568-72.

Graham, P.M.; Mocella, C.J.; Sabat, M.; Harman, W.D. “Dihapto-Coordinated Amide, Ester, and Aldehyde Complexes and their Role in Decarbonylation” *Organometallics* **2005**, *24*, 911-919.

Graham, P.M.; Meiere, S.H.; Sabat, M.; Harman, W.D. “Dearomatization of Benzene, Deamidization of *N,N*-Dimethylformamide, and a Versatile New Tungsten π -Base” *Organometallics* **2003**, *22*, 4364.

Graham, P.M.; Pike, R.D.; Sabat, M.; Bailey, R.D.; Pennington, W.T. “Coordination Polymers of Copper(I) Halides” *Inorg. Chem.* **2000**, *39*, 5121.

Selected Presentations (presenter in bold) ([†]SJU undergraduate co-authors)

Graham P. M.; “Synthesis and Reactivity of Molybdenum Carbon Dioxide Complexes” 4th Philadelphia Inorganic Colloquium, Villanova, PA, November 5, 2016.

Graziani, M. E.[†]; Briggs, L. J.[†]; Lorzing, G. R.[†]; Vasta, J. R.[†]; Duan, X.[†]; Pogash, M. A.[†]; Graham P. M.; “Synthesis and Reactivity of Molybdenum Carbon Dioxide Complexes” 252th ACS National Meeting, Philadelphia, PA, August 21-25, 2016.

Graham P. M.; “Synthesis and Reactivity of Tungsten and Molybdenum Carbon Dioxide Complexes.” William H. Myers Retirement Research Symposium, Richmond, VA, April 8, 2015.

Lorzing, G. R.[†]; Vasta, J. R.[†]; Duan, X.[†]; Graziani, M. E.[†]; Pogash, M. A.[†]; Carden, R. G.[†]; Ohane, J. J.[†]; Graham P. M.; “Synthesis of Molybdenum Carbon Dioxide Complexes via Oxidation of a Carbonyl Ligand” 251th ACS National Meeting, San Diego, CA, March 11-16, 2016.

Lorzing, G. R.[†]; Vasta, J. R.[†]; Duan, X.[†]; Graziani, M. E.[†]; Pogash, M. A.[†]; Carden, R. G.[†]; Ohane, J. J.[†]; Graham P. M.; “Synthesis of Molybdenum Carbon Dioxide Complexes via Oxidation of a Carbonyl Ligand” 2nd Philadelphia Inorganic Colloquium, Trenton, NJ, September 12, 2015.

Pogash, M. A.[†]; Lorzing, G. R.[†]; Vasta, J. R.[†]; Duan, X.[†]; Graziani, M. E.[†]; Carden, R. G.[†]; Ohane, J. J.[†]; **Graham P. M.**; “Synthesis of Molybdenum Carbon Dioxide Complexes via Oxidation of a Carbonyl Ligand” *Organometallics*, Gordon Research Conference, Newport, RI, July 12-15, 2015.

Pogash, M. A.[†], **Duan, X.**[†], **Lorzing, G. R.**[†], **Vasta, J. R.**[†]; **Carden, R. G.**[†]; **Ohane, J. J.**[†]; **Graham P. M.**; “Synthesis of Molybdenum Carbon Dioxide Complexes via Oxidation of a Carbonyl Ligand” 1st Philadelphia Inorganic Colloquium, Philadelphia, PA, February 7, 2015.

Pogash, M. A.[†], **Duan, X.**[†], **Lorzing, G. R.**[†], **Vasta, J. R.**[†]; **Carden, R. G.**[†]; **Ohane, J. J.**[†]; **Graham P. M.**; “Synthesis of Molybdenum Carbon Dioxide Complexes via Oxidation of a Carbonyl Ligand” 5th Mid-Atlantic Seaboard Inorganic Symposium, Philadelphia, PA, July 30, 2014.

Carden, R. G.[†]; **Ohane, J. J.**[†]; **Pogash, M. A.**[†]; **Graham P. M.**; “Synthesis and Reactivity of Tungsten and Molybdenum Carbon Dioxide Complexes.” 97th Canadian Chemistry Conference and Exhibition, Emerging Advances in the Activation of Small Molecules by Metal Complexes (In Honour of Peter Legzdins), Vancouver, BC, June 1-4, 2014.

Carden, R. G.[†]; **Ohane, J. J.**[†]; **Pogash, M. A.**[†]; **Graham P. M.**; “Synthesis and Reactivity of Tungsten and Molybdenum Carbon Dioxide Complexes.” 247th ACS National Meeting, Dallas, TX, March 16-20, 2014.

Carden, R. G.[†]; **Ohane, J. J.**[†]; **Pogash, M. A.**[†]; **Pike, R. D.**; **Graham P. M.**; “Synthesis and Characterization of Tungsten and Molybdenum Carbon Dioxide Complexes.” Organometallics, Gordon Research Conference, Newport, RI, July 7-12, 2013.

Carden, R. G.[†]; **Ohane, J. J.**[†]; **Pike, R. D.**; **Graham P. M.**; “Synthesis and Characterization of Tungsten and Molybdenum Carbon Dioxide Complexes.” Professional Development Seminar, Villanova University, Philadelphia, PA, February 5, 2013.

Carden, R. G.[†]; **Ohane, J. J.**[†]; **Pike, R. D.**; **Graham P. M.**; “Synthesis and Characterization of Tungsten and Molybdenum Carbon Dioxide Complexes.” 244th ACS National Meeting, Philadelphia, PA, August 19-23, 2012.

Carden, R. G.[†]; **Ohane, J. J.**[†]; **Manjerovic, J. A.**[†]; **McKendry, I. G.**[†]; **Graham P. M.**; “Synthesis and Characterization of Tungsten and Molybdenum Carbon Dioxide Complexes.” Organometallics, Gordon Research Conference, Newport, RI, July 8-13, 2012.

McKendry, I. G.[†]; **Aydin S.**[†]; **Stephens, V. A.**[†]; **Graham P. M.**; “Synthesis of Tungsten and Molybdenum Complexes for the Activation of Carbon Dioxide.” Inorganic Reaction Mechanisms, Gordon Research Conference, Galveston, TX, March 6-11, 2011.