

Short CV for Lectures

a. Personal Data:

1. **Name:** Graham K. Murphy

2. **Birthdate:** Dec. 14, 1976

3. **Department:** Chemistry

4. **Degrees:**

Ph.D. (Organic Chemistry): Department of Chemistry, University of Alberta. Completed Oct. 2006.

B.Sc. (Chemistry Major, Co-Op Program): University of Victoria. Completed Dec. 2001

5. **Professional Awards & Honours:**

7. Province of Ontario Early Researcher Award for 2016

6. Tetrahedron: Top 10 Reviewer Award (2015, 2014, 2013 and 2012)

5. CNC-IUPAC Travel Award 2016 (For attending ICOS21, Bombay, India, Dec. 2016)

4. UWaterloo *Chem Club Periodic Table of Teaching Excellence Award* for 2014

2. Thieme Chemistry Journal Award, 2014

2. NSERC Post-Doctoral Fellowship, 2008–2010

1. JSPS Post-Doctoral Fellowship, 2006–2007

6. **Employment:**

5. Associate Professor, University of Waterloo, July 2017-present

4. Assistant Professor, University of Waterloo. Nov. 2011–June 2017

3. Post-Doctoral Fellow: Biorefining Conversions Network, University of Alberta. Completed Oct. 2011.

2. NSERC Post-Doctoral Fellow: Colorado State University (Colorado, USA). Completed Aug. 2010.

1. JSPS Post-Doctoral Fellow: Tohoku University (Sendai, Japan). Completed Nov. 2007

b. Publication Data:

Recent Publications:

31. Zhensheng Zhao and Graham K. Murphy, "Oxidative, Iodoarene-Catalyzed Intramolecular Alkene Arylation for the Synthesis of Polycyclic Aromatic Hydrocarbons," *ACS Catalysis*, **2018**, Manuscript ID cs-2018-01582e.

30. Jasmin Eljo and Graham K. Murphy,* "Direct, Oxidative halogenation of Diaryl- and Dialkylphosphine oxides," *Tetrahedron Lett*, **2018**, Manuscript ID: TETL-D-18-00899. (revisions submitted)

29. Zhensheng Zhao and Graham K. Murphy,* "Chlorination of Phenylallene Derivatives with 1-Chloro-1,2-benziodoxol-3-one: Synthesis of *vicinal*-Dichlorides and Chlorodienes" *Beilstein J. Org. Chem.*, **2018**, *14*, 796. (*Invited submission to the Thematic Series on Hypervalent Iodine Chemistry in Organic Synthesis*)

28. Graham K. Murphy,* Léanne Racicot and Myriam S. Carle, "The Chemistry Between Hypervalent Iodine(III) Reagents and Organophosphorus Compounds", *Asian J. Org. Chem.* **2018**, accepted. DOI: 10.1002/ajoc.201800058.

27. Zhensheng Zhao, Léanne Racicot and Graham K. Murphy,* "Fluorinative Rearrangements of Substituted Phenylallenes Mediated by (Difluoroiodo)toluene: Synthesis of α -(Difluoromethyl)styrenes", *Angew. Chem., Int. Ed.*, **2017**, *56*, 11620.

26. Benjamin A. Laevens, Jason Tao and Graham K. Murphy,* "Iodide-Mediated Synthesis of Spirooxindole Dihydrofurans from Iodonium Ylides and 3-Alkylidene-2-oxindoles" *J. Org. Chem.*, **2017**, *82*, 11903. (*Invited submission to special issue on Hypervalent Iodine Chemistry*)

25. Jason Tao, Carl D. Estrada and Graham K. Murphy*, "Metal-Free Intermolecular Cyclopropanation Between Alkenes and Iodonium Ylides Mediated By $\text{PhI}(\text{OAc})_2 \cdot \text{Bu}_4\text{NI}$ " *Chem. Commun.* **2017**, *53*, 9004.

Book Chapters:

2. Graham K. Murphy* and Tanja Gulder,* (2018) "Hypervalent iodine fluorination for preparing alkyl fluorides (stoichiometrically and catalytically)" in *Synthetic Organofluorine Chemistry: Fluorination*, Springer:Nature
1. Graham K. Murphy* and F. G. West*, (2015) "Oxonium Ylide Rearrangements in Synthesis" in *Molecular Rearrangements in Organic Synthesis, 1st Edition*, John Wiley & Sons, Inc.

c. Conferences and Seminars:

Selected Invited Talks:

24. Institut des Sciences Moléculaires, University of Bordeaux, Bordeaux, France, August, 2018.
23. College of Pharmaceutical Science and Technology, Tianjin University, Tianjin, China, June 2018.
22. The 2nd Symposium of Metal-Carbene Consortium (Beijing Symposium 2018 on Metal-Carbene Chemistry, SMCC), Beijing, China, June 2018.
21. Early career investigator symposium, 101st CSC Conference and Exhibition, May 2018.
20. Fluorination Symposium, 100th CSC Conference and Exhibition, May 2017.

Selected Additional Presentations:

4. Léanne Racicot and Graham K. Murphy, Poster presentation at the 22nd International Symposium on Fluorine Chemistry, Oxford, UK, July 2018.
3. Zhensheng Zhao, Léanne Racicot, Liam H. Britt and Graham K. Murphy, Presentation at the 6th International Symposium on Hypervalent Iodine Chemistry, Cardiff, Wales, July 2018.
2. Graham K. Murphy, Poster presentation at the 21st International Conference on Organic Synthesis, Mumbai, India, December 2016.
1. Graham K. Murphy, Oral presentation at the 5th International Conference on Hypervalent Iodine Chemistry, Les Diablerets, Switzerland, July 2016.

d. Teaching Record:

Record of Courses Taught

Term	Course Number	Title	Grad/Undergrad	Load
Winter 2012	Chem 460	Natural Products Synthesis	Undergrad	100%
Fall 2012	Chem 464	Spectroscopy in Organic Chemistry	Undergrad	100%
Winter 2013	Chem 460	Natural Products Synthesis	Undergrad	100%
Fall 2013	Chem 464	Spectroscopy in Organic Chemistry	Undergrad	100%
Fall 2013	Chem 460	Natural Products Synthesis	Undergrad	100%
Winter 2014	Chem 265	Organic Chemistry II	Undergrad	100%
Fall 2014	Chem 464	Spectroscopy in Organic Chemistry	Undergrad	100%
Fall 2014	Chem 766	Organic Spectroscopy	Grad	100%
Fall 2015	Chem 464	Spectroscopy in Organic Chemistry	Undergrad	100%
Winter 2016	Chem 266	Organic Chemistry I (BJTU, China)	Undergrad	100%
Winter 2016	Chem 464	Spectroscopy in Organic Chemistry (as a Visiting Professor at Peking University, China)	Undergrad	100%
Fall 2016	Chem 460	Natural Products Synthesis	Undergrad	100%
Fall 2016	Chem 464	Spectroscopy in Organic Chemistry	Undergrad	100%
Fall 2017	Chem 464	Spectroscopy in Organic	Undergrad	100%

		Chemistry		
Winter 2018	Chem 265	Organic Chemistry II	Undergrad	100%
Spring 2018	Chem 267	Organic Chemistry II (BJTU, China)	Undergrad	100%
Spring 2018	Chem 464	Spectroscopy in Organic Chemistry (as a Visiting Professor at Peking University, China)	Undergrad	100%
<i>Fall 2018</i>	<i>Chem 464</i>	<i>Spectroscopy in Organic Chemistry</i>	<i>Undergrad</i>	<i>100%</i>
<i>Fall 2018</i>	<i>Chem 400</i>	<i>Natural Products Synthesis</i>	<i>Undergrad</i>	<i>100%</i>

Summary of Teaching Evaluations

Student Evaluations				
Course	Term	Overall Score (/5)	Enrolment	Response Rate
Chem 460	Winter 2012	4.5	7	86%
Chem 464	Fall 2012	4.6	23	88%
Chem 460	Winter 2013	4.65	11	82% (9/11)
Chem 464	Fall 2013	4.90	23	91% (21/23)
Chem 460	Fall 2013	5.00	6	83% (5/6)
Chem 265	Winter 2014	4.84	48	60% (29/48)
Chem 464	Fall 2014	4.92	29	76% (22/29)
Chem 766	Fall 2014	–	16	75% (12/16)
Chem 464	Fall 2015	4.82	39	69% (27/39)
Chem 266 (BJTU)	Winter 2016	4.24	58	50% (29/58)
Chem 464	Fall 2016	4.69	27	88% (23/26)
Chem 460	Fall 2016	4.83	18	66% (12/18)
Chem 464	Fall 2017	4.90	53	60% (32/53)
Chem 265	Winter 2018	4.70	51	51% (26/51)