

# C. Scott Hartley

## Curriculum Vitae

### Contact Info

Miami University, Department of Chemistry & Biochemistry  
651 E. High St., Oxford, Ohio 45056, USA  
phone: (513) 529-1731  
fax: (513) 529-5715  
[scott.hartley@miamioh.edu](mailto:scott.hartley@miamioh.edu)  
[www.hartleygroup.org](http://www.hartleygroup.org)

### Education

- 2005 Ph.D., Chemistry (with [Robert P. Lemieux](#))  
[Queen's University](#), Kingston, Ontario, Canada
- 2000 B.Sc.H., Chemistry, Class I  
[Queen's University](#), Kingston, Ontario, Canada

### Employment

- 2018–2021 *Volwiler Distinguished Research Professor*  
[Department of Chemistry & Biochemistry](#)  
[Miami University](#), Oxford, Ohio, U.S.A.
- 2016– *Professor*  
[Department of Chemistry & Biochemistry](#)  
[Miami University](#), Oxford, Ohio, U.S.A.
- 2013–2016 *Associate Professor*  
[Department of Chemistry & Biochemistry](#)  
[Miami University](#), Oxford, Ohio, U.S.A.
- 2007–2013 *Assistant Professor*  
[Department of Chemistry & Biochemistry](#)  
[Miami University](#), Oxford, Ohio, U.S.A.
- 2005–2007 *Post-Doctoral Research Associate*  
[Department of Chemistry](#) (with [Jeffrey S. Moore](#))  
[University of Illinois at Urbana–Champaign](#), Urbana, Illinois, U.S.A.
- 2000–2005 *Graduate Research Assistant*  
[Department of Chemistry](#)  
[Queen's University](#), Kingston, Ontario, Canada
- 2000–2005 *Teaching Assistant*  
[Department of Chemistry](#)  
[Queen's University](#), Kingston, Ontario, Canada
- 1998 *Student Research Assistant*  
Radiation Protection Bureau  
[Health Canada](#), Ottawa, Ontario, Canada

1997–1999 *Undergraduate Teaching Assistant*  
Department of Mathematics and Statistics  
[Queen's University](#), Kingston, Ontario, Canada

## Recognition and Awards

### Independent Career

2018–2021 Miami University Volwiler Distinguished Research Professor in Chemistry  
2014 [Early excellence profile](#) in the *Journal of Physical Organic Chemistry*  
2013 Miami University Distinguished Scholar Award (Early Career)  
2010–2013 [Air Force Office of Scientific Research](#), Young Investigator

### Graduate Studies

2002–2004 Natural Sciences and Engineering Research Council of Canada, Postgraduate Scholarship B  
2000–2002 Natural Sciences and Engineering Research Council of Canada, Postgraduate Scholarship A  
2000 Queen's Graduate Award

### Undergraduate Studies

1997–2000 Dean's List (Top 3% among science students at [Queen's University](#))  
2000 Hypercube Scholar, [Queen's University](#)  
1999, 2000 Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Award  
1999 Walter MacFarlane Smith Scholarship  
1999 Major James H. Rattray Memorial Scholarship in Science  
1998 Solomon Lieff Prize in Physical Chemistry  
1997 Richard M. Dale Scholarship  
1997 William Coombs Baker Memorial Prize  
1997 Annie Bentley Lillie Prize in First Year Calculus  
1996–1997 [Queen's Honour Matriculation Scholarship](#)

## Publications

Kinney, Z. J.; Kirinda, V. C.; Hartley, C. S.\* [Macrocycles of higher \*ortho\*-phenylenes: assembly and folding](#). *Chem. Sci.*, in press.

2019 Schafer, A. G. L.; Yezierski, E. J.; Hartley, C. S.\* [Understanding thermodynamic control in covalent self-assembly: a mixed synthetic–computational experiment for the undergraduate organic-chemistry laboratory](#). *J. Chem. Educ.* **2019**, *96*, 1230–1235.

2019 Zhang, B.; Jayalath, I. M.; Ke, J.; Sparks, J. L.; Hartley, C. S.\*; Konkolewicz, D.\* [Chemically fueled covalent crosslinking of polymer materials](#). *Chem. Commun.* **2019**, *55*, 2086–2089.

2018 Vemuri, G. N.; Pandian, R. R.; Spinello, B. J.; Stopler, Erika B.; Kinney, Z. J.; Hartley, C. S.\* [Twist sense control in terminally functionalized \*ortho\*-phenylenes](#). *Chem. Sci.* **2018**, *9*, 8260–8270.

2018 Kinney, Z. J.; Hartley, C. S.\* [Linker-directed assembly of twisted \*ortho\*-phenylene-based macrocycles](#). *Org. Lett.* **2018**, *20*, 3327–3331.

2017 Kariyawasam, L. S.; Hartley, C. S.\* [Dissipative assembly of aqueous carboxylic acid anhydrides fueled by carbodiimides](#). *J. Am. Chem. Soc.* **2017**, *139*, 11949–11955.

2017 Kinney, Z. J.; Hartley, C. S.\* [Twisted macrocycles with folded \*ortho\*-phenylene subunits](#). *J. Am. Chem. Soc.* **2017**, *139*, 4821–4827.

2017 Vemuri, G. N.; Chu, M.; Dong, H.; Spinello, B. J.; Hartley, C. S.\* [Solvent effects on the folding of \*o\*-phenylene oligomers](#). *Org. Biomol. Chem.* **2017**, *15*, 845–851.

- 2016 Ren, F.; Day, K. J.; Hartley, C. S.\* [Two- and three-tiered stacked architectures by covalent assembly](#). *Angew. Chem., Int. Ed.* **2016**, *55*, 8620–8623.  
*Selected by the editors as a “Hot Paper”.*
- 2016 Hartley, C. S.\* [Folding of \*ortho\*-phenylenes](#). *Acc. Chem. Res.* **2016**, *49*, 646–654.
- 2016 Repasky, P. J.; Agra-Kooijman, D. M.; Kumar, S. S.\*; Hartley, C. S.\* [Smectic-A and hexatic-B liquid crystal phases of sanidic alkyl-substituted dibenzo\[\*fg,op\*\]naphthacenes](#). *J. Phys. Chem. B* **2016**, *120*, 2829–2837.
- 2016 Popova, M.; Bretz, S. L.; Hartley, C. S.\* [Visualizing molecular chirality in the organic chemistry laboratory using cholesteric liquid crystals](#). *J. Chem. Educ.* **2016**, *93*, 1096–1099.  
*Featured on the cover.*
- 2015 He, J.; Mathew, S.; Kinney, Z. J.; Warrell, R. M.; Molina, J. S.; Hartley, C. S.\* [Tetrabenzanthrenes by mitigation of rearrangements in the planarization of \*ortho\*-phenylene hexamers](#). *Chem. Commun.* **2015**, *51*, 7245–7248.
- 2014 Mathew, S.; Crandall, L. A.; Ziegler, C. J.; Hartley, C. S.\* [Enhanced helical folding of \*ortho\*-phenylenes through the control of aromatic stacking interactions](#). *J. Am. Chem. Soc.* **2014**, *136*, 16666–16675.  
*Chosen by the editors as a JACS Spotlight.*
- 2014 Chu, M.; Scioneaux, A. N.; Hartley, C. S.\* [Solution-phase dimerization of an oblong shape-persistent macrocycle](#). *J. Org. Chem.* **2014**, *79*, 9009–9017.
- 2014 Dickson-Karn, N. M. S.\*; Olson, C. M.; Leu, W. C. W.; Hartley, C. S. [Intramolecular charge transfer in donor-bridge-acceptor compounds with paired linearly conjugated or cross-conjugated pathways](#). *J. Phys. Org. Chem.* **2014**, *27*, 661–669.
- 2014 Hartley, C. S.\* [Graphene synthesis: nanoribbons from the bottom-up \(News & Views\)](#). *Nat. Chem.* **2014**, *6*, 91–92.
- 2013 He, J.; Agra-Kooijman, D. M.; Singh, G.; Wang, C.; Dugger, C.; Zeng, J.; Zang, L.; Kumar, S.; Hartley, C. S.\* [Board-like dibenzo\[\*fg,op\*\]naphthacenes: synthesis, characterization, self-assembly, and liquid crystallinity](#). *J. Mater. Chem. C* **2013**, *1*, 5833–5836.
- 2013 Leu, W. C. W.; Hartley, C. S.\* [A push-pull macrocycle with both linearly conjugated and cross-conjugated bridges](#). *Org. Lett.* **2013**, *15*, 3762–3765.
- 2013 Mathew, S. M.; Engle, J. T.; Ziegler, C. J.; Hartley, C. S.\* [The role of arene-arene interactions in the folding of \*ortho\*-phenylenes](#). *J. Am. Chem. Soc.* **2013**, *135*, 6714–6722.
- 2012 Deshpande, R.; Wang, B.; Dai, L.; Jiang, L.; Hartley, C. S.; Zou, S.; Wang, H. S.\*; Kerr, L.\* [\*opp\*-Dibenzoporphyrins as a light-harvester for dye-sensitized solar cells](#). *Chem. Asian J.* **2012**, *11*, 2662–2669.
- 2012 Kapernaum, N. S.\*; Knecht, F.; Hartley, C. S.; Roberts, J. C.; Lemieux, R. P.; Giesselmann, F. [Formation of smectic phases in binary liquid crystal mixtures with a huge length ratio](#). *Beilstein J. Org. Chem.* **2012**, *8*, 1118–1125.
- 2012 Jiang, L.; Zaenglein, R. A.; Engle, J. T.; Mittal, C.; Hartley, C. S.; Ziegler, C. J.; Wang, H. S.\* [Water-soluble ionic benzoporphyrins](#). *Chem. Commun.* **2012**, *48*, 6927–6929.
- 2012 He, J.; Mathew, S. M.; Cornett, S. D.; Grundy, S. C.; Hartley, C. S.\* [\*ortho\*-Phenylene oligomers with terminal push-pull substitution](#). *Org. Biomol. Chem.* **2012**, *10*, 3398–3405.
- 2012 Leu, W. C. W.; Fritz, A. E.; Digianantonio, K. M.; Hartley, C. S.\* [Push-pull macrocycles: donor-acceptor compounds with paired linearly conjugated or cross-conjugated pathways](#). *J. Org. Chem.* **2012**, *77*, 2285–2298.
- 2011 Hartley, C. S.\* [Excited-state behavior of \*ortho\*-phenylenes](#). *J. Org. Chem.* **2011**, *76*, 9188–9191.

- 2011 Mathew, S. M.; Hartley, C. S.\* [Parent \*o\*-phenylene oligomers: synthesis, conformational behavior, and characterization](#). *Macromolecules* **2011**, *44*, 8425–8432.
- 2011 Jensen, J.; Grundy, S. C.; Bretz, S. L.; Hartley, C. S.\* [Synthesis and characterization of self-assembled liquid crystals: \*p\*-alkoxybenzoic acids](#). *J. Chem. Educ.* **2011**, *88*, 1133–1136. *Featured on the cover.*
- 2011 Jiang, L.; Engle, J. T.; Sirk, L.; Hartley, C. S.; Ziegler, C. J.; Wang, H.\* [Triphenylene-fused porphyrins](#). *Org. Lett.* **2011**, *13*, 3020–3023.
- 2011 Elliott, E. L.; Hartley, C. S.; Moore, J. S.\* [Covalent ladder formation becomes kinetically trapped beyond four rungs](#). *Chem. Commun.* **2011**, *47*, 5028–5030.
- 2010 Hartley, C. S.\*; He, J. [Conformational analysis of \*ortho\*-phenylenes: helical oligomers with frayed ends](#). *J. Org. Chem.* **2010**, *75*, 8627–8636.
- 2010 He, J.; Crase, J. L.; Wadumethrige, S. H.; Thakur, K.; Dai, L.; Zou, S.; Rathore, R.; Hartley, C. S.\* [\*ortho\*-Phenylenes: Unusual conjugated oligomers with a surprisingly long effective conjugation length](#). *J. Am. Chem. Soc.* **2010**, *132*, 13848–13857.
- 2010 Kapernaum, N.; Hartley, C. S.; Roberts, J. C.; Schoerg, F.; Krueerke, D.; Lemieux, R. P.; Giesselman, F.\* [Systematic variation of length ratio and the formation of smectic A and smectic C phases](#). *ChemPhysChem* **2010**, *11*, 2099–2107.
- 2009 Kapernaum, N.; Hartley, C. S.; Roberts, J. C.; Lemieux, R. P.; Giesselmann, F.\* [Molecular length distribution and the formation of smectic phases](#). *Beilstein J. Org. Chem.* **2009**, *5*, no. 65.
- 2007 Hartley, C. S.; Moore, J. S.\* [Programmed dynamic covalent assembly of unsymmetrical macrocycles](#). *J. Am. Chem. Soc.* **2007**, *129*, 11682–11683.
- 2007 Hartley, C. S.; Elliott, E. L.; Moore, J. S.\* [Covalent assembly of molecular ladders](#). *J. Am. Chem. Soc.* **2007**, *129*, 4512–4513.
- 2006 Hartley, C. S.; Kapernaum, N.; Roberts, J. C.; Giesselmann, F.; Lemieux, R. P.\* [Electroclinic effect in chiral SmA\\* liquid crystals induced by atropisomeric biphenyl dopants: amplification of the electroclinic coefficient using achiral additives](#). *J. Mater. Chem.* **2006**, *16*, 2329–2337.
- 2004 Hartley, C. S.; Wang, R.; Lemieux, R. P.\* [Ferroelectric liquid crystals induced by atropisomeric biphenyl dopants: correlation between the sign of induced polarization and the absolute configuration](#). *Chem. Mater.* **2004**, *16*, 5297–5303.
- 2004 Hartley, C. S.; Lemieux, R. P.\* [Ferroelectric liquid crystals induced by atropisomeric biphenyl dopants: the effect of chiral perturbations on achiral dopants](#). *Liq. Cryst.* **2004**, *31*, 1101–1108.
- 2002 Hartley, C. S.; Lazar, C.; Wand, M. D.; Lemieux, R. P.\* [Detection of chiral perturbations in ferroelectric liquid crystals induced by an atropisomeric biphenyl dopant](#). *J. Am. Chem. Soc.* **2002**, *124*, 13513–13518.
- 2001 Vizitiu, D.; Lazar, C.; Radke, J.; Hartley, C. S.; Glaser, M. A.; Lemieux, R. P.\* [Ferroelectric liquid crystals induced by atropisomeric biphenyl dopants: dependence of the polarization power on the nature of the symmetry-breaking groups](#). *Chem. Mater.* **2001**, *13*, 1692–1699.

## External Funding

- 2019–2022 [National Science Foundation](#), P.I., “MRI: Acquisition of a 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometer at Miami University”. Awarded: \$295,750.
- 2019–2022 [National Science Foundation](#), P.I., “Dynamic control and self-assembly of *ortho*-phenylene foldamers”. Awarded: \$470,000.
- 2018–2021 [Department of Energy](#), P.I., “Dissipative assembly of carboxylic acid anhydrides for nonequilibrium systems chemistry”. Awarded: \$742,000.

- 2016–2018 [American Chemical Society Petroleum Research Fund](#), P.I., “Dissipative Covalent Bond Formation for Non-Equilibrium Systems Chemistry”. Awarded: \$110,000.
- 2016–2019 [National Science Foundation](#), P.I., “*ortho*-Phenylenes in complex foldamer architectures”. Awarded: \$430,622.
- 2013–2016 [National Science Foundation](#), P.I., “*ortho*-Phenylenes: controlled folding and directed oxidative planarization”. Awarded: \$382,000.
- 2010–2013 [Air Force Office of Scientific Research](#), Young Investigators Program, P.I., “Cross-conjugated nanoarchitectures”. Awarded: \$438,816.
- 2009–2013 [National Science Foundation](#), P.I., “*ortho*-Phenylene oligomers and graphene nanoribbons”. Awarded: \$486,499.
- 2009 [National Science Foundation](#), Equipment Grant, co-P.I., “Acquisition of a MALDI-TOF/TOF MS spectrometer”. Awarded: \$326,625.
- 2008–2010 [American Chemical Society Petroleum Research Fund](#), P.I., “Graphene nanoribbons: synthesis and self-assembly of nanostructured materials.” Awarded: \$55,000. (Includes \$5000 from the “Supplements for Underrepresented Minority Research” program.)

## Ad Hoc Reviewer

### Journals

*Accounts of Chemical Research*  
*ACS Applied Materials & Interfaces*  
*ACS Macro Letters*  
*ACS Nano*  
*ACS Omega*  
*Angewandte Chemie*  
*Beilstein Journal of Organic Chemistry*  
*Canadian Journal of Chemistry*  
*Catalysts*  
*Chemical Communications*  
*The Chemical Record*  
*Chemical Science*  
*Chemistry—A European Journal*  
*Chemistry—An Asian Journal*  
*European Journal of Organic Chemistry*  
*Journal of the American Chemical Society*  
*Journal of Chemical Education*  
*Journal of Materials Chemistry C*  
*The Journal of Organic Chemistry*  
*Journal of Photochemistry and Photobiology A: Chemistry*  
*The Journal of Physical Chemistry*  
*Journal of Physical Organic Chemistry*  
*Macromolecular Chemistry and Physics*  
*Macromolecules*  
*Molecular Simulation*  
*Nature Chemistry*  
*Nature Communications*  
*New Journal of Chemistry*  
*Organic & Biomolecular Chemistry*  
*Organic Letters*

*Physical Chemistry Chemical Physics*  
*Polymer*  
*Polymer Chemistry*  
*RSC Advances*  
*Supramolecular Chemistry*  
*Synlett*  
*Tetrahedron*  
*Tetrahedron Letters*

### **Funding Agencies**

Air Force Office of Scientific Research  
American Chemical Society Petroleum Research Fund  
Arnold and Mabel Beckman Foundation  
Department of Energy  
European Research Council  
National Science Foundation  
Natural Sciences and Engineering Research Council of Canada

### **Other**

AAAS Marion Milligan Mason Award for Women in the Chemical Sciences  
International Conference on Computational Methods in Sciences and Engineering  
Oberlin College, Department of Chemistry and Biochemistry (Honors Examiner)

### **Students Supervised**

#### **Graduate Students**

2019– Kate Bradford  
2019– Juliana Livieri  
2018– Govinda Devkota  
2016– Isuru Jayalath  
2016– Sumalatha Peddi  
2016– Viraj Kirinda  
2015– Lasith Kariyawasam  
2014–2019 Gopi Nath Vemuri  
2013–2018 Zacharias Kinney (Ph.D., 2018)  
2011–2017 Fengfeng Ren (Ph.D., 2018)  
2012–2016 Paul Repasky (Ph.D., 2016)  
2010–2016 Meng Chu (Ph.D., 2016)  
2010–2014 Sanyo Mathew (Ph.D., 2014)  
2008–2011 Ashley Scioneaux (M.S., 2011)  
2007–2010 Jason Crase (M.S., 2010)  
2007–2009 Amanda Fritz (née Ponsot) (M.S., 2010)

#### **Postdoctoral Researchers**

2018– Dr. Mohammad Hossain  
2009–2013 Dr. Jian He  
2009–2013 Dr. Wade Leu  
2008–2009 Dr. Muhammad Younus

#### **Undergraduate Students**

2019– Maddy Gerken

2019-	Hunter Martin
2019-	Kaitlyn Persuric
2019-	Georgia Mantel
2018-	Molly Bookout
2018-	Josh Atkinson
2018-	Zoe Edelmann
2018-	Nick Kress
2017-2019	Connor Yeziarski
2016-2019	Run (Trek) Jiang
2018	David Reitenbach
2018	Angelica Dibble (REU)
2016-2018	Hehe (Frank) Wang
2015-2018	Brian Spinello
2016-2017	Alexis Knight
2016-2017	Rathiesh Pandian
2016-2017	Aditya Singh
2015-2017	Connor Henry
2015-2017	Sam Hudson
2016	Areon Smith (REU)
2016	Erika Stopler (REU)
2013-2015	Han (Harry) Dong
2015	Ethan Campbell
2014-2015	Kody Day
2014-2015	Joe Dowling
2014-2015	Morgan Sunshein
2012-2014	Jack Schirmer
2014	Tori Seto
2012-2014	Kelsey Cook
2013	Emma Kunimoto
2013	Patrick McHenry
2013	Rachel Warrell (REU)
2012-2013	Wyatt Andrasik
2012-2013	Vivien Clayton
2011-2013	Daniel Ward
2012	Zacharias Kinney (REU)
2012	James Molina (REU)
2010-2012	Sean Bresler
2009-2012	Stephan Grundy
2009-2012	Amanda Wilson
2011	Cherrelle Dugger (REU)
2010-2011	Jake Gregg
2009-2011	Sarah Cornett
2008-2011	Katherine Digianantonio
2008-2010	Conor Craft
2008	Thomas Sullivan
2008	Benjamin Wiechmann

### Courses Taught

2019	CHM 255, Organic Chemistry Laboratory for Chemistry Majors, 81 students
2018	CHM 254, Organic Chemistry Laboratory for Chemistry Majors, 88 students

2018	CHM 426/526, Spectroscopic Identification of Structure, 6/15 students
2017	CHM 254, Organic Chemistry Laboratory for Chemistry Majors, 69 students
2017	CHM 720, Organic Graduate Seminar
2017	CHM 426/526, Spectroscopic Identification of Structure, 14/17 students
2016	CHM 254, Organic Chemistry Laboratory for Chemistry Majors, 71 students
2016	CHM 600, Departmental Seminar
2016	CHM 252/252.H, Organic Chemistry for Chemistry Majors, 63/3 students
2016	CHM 720, Organic Graduate Seminar, 16 students
2015	CHM 252/252.H, Organic Chemistry for Chemistry Majors, 55/22 students
2015	CHM 720, Organic Graduate Seminar, 17 students
2014	CHM 241, Organic Chemistry, 134 students
2014	CHM 245, Organic Chemistry Laboratory, 88 students
2014	CHM 720, Organic Graduate Seminar, 15 students
2013	CHM 241, Organic Chemistry, 199 students
2013	CHM 600, Departmental Seminar
2013	CHM 426/526, Spectroscopic Identification of Structure, 10/7 students
2012	CHM 241, Organic Chemistry, 165 students
2012	CHM 426/526, Spectroscopic Identification of Structure, 9/6 students
2011	CHM 251/251.H, Organic Chemistry for Chemistry Majors, 59/14 students
2011	CHM 426/526, Spectroscopic Identification of Structure, 5/10 students
2010	CHM 251, Organic Chemistry for Chemistry Majors, 64 students
2009	CHM 251, Organic Chemistry for Chemistry Majors, 70 students
2009	CHM 692, Chemical Principles and Theory, 6 students
2009	CHM 426/526, Spectroscopic Identification of Structure, 10/13 students
2008	CHM 251, Organic Chemistry for Chemistry Majors, 59 students
2008	CHM 692, Chemical Principles and Theory, 11 students
2008	CHM 426/526, Spectroscopic Identification of Structure, 4/13 students
2007	CHM 251, Organic Chemistry for Chemistry Majors, 55 students

### University and Departmental Service

2017–	Graduate Admissions Committee (Chair, 2017–)
2016–	Miami LSAMP (Louis Stokes Alliance for Minority Participation), Advisory Board
2015–	Organic Division Coordinator
2018–2019	Planning Committee
2013–2019	Website Committee
2017–2018	Personnel Committee, College of Arts & Science
2015–2018	IT Policy Committee, University Senate
2016–2017	Assistant Chair
2013–2017	Planning Committee
2016	Senior Staff Appointments Committee
2014–2016	Governance Committee, College of Arts & Science
2013–2015	Divisional Appeals Committee, Departmental Alternate
2013–2015	Undergraduate Recruiting Committee (Chair, 2013–2015)
2013–2015	Academic Achievement Awards Sub-Committee, Graduate Council
2010–2013	Senior Staff Appointments Committee
2007–2013	Graduate Admissions Committee (Chair, 2012–2013)
2009–2012	Instrumentation Lab Advisory Committee
2007–2011	Equipment and Supplies Committee (Chair, 2008–2011)



## Professional Affiliations

2007– American Chemical Society: Member  
2001–2006 Chemical Institute of Canada: Member

## Selected Presentations

- 2019 Hartley, C. S. “Control of molecular geometry in space and time.” Invited seminar, Tulane University, New Orleans, Louisiana, March 10, 2019.
- 2018 Hartley, C. S. “Control of molecular geometry in space and time.” Invited seminar, University of Akron, Akron, Ohio, November 16, 2018.
- 2018 Hartley, C. S.; Kinney, Z. J.; Vemuri, G. N. “Controlling the Folding and Covalent Assembly of *ortho*-Phenylenes.” Keynote lecture, 2018 Bordeaux Symposium on Foldamers, Bordeaux, France, September 24–26, 2018.
- 2018 Hartley, C. S. “Control of molecular geometry in space and time.” Invited seminar, Denison University, Granville, Ohio, February 27, 2018.
- 2017 Hartley, C. S. “Control of molecular geometry in space and time.” Invited seminar, Northern Illinois University, DeKalb, Illinois, October 2, 2017.
- 2017 Hartley, C. S. “Twisted macrocycles through the combination of folding with covalent assembly.” Oral presentation, 17<sup>th</sup> International Symposium On Novel Aromatic Compounds, Stony Brook University, Stony Brook, New York, July 23–28, 2017.
- 2016 Hartley, C. S. “Controlling molecular geometry in space and time.” Departmental seminar, Miami University, Oxford, Ohio, September 22, 2016.
- 2016 Hartley, C. S.; Repasky, P. J.; Agra-Kooijman, D.; Kumar, S. “Liquid crystalline sanidic dibenzo[*fg,op*]naphthacenes.” Poster presentation, 26<sup>th</sup> International Liquid Crystals Conference, Kent State University, Kent, Ohio, July 31–August 5, 2016.
- 2016 Hartley, C. S. “*ortho*-Phenylenes: foldamers and precursors to board-like liquid crystals.” Invited speaker, Air Force Research Laboratory, Wright–Patterson Air Force Base, July 15, 2016.
- 2016 Hartley, C. S. “Controlling and exploiting the folding of *ortho*-phenylenes.” Invited speaker, Workshop on Aromatic Foldamers 2016, University of the Sciences, Philadelphia, Pennsylvania, June 20–21, 2016.
- 2015 Hartley, C. S. “*ortho*-Phenylenes: foldamers and precursors to board-like liquid crystals.” Invited seminar, Marquette University, Milwaukee, Wisconsin, December 3, 2015.
- 2015 Hartley, C. S.; Chu, M.; Vemuri, G. N. “*ortho*-Phenylenes: control of folding behavior and incorporation within complex architectures.” Oral presentation, 250<sup>th</sup> ACS National Meeting and Exposition, Boston, Massachusetts, August 16–20, 2015.
- 2015 Hartley, C. S.; Ren, F.; Day, K. “Dynamic covalent assembly of heterosequenced stacked architectures.” Poster presentation, 2015 Gordon Research Conference on Physical Organic Chemistry, Holderness School, New Hampshire, June 21–25, 2015.
- 2014 C. S. Hartley, “New board-like small-molecule liquid crystals based on dibenzo[*fg,op*]naphthacenes”. Oral presentation, 248<sup>th</sup> ACS National Meeting and Exposition, San Francisco, California, August 10–14, 2014.
- 2014 C. S. Hartley, “*ortho*-Phenylenes: foldamers and precursors to board-like liquid crystals”. Invited speaker, Queen’s University, Kingston, Ontario, March 7, 2014.
- 2014 C. S. Hartley, “Folding of *ortho*-phenylenes”. Invited speaker, College of Mount St. Joseph, Cincinnati, Ohio, January 31, 2014.

- 2013 C. S. Hartley, "Folding of *ortho*-phenylenes". Oral presentation, 246<sup>th</sup> ACS National Meeting and Exposition, Indianapolis, Indiana, September 8–12, 2013.
- 2013 S. M. Mathew and C. S. Hartley, "Folding of *ortho*-phenylenes". Poster presentation, 2013 Gordon Conference on Physical Organic Chemistry, Holderness School, New Hampshire, June 23–28, 2013.
- 2013 J. He, C. Dugger, and C. S. Hartley, "Board-like mesogens with dibenzo[*fg,op*]naphthacene cores". Poster presentation, 2013 Gordon Conference on Liquid Crystals, University of New England, Maine, June 16–21, 2013.
- 2013 C. S. Hartley, "*ortho*-Phenylenes and push–pull macrocycles: unusual organic nanoarchitectures". Invited speaker, Southern Illinois University, Carbondale, Illinois, March 1, 2013.
- 2012 C. S. Hartley, "*ortho*-Phenylenes and push–pull macrocycles: unusual organic nanoarchitectures". Invited speaker, Kent State University, Liquid Crystals Institute, Kent, Ohio, November 14, 2012.
- 2012 C. S. Hartley, "Folding of *ortho*-phenylenes". 43<sup>rd</sup> Central Regional Meeting of the American Chemical Society, Dearborn, Michigan, June 5–8, 2012.
- 2012 C. S. Hartley, "*ortho*-Phenylenes and push–pull macrocycles: unusual organic nanoarchitectures". Invited speaker, Air Force Research Laboratory, Wright–Patterson Air Force Base, April 25, 2012.
- 2012 C. S. Hartley, "*ortho*-Phenylenes and push–pull macrocycles: unusual organic nanoarchitectures". Invited speaker, University of Nevada, Reno, Nevada, February 16, 2012.
- 2011 C. S. Hartley, "*ortho*-Phenylenes and cross-conjugated macrocycles: unusual architectures for organic nanotechnology". Invited speaker, Otterbein University, Westerville, Ohio, September 20, 2011.
- 2011 C. S. Hartley, "*ortho*-Phenylenes: stacked helical oligomers in solution". Oral presentation, 14<sup>th</sup> International Symposium on Novel Aromatic Compounds, University of Oregon, Eugene, Oregon, July 24–29, 2011.
- 2011 C. S. Hartley, Jian He, and Ashley N. Scioneaux, "Synthetic approaches to board-like mesogens: dibenzo[*fg,op*]naphthalenes and tetrabenzocyclines". Poster presentation, 2011 Gordon Conference on Liquid Crystals, Mount Holyoke College, Massachusetts, June 19–24, 2011.
- 2010 C. S. Hartley and Jian He, "*ortho*-Phenylenes: helical oligomers with frayed ends". Oral presentation, 38<sup>th</sup> Physical Organic Mini-Symposium, Guelph, Ontario, Nov. 12–14, 2010.
- 2010 C. S. Hartley, "*ortho*-Phenylenes and cross-conjugated macrocycles: unusual molecular architectures for single-molecule devices". Invited speaker, University of Evansville, Evansville, Indiana, October 29, 2010.
- 2010 C. S. Hartley, "Construction of 2D organic nanostructures". Invited speaker, Indiana State University, Terre Haute, Indiana, January 19, 2010.
- 2009 C. S. Hartley, A. E. Ponsot, and K. M. Digianantonio, "Cross-conjugated shape-persistent macrocycles". Poster presentation, 37<sup>th</sup> Physical Organic Mini-Symposium, Buffalo, New York, November 13–15, 2009.
- 2009 C. S. Hartley, Muhammad Younus, Jason L. Crase, and Conor Craft, "Bottom-up synthesis of graphenes as potential liquid crystals". Poster presentation, 2009 Gordon Conference on Liquid Crystals, Colby–Sawyer College, New Hampshire, June 14–19, 2009.
- 2009 C. S. Hartley, "Construction of 2D organic nanostructures via dynamic covalent chemistry". Invited speaker, Wright State University, Dayton, Ohio, May 15, 2009.
- 2008 C. S. Hartley, "Construction of 2D organic nanostructures via dynamic covalent chemistry". Invited speaker, University of Cincinnati, Cincinnati, Ohio, May 15, 2008.
- 2007 C. S. Hartley, "Construction of 2D organic nanostructures via dynamic covalent chemistry".

Invited speaker, Andrews University, Berrien Springs, Michigan, October 18, 2007.

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