

Curriculum Vitae

ERIN T. PELKEY

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PROFESSIONAL EXPERIENCE

- Professor of Chemistry, Hobart and William Smith Colleges **2013 – present**
- Associate Professor of Chemistry, Hobart and William Smith Colleges **2007 – 2013**
Chair, Chemistry Department **2010 – 2013**
- Assistant Professor of Chemistry, Hobart and William Smith Colleges **2001 – 2007**
- Postdoctoral Fellow, Stanford University **1999 – 2001**
Research Mentor: Professor Paul A. Wender
“Design, Synthesis, and Evaluation of Molecular Transporters that Enhance Cellular Uptake”

EDUCATION

- Ph.D. Organic Chemistry, Dartmouth College, Hanover, NH **1994 – 1998**
Research Mentor: Professor Gordon W. Gribble
“Investigation into the Syntheses and Reactions of 2- and 3-Nitroindoles and Discovery of Novel Syntheses of the Pyrrolo[3,4-*b*]indole and Pyrrolo[2,3-*b*]indole Ring Systems”
- B.A. Chemistry (*magna cum laude*), Carleton College, Northfield, MN **1990 – 1994**
Research Mentor: Professor Charles H. Carlin
“Approaches to the Synthesis of Conformationally Restricted Analogs of SAMP/RAMP”

RESEARCH INTERESTS

- Heterocyclic chemistry
- Total synthesis of biologically active natural products
- Metal-mediated tandem reactions

HONORS AND AWARDS

- Hobart and William Smith Colleges Faculty Research Prize **2018 – 2019**
- Hobart and William Smith Colleges Faculty Teaching Prize **2006 – 2007**
- Research Corporation Cottrell Scholar Awardee **2003 – 2005**
- Camille and Henry Dreyfus Start-Up Awardee **2001 – 2006**
- NIH Postdoctoral Fellowship **1999 – 2001**
- American Chemical Society, Division of Organic Chemistry Graduate Fellowship **1997 – 1998**
- Honorable Mention, NSF Predoctoral Fellowship **1994**
- Richard W. Ramette Teaching Award, Carleton College **1993 – 1994**

PROFESSIONAL ACTIVITIES

- Grant Referee: National Institute of Health
Synthetic and Biological Chemistry B Review Panel (October 2010)
American Chemical Society-Petroleum Research Fund
National Science Foundation
Virtual Review Panel (2015, 2017)
Ad Hoc (2007, 2010, 2016)
Research Corporation
- Journal Referee: *Journal of Organic Chemistry*
Organic Letters
Accounts of Chemical Research
Tetrahedron Letters
Tetrahedron
Synlett
Synthesis
Journal of Heterocyclic Chemistry
Beilstein Journal of Organic Chemistry
- External Reviewer: Muhlenberg Department of Chemistry **March 2013**
- Membership: American Chemical Society **1995 – present**

COURSES TAUGHT: HOBART AND WILLIAM SMITH COLLEGES

- FSEM 166 Miracle Drugs
- CHEM 110 Introductory Chemistry I
- CHEM 110 Lab Introductory Chemistry I
- CHEM 120 Introductory Chemistry II
- CHEM 120 Lab Introductory Chemistry II
- CHEM 190 Lab Accelerated General Chemistry
- CHEM 240 Organic Chemistry I
- CHEM 240 Lab Organic Chemistry I
- CHEM 241 Organic Chemistry II
- CHEM 241 Lab Organic Chemistry II
- CHEM 347 Advanced Organic Chemistry
- CHEM 360/460 Chemistry Junior/Senior Capstone

EXTERNAL GRANT ACTIVITY

Organic Chemistry Research Award (Organic Syntheses) “Synthesis and Arylation Reactions of Heterocyclic Enaminones”	\$8,000	2021 (deferred from 2020)
NSF-RUI #1362183 “RUI: Developing Convergent Syntheses of Nitrogen Heterocycles”	\$210,000	2014 – 2018
NIH-R15, GM086819-01 “New Methodology for the Synthesis of Highly Functionalized Nitrogen Heterocycles”	\$197,648	2009 – 2013

NSF–TUES #1044396 (with Professors Miller, Mowery, and Carle) “TUES: Transforming Cell Biology and Organic Chemistry through Incorporation of the HDACi Cancer Therapeutic Lab Project”	\$180,000	2011 – 2015
NSF–MRI, #0722178 (with Professors Miller and de Denus) “MRI: Acquisition of an NMR Spectrometer to Maintain Active Undergraduate Education and Research Programs.”	\$342,000	2007 – 2010
ACS–Petroleum Research Fund, Type G “Development of Tandem Metal Mediated Cyclization Reactions for the Total Synthesis of Alkaloid Natural Products”	\$35,000	2004 – 2007
Research Corporation, Cottrell Scholars Award “Regiocontrolled Synthesis of Complex Pyrrole Heterocycles”	\$46,018	2003 – 2005
Council of Undergraduate Research Undergraduate Student Summer Research Fellowships in Science	\$3,500	2002
Camille and Henry Dreyfus Start-Up Grant “New Synthetic Approach to Staurosporine Derivatives, Potent Inhibitors of Protein Kinase C”	\$20,000	2001 – 2006

INTERNAL GRANT ACTIVITY

Hobart and William Smith Colleges, Faculty Research Grant “Investigation into the Total Synthesis of Lactam Alkaloids isolated from the Caribbean sponge, <i>Halichondria melanodocia</i> ”	\$1,091	2021 – 2022
Hobart and William Smith Colleges, Faculty Research Grant “Investigating Arylation Reactions of Heterocyclic Enaminones”	\$1,400	2020 – 2021
Hobart and William Smith Colleges, Faculty Research Grant “Investigating Arylation Reactions of Heterocyclic Enaminones”	\$1,100	2019 – 2020
Hobart and William Smith Colleges, Faculty Research Grant “Exploring 2-Methoxyphenyl as an Activating Group”	\$1,300	2018 – 2019
Hobart and William Smith Colleges, Faculty Research Grant “Exploring 2-Methoxyphenyl as an Activating Group”	\$1,300	2018 – 2019
Hobart and William Smith Colleges, Faculty Research Grant “Synthesis of Simplified Analogues of Staurosporine”	\$1,500	2015 – 2016
Hobart and William Smith Colleges, Faculty Research Grant “Investigating Oxidative Addition Reactions of Tetramic Acids”	\$1,200	2014 – 2015

Hobart and William Smith Colleges, Faculty Research Grant “Investigating Oxidative Cyclization Reactions to Phenanthrene-Fused 3-Pyrrolin-2-ones”	\$2,000	2013 – 2014
Hobart and William Smith Colleges, Faculty Research Grant “Developing New Methods Aimed at the Preparation of Novel Analogs of Staurosporinone”	\$1,700	2012 – 2013
Hobart and William Smith Colleges, Faculty Research Grant “Developing New Methods Aimed at the Preparation of Novel Analogs of Staurosporinone”	\$1,400	2011 – 2012
Hobart and William Smith Colleges, Faculty Research Grant “Developing New Methods for the Preparation of Biologically Active Five-Membered Ring Nitrogen Heterocycles”	\$2,516	2008 – 2009
Hobart and William Smith Colleges, Student Research Assistantship	\$343	Spring 2008
Hobart and William Smith Colleges, Faculty Research Grant “Preparation of Biologically Active Pyrroles and 3-Pyrrolin-2-ones”	\$1,825	2007 – 2008
Hobart and William Smith Colleges, Student Research Assistantship	\$286	Spring 2007
Hobart and William Smith Colleges, Faculty Research Grant “Synthesis of Cytotoxic 2-Ketopyrrole from Pyrrole Weinreb Amides”	\$1,187	2004 – 2005
Hobart and William Smith Colleges, Faculty Research Grant “Developing New Synthetic Methods in Heterocyclic Chemistry”	\$1,275	2003 – 2004
Hobart and William Smith Colleges, Faculty Research Grant “Synthesis of Novel Staurosporine Analogs for the Development of Novel Anti-Cancer Agents”	\$1,133	2001 – 2002

PEER-REVIEWED PUBLICATIONS (INDEPENDENT CAREER)

(*HWS student co-authors)

11. Mowery, P.; *Filkorn, M.M.; *Hurysz, B.; *Kwansare, D.O.; *Lafferty, M.M.; *McFadden, M.A.; *Neerukonda, N.D.; *Patel, R.R.; *Pierce, K.; *Socket, K.A.; *Truax, N.J.; *Webster, N.R.; Pelkey, E.T. Discovery of an indole-substituted furanone with tubulin polymerization inhibition activity. *Bioorg. Med. Chem. Lett.* **2021**, 41, 127991. (doi: 10.1016/j.bmcl.2021.127991)
10. *Moore, C.A.; *Ohman, B.F.; *Garman, M.J.; *Liquori, M.E.; *Degan, D.M.; *Voellinger, K.B.; DePersis, M.J.; Pelkey, E.T. Investigating the stereochemical outcome of a tandem cyclization-coupling reaction leading to a 3-arylmethylideneisobenzofuran-1-one. *Arkivoc* **2018**, part (iv), 50-69. (doi: 10.24820/ark.5550190.p010.480)
9. Mowery, P.; *Banales Mejia, F.; *Franceschi, C.L.; *Kean, M.H.; *Kwansare, D.O.; *Lafferty, M.M.; *Neerukonda, N.D.; *Rolph, C.E.; *Truax, N.J.; Pelkey, E.T. Synthesis and Evaluation of

- the Anti-Proliferative Activity of Diaryl-3-pyrrolin-2-ones and Fused Analogs. *Bioorg. Med. Chem. Lett.* **2017**, *27*, 191-195. (doi: 10.1016/j.bmcl.2016.11.076)
8. *Banales Mejia, F.; *Lafferty, M.M.; *Melvin, S.J.; *Truax, N.J.; *Kean, M.H.; Pelkey, E.T. Lewis Acid Mediated Addition of Indoles and Alcohols to Tetronic Acid and Tetramic Acids. *Synlett* **2017**, *28*, 260-264. (doi: 10.1055/s-0036-1588335)
 7. *Truax, N.J.; *Banales Mejia, F.; *Kwansare, D.O.; *Lafferty, M.M.; *Kean, M.H.; Pelkey, E.T. Synthesis of Benzo[*a*]carbazoles and an Indolo[2,3-*a*]carbazole from 3-Aryltetramic Acids. *J. Org. Chem.* **2016**, *81*, 6808-6815. (doi: 10.1021/acs.joc.6b01072)
 6. *van Loon, A.A.; *Holton, M.K.; *Downey, C.R.; *White, T.M.; *Rolph, C.E.; *Bruening, S.R.; *Li, G.; *Delaney, K.M.; Pelkey, S.J.; Pelkey, E.T. Preparation of Dibenzo[*e,g*]isoindol-1-ones via Scholl-Type Oxidative Cyclization Reactions. *J. Org. Chem.* **2014**, *79*, 8049-8058. (doi: 10.1021/jo501185f)
 5. *Greger, J.G.; *Yoon-Miller, S.J.P.; *Bechtold, N.R.; *Flewelling, S.A.; *MacDonald, J.P.; *Downey, C.R.; *Cohen, E.A.; Pelkey, E.T. Synthesis of Unsymmetrical 3,4-Diaryl-3-pyrrolin-2-ones utilizing Pyrrole Weinreb Amides. *J. Org. Chem.* **2011**, *76*, 8203-8214. (doi: 10.1021/jo2013516)
 4. *Yoon-Miller, S.J.P.; *White, K.P.; *Dorward, K.M.; Pelkey, E.T. Suzuki-Miyaura Arylations of Tetramic Acid Sulfonates: Evaluation of Lactam Protection, Sulfonate Esters, and Sterics. *J. Heterocycl. Chem.* **2009**, *46*, 447-454. (doi: 10.1002/jhet.96)
 3. *Dorward, K.M.; *Guthrie, N.J.; Pelkey, E.T. Suzuki-Miyaura Cross-Coupling Approach to 3,4-Diaryl-3-pyrrolin-2-ones from Tetramic Acid Triflates. *Synthesis* **2007**, 2317-2322. (doi: 10.1055/s-2007-983778)
 2. *Yoon-Miller, S.J.P.; *Opalka, S.M.; Pelkey, E.T. Short Synthesis of 4-Aryl-3-pyrrolin-2-ones. *Tetrahedron Lett.* **2007**, *48*, 827-830. (doi: 10.1016/j.tetlet.2006.11.156)
 1. *Coffin, A.R.; *Roussell, M.A.; *Tserlin, E.; Pelkey, E.T. Regiocontrolled Synthesis of Pyrrole-2-carboxaldehydes and 3-Pyrrolin-2-ones from Pyrrole Weinreb Amides. *J. Org. Chem.* **2006**, *71*, 6678-6681. (doi: 10.1021/jo061043m)

PEER-REVIEWED PUBLICATIONS (DARTMOUTH AND STANFORD)

18. Pelkey, E.T.; Jun, J.; Gribble, G.W. Synthesis and Diels-Alder Reactions of Pyrrolo[3,4-*b*]indoles. A Synthesis of 4-Acetamidocarbazoles and an Approach to the Antiostatins. *J. Ind. Chem. Soc.* **2013**, *90*, 1525-1536.
17. Badenock, J.C.; Jordan, J.A.; Pelkey, E.T.; Gribble, G.W.; Jasinski, J.P. 4-Phenylsulfonyl-2-(*p*-tolylsulfonyl)-1*H*,8*H*-pyrrolo[2,3-*b*]indole. *Acta Cryst. E*, **2010**, *66*, o2757-o2758. (doi: 10.1107/S1600536810039425)
16. Roy, S.; Pelkey, E.T.; Gribble, G.W.; Jasinski, J.P. 3-Nitro-1-(phenylsulfonyl)-1*H*-indole. *Acta Cryst. E*, **2007**, *63*, 1829-1831. (doi: 10.1107/S1600536807011373)

15. Kishbaugh, T.; Pelkey, E.T.; Gribble, G.W.; Jasinski, J.P. 6-Nitro-1-(phenylsulfonyl)-1*H*-indole. *Acta Cryst. E*, **2006**, *62*, 5760-5762. (doi: 10.1107/S1600536806048616)
14. Pelkey, E.T.; Gribble, G.W. Novel Electrophilic *ipso* Acylation-Detosylation Reaction of Pyrroles. *Can. J. Chem.* **2006**, *84*, 1338-1342. (doi: 10.1139/v06-075)
13. Wender, P.A.; Kreider, E.; Pelkey, E.T.; Rothbard, J.; VanDeusen, C.L. Dendrimeric Molecular Transporters: Synthesis and Evaluation of Tunable Polyguanidino Dendrimers That Facilitate Cellular Uptake. *Org. Lett.* **2005**, *7*, 4815-4818. (doi: 10.1021/ol051496y)
12. Gribble, G.W.; Saulnier, M.G.; Pelkey, E.T.; Kishbaugh, T.L.S.; Liu, Y.; Trujillo, H.A.; Keavy, D.J.; Davis, D.A.; Conway, S.C.; Switzer, F.L.; Silva, R.A.; Obaza-Nutaitis, J.A.; Sibi, M.P.; Moskalev, N.V.; Chang, T.; Simon, W.; Peleman, B.; Sponholtz, W.R.; Chau, R.W.; Garass, B.; Sinha, M.S.; McGowan, M.A.; Reese, M.R.; Harpp, K.S. Novel Indole Chemistry in the Synthesis of Heterocycles. *Curr. Org. Chem.* **2005**, *9*, 1493-1520. (doi: 10.2174/138527205774370487)
11. Wender, P.A.; Jessop, T.C.; Pattabiraman, K.; Pelkey, E.T.; VanDeusen, C.L. An Efficient, Scalable Synthesis of the Molecular Transporter Octaarginine via a Segment Doubling Strategy. *Org. Lett.* **2001**, *3*, 3229-3232. (doi: 10.1021/ol0161108)
10. Wender, P.A.; Mitchell, D.K.; Pattabiraman, K.; Pelkey, E.T.; Steinman, L.; Rothbard, J.B. Peptoid Molecular Transporters: The Design, Synthesis, and Evaluation of Molecules that Enhance or Enable Cellular Uptake. *Proc. Natl. Acad. Sci. USA* **2000**, *97*, 13003-13008. (doi: 10.1073/pnas.97.24.13003)
9. Gribble, G.W.; Pelkey, E.T.; Simon, W.M.; Trujillo, H.A. Regioselective 1,3-Dipolar Cycloaddition Reactions of Unsymmetrical Münchnones (1,3-Oxazolium-5-olates) with 2- and 3-Nitroindoles. A New Synthesis of Pyrrolo[3,4-*b*]indoles. *Tetrahedron* **2000**, *56*, 10133-10140. (doi: 10.1016/S0040-4020(00)00858-9)
8. Simon, W.M.; Trujillo, H.A.; Pelkey, E.T.; Gribble, G.W.; Jasinski, J.P. The Fused Heterocycle 2-Benzyl-3-methyl-1-phenyl-4-(phenylsulfonyl)-2*H*,4*H*-pyrrolo[3,4-*b*]indole. *Acta Cryst. C* **2000**, *56*, 461-462. (doi: 10.1107/S0108270100000020)
7. Trujillo, H.A.; Simon, W.M.; Pelkey, E.T.; Gribble, G.W.; Jasinski, J.P. A Novel Class of Fused Heterocycles, Benzo[*b*]furo[2,3-*c*]pyrroles. *Acta Cryst. C* **2000**, *56*, 386-388. (doi: 10.1107/S0108270199016492)
6. Pelkey, E.T.; Barden, T.C.; Gribble, G.W. Nucleophilic Addition Reactions of 2-Nitro-1-(phenylsulfonyl)indole. A New Synthesis of 3-Substituted-2-nitroindoles. *Tetrahedron Lett.* **1999**, *40*, 7615-7618. (doi: 10.1016/S0040-4039(99)01557-9)
5. Pelkey, E.T.; Gribble, G.W. Synthesis and Reactions of *N*-Protected 3-Nitroindoles. *Synthesis* **1999**, 1117-1122. (doi: 10.1055/s-1999-3512)
4. Gribble, G.W.; Pelkey, E.T.; Switzer, F.L. New Syntheses of Pyrrolo[3,4-*b*]indoles, Benzofuro[2,3-*c*]pyrroles, and Benzothieno[2,3-*c*]pyrroles Utilizing a 1,3-Dipolar Cycloaddition

- of Münchnones (1,3-Oxazolium-5-olates) with Nitroheterocycles. *Synlett* **1998**, 1061-1064. (doi: 10.1055/s-1998-1887)
3. Pelkey, E.T.; Gribble, G.W. One-Step Syntheses of the Pyrrolo[2,3-*b*]indole and Pyrrolo[3,4-*b*]indole Ring Systems from 3-Nitroindoles. *J. Chem. Soc., Chem. Commun.* **1997**, 1873-1874. (doi: 10.1039/A704217E)
 2. Pelkey, E.T.; Gribble, G.W. Synthesis of 2-Nitroindoles via the Sundberg Indole Synthesis. *Tetrahedron Lett.* **1997**, 38, 5603-5606. (doi: 10.1016/S0040-4039(97)01272-0)
 1. Pelkey, E.T.; Chang, L.; Gribble, G.W. An Abnormal Barton-Zard Reaction Leading to the Pyrrolo[2,3-*b*]indole Ring System. *J. Chem. Soc., Chem. Commun.* **1996**, 1909-1910. (doi: 10.1039/CC9960001909)

PATENTS (STANFORD)

2. Rothbard, J. B.; Wender, P. A.; Pattabiraman, K.; Pelkey, E. T.; Jessop, T. C. Guanidinium Transport Reagents and Conjugates. U.S. Patent 7,168,814, **January 31, 2007**.
1. Wender, P. A.; VanDeusen, C. L.; Pattabiraman, K.; Pelkey, E. T.; Jessop, T. C. Bi-Directional Synthesis of Oligoguanidine Transport Agents. U.S. Patent 7,067,698, **June 27, 2006**.

BOOK CHAPTERS

20. Pelkey, E.T.; Pelkey, S.J.; Greger, J.G. Reactions of 3-Pyrrolin-2-ones. In *Advances in Heterocyclic Chemistry*, Scriven, E. and Ramsden, C., Eds.; Elsevier Science: New York, **2019**, 128, 433-565. (doi: 10.1016/bs.aihch.2018.10.004)
19. Pelkey, E.T.; Pelkey, S.J.; Greger, J.G. De Novo Synthesis of 3-Pyrrolin-2-ones. In *Advances in Heterocyclic Chemistry*, Scriven, E. and Ramsden, C., Eds.; Elsevier Science: New York, **2015**, 115, 151-287. (doi: 10.1016/bs.aihch.2015.04.001)
18. Russel, J.S.; Pelkey, E.T.; Greger, J.G. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2011**, 23, 155-194. (doi: 10.1016/B978-0-08-096805-6.00006-1)
17. Pelkey, E.T. Metalation of Indole. In *Topics in Heterocyclic Chemistry*. Gribble G.W., Ed.; Heterocyclic Scaffolds II: Reactions and Applications of Indoles; Springer-Verlag: Berlin, **2010**, 26, 141-191. (doi: 10.1007/7081_2010_56)
16. Russel, J.S.; Pelkey, E.T.; Yoon-Miller, S.J.P. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2011**, 22, 143-180. (doi: 10.1016/S0959-6380(11)22006-3)
15. Russel, J.S.; Pelkey, E.T.; Yoon-Miller, S.J.P. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2009**, 21, 145-178. (doi: 10.1016/S0959-6380(09)70033-9)

14. Russel, J.S.; Pelkey, E.T. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2009**, *20*, 122-151. (doi: 10.1016/S0959-6380(09)70010-8)
13. Pelkey, E.T. Selenophenes. In *Comprehensive Heterocyclic Chemistry III*, Katritzky, A.R.; Ramsden, C.A.; Scriven, E.F.V.; Taylor, R., Eds.; Elsevier: Oxford, **2008**; *Vol. 3*, 975-1006. (doi: 10.1016/B978-008044992-0.00313-8)
12. Pelkey, E.T.; Russel, J.S. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2008**, *19*, 135-175. (doi: 10.1016/S0959-6380(08)80008-6)
11. Pelkey, E.T. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2007**, *18*, 150-186. (doi: 10.1016/S0959-6380(07)80010-9)
10. Pelkey, E.T. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2005**, *17*, 109-141. (doi: 10.1016/S0959-6380(05)80328-9)
9. Bergman, J.; Janosik, T.; Pelkey, E.T. Five-Membered Ring Systems: Pyrroles and Benzo Derivatives. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2005**, *16*, 128-157. (doi: 10.1016/S0959-6380(05)80048-0)
8. Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Joule, J.A., Eds.; Elsevier Science: New York, **2003**, *15*, 116-139. (doi: 10.1016/S0959-6380(03)80008-9)
7. Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Gilchrist, T., Eds.; Elsevier Science: New York, **2002**, *14*, 90-113. (doi: 10.1016/S0959-6380(02)80007-1)
6. Rothbard, J.B.; Kreider, E.; Pattabiraman, K.; Pelkey, E.T.; VanDeusen, C.L.; Wright, L.; Wylie, B.L.; Wender, P.A. Arginine-Rich Molecular Transporters for Drugs: The Role of Backbone and Sidechain Variations on Cellular Uptake. In *CRC Handbook on Cell Penetrating Peptides*, Langel, Ü., Ed.; CRC Press: New York, **2002**, 141-160.
5. Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Gilchrist, T., Eds.; Elsevier Science: New York, **2001**, *13*, 87-110. (doi: 10.1016/S0959-6380(01)80007-6)
4. Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Gilchrist, T., Eds.; Elsevier Science: New York, **2000**, *12*, 92-113. (doi: 10.1016/S0959-6380(00)80008-2)

3. Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Gilchrist, T., Eds.; Elsevier Science: New York, **1999**, *11*, 102-123. (doi: 10.1016/S0959-6380(99)80008-7)
2. Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. and Gilchrist, T., Eds.; Elsevier Science: New York, **1998**, *10*, 87-108. (doi: 10.1016/S0959-6380(98)80007-X)
1. Press, J.B.; Pelkey, E.T. Five-Membered Ring Systems: Thiophenes & Se, Te Analogs. In *Progress in Heterocyclic Chemistry*, Gribble, G.W. & Gilchrist, T., Eds.; Elsevier Science: New York, **1997**, *9*, 77-96. (doi: 10.1016/S0959-6380(97)80007-4)

CONFERENCE PRESENTATIONS (INDEPENDENT CAREER)

(*HWS student co-authors)

62. Russo, J.E.;* Faulkner, G.V.;* Pelkey, E.T. Investigation into the Friedel-Crafts alkylation of Indoles with Simple Furanones and Pyrrolinones. *Abstracts of Papers*, ACS National Meeting, San Diego, CA (Virtual); American Chemical Society: Washington, D.C., **April 2021**; ORGN 3555231 (Virtual Poster).
61. Filkorn, M.M.;* Patel, R.R.;* Sockett, K.A.;* Thrall, J.E.;* Bruno, M.E.;* Boyer, B.E.;* Ferrier, N.A.;* McFadden, M.A.;* Pelkey, E.T. Exploration of the Ambident Reactivity of Heterocyclic Enaminones. 46th National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Bloomington, IN, **June 2019** (Poster).
60. Sockett, K.A.;* Patel, R.R.;* Webster, N.R.;* McFadden, M.A.;* Kwansare, D.O.;* Lafferty, M.M.;* Neerukonda, N.;* Hursyz, B.;* Mowery, P.; Pelkey, E.T. Synthesis and Biological Evaluation of Indole-Substituted Furanones and Pyrrolinones. 46th National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Bloomington, IN, **June 2019** (Poster).
59. Sockett, K.A.;* Patel, R.R.;* McFadden, M.A.;* Lafferty, M.M.;* Hursyz, B.;* Hermann, A.;* Mowery, P.; Pelkey, E.T. Progress Towards the Synthesis and Biological Evaluation of Novel Staurosporinone Analogs. 64th Undergraduate Research Symposium-ACS Rochester Section (RIT) Rochester, NY, **April 2019** (Poster).
58. Thrall, J.E.;* Bruno, M.J.;* Pelkey, E.T. Synthesis and indolylation reactions of 3-pyridinyl-substituted tetrone acids. 4th Undergraduate Research Symposium-ACS Rochester Section (RIT) Rochester, NY, **April 2019** (Poster).
57. Ferrier, N.A.;* Boyer, B.E.;* Sockett, K.A.; Thrall, J.E.; Pelkey, E.T. Discovery of novel pyridinylation reaction involving enaminones. 64th Undergraduate Research Symposium-ACS Rochester Section (RIT) Rochester, NY, **April 2019** (Poster).
56. Hursyz, B.;* McFadden, M.A.;* Pelkey, E.T.; Mowery, P. Assessing anti-cancer potential of novel furanone-containing staurosporine analogs. ASBMB 2019 Annual Meeting, Orlando, FL, **April 2019** (Poster).

55. *McFadden, M.A.; *Melvin, S.J.; *Thrall, J.E.; *Webster, N.R.; Pelkey, E.T. Synthesis and Reactions of 3-Aryltetronic Acids. 63rd Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport) Brockport, NY, **April 2018** (Poster).
54. *Neerukonda, N.D.; *Lafferty, M.M.; *Banales Mejia, F.; Pelkey, E.T.; Mowery, P. Biological Evaluation of Simplified Analogs of Protein Kinase C Inhibitor Staurosporine. ASBMB 2017 Annual Meeting, Chicago, IL, **April 2017** (Poster).
53. *Truax, N.J.; Pelkey, E.T. Lewis Acid Mediated Indolylolation of Tetramic and Tetronic Acids. 61st Undergraduate Research Symposium-ACS Rochester Section (St. John Fisher College), Rochester, NY, **April 2016** (Oral Presentation).
52. *Banales Mejia, F.; Pelkey, E.T. Synthesis of Indole-substituted 3-Pyrrolin-2-ones from Tetramic Acids. 61st Undergraduate Research Symposium-ACS Rochester Section (St. John Fisher College), Rochester, NY, **April 2016** (Poster Presentation).
51. Pelkey, E.T.; Mowery, P.; *Rolph, C.E.; *Neerukonda, N.; *Truax, N.J.; *Kean, M.H.; *Franceschi, C.L.; *Banales Mejia, F.; *Kwansare, D.O.; *Lafferty, M.M. Synthesis and Biological Evaluation of Aryl-substituted 3-Pyrrolin-2-ones, Benzo[a]carbazoles, and Indolo[2,3-a]carbazoles. 44th National Organic Symposium (American Chemical Society-Division of Organic Chemistry), College Park, MD, **June 2015** (Poster).
50. *Truax, N.J.; *Banales Mejia, F.; *Kwansare, D.O.; *Lafferty, M.M.; *Kean, M.H.; Pelkey, E.T. Synthesis of Indolyl-substituted 3-Pyrrolin-2-ones from Tetramic Acids. 44th National Organic Symposium (American Chemical Society-Division of Organic Chemistry), College Park, MD, **June 2015** (Poster).
49. *Kean, M.J.; Pelkey, E.T. Styding a Lewis-Acid Indolylolation Reaction Using an Aliquot Approach. 60th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Geneseo), Geneseo, NY, **April 2015** (Oral Presentation).
48. *Truax, N.J.; Pelkey, E.T. Boron-Mediated Arylation of 3-Aryltetramic Acids. 60th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Geneseo), Geneseo, NY, **April 2015** (Oral Presentation).
47. *Banales Mejia, F.; *Truax, N.J.; *Kean, M.H.; Pelkey, E.T. Arylation of Tetramic Acid and their Sulfonates. 60th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Geneseo), Geneseo, NY, **April 2015** (Poster).
46. *Rolph, C.E.; Pelkey, E.T.; Mowery, P. Biological Evaluation of Simplified Analogs on Protein Kinase C Inhibitor Staurosporine. ASBMB 2015 Annual Meeting, Boston, MA, **March 2015** (Poster).
45. Mowery, P.; Pelkey, E.T. Biological Evaluation of Structurally Simplified Staurosporine Analogs on Protein Kinase C Inhibition. ASBMB 2015 Annual Meeting, Boston, MA, **March 2015** (Poster).

44. *Rolph, C.E.; Mowery, P.; Pelkey, E.T. Synthesis and Biological Evaluation of Simplified Analogs of Staurosporinone. 7th Western New York ACS Undergraduate Research Symposium, University of Buffalo (NY), **April 2014** (Oral Presentation).
43. *van Loon, A.A.; *Holton, M.K.; *Rolph, C.E.; *Downey, C.R.; *White, T.M.; *Bruening, S.R.; *Li, G.; Pelkey, E.T. Synthesis of Dibenzo[e.g]isoindol-1-ones via Oxidative Cyclization of 3,4-Diaryl-3-Pyrrolin-ones. 43rd National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Seattle, WA, **June 2013** (Poster).
42. *Holton, M.K.; *van Loon, A.A.; *Rolph, C.E.; *Downey, C.R.; *White, T.M.; Pelkey, E.T. Regiocontrolled Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones. 43rd National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Seattle, WA, **June 2013** (Poster).
41. *Downey, C.R.; Pelkey, E.T. Synthesis and Oxidative Cyclization of 3,4-Diaryl-3-pyrrolin-2-ones. 6th Western New York ACS Undergraduate Research Symposium, Niagara University (NY), **April 2013** (Oral Presentation).
40. *van Loon, A.A.; *White, T.M.; *Downey, C.R.; *Holton, M.K.; Pelkey, E.T. Regiocontrolled Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones. 6th Western New York ACS Undergraduate Research Symposium, Niagara University (NY), **April 2013** (Poster).
39. *Bruening, S.R.; *Li, G.; *White, T.M.; *Downey, C.R.; *van Loon, A.A.; *Holton, M.K.; Pelkey, E.T. Oxidative Cyclization of 3,4-Diaryl-3-pyrrolin-2-ones. 6th Western New York ACS Undergraduate Research Symposium, Niagara University (NY), **April 2013** (Poster).
38. *Greger, J.G.; *Bechtold, N.R.; *Flewelling, S.A.; *Downey, C.R.; *Yoon-Miller, S.J.P.; Pelkey, E.T. Novel Synthesis of Bis-Indole Heterocycles Including Staurosporinone. 42nd National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Princeton, NJ, **June 2011** (Poster).
37. *Greger, J.G.; Pelkey, E.T. Progress Towards the Synthesis of Staurosporinone, an Indole-Substituted 3-Pyrrolin-2-one. 56th Undergraduate Research Symposium-ACS Rochester Section (University of Rochester), Rochester, NY, **April 2011** (Oral Presentation).
36. *Bechtold, N.R.; *Flewelling, S.A.; *Downey, C.R.; *Greger, J.G.; *Yoon-Miller, S.J.P.; Pelkey, E.T. Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones Utilizing Pyrrole Weinreb Amide Precursors. 56th Undergraduate Research Symposium-ACS Rochester Section (University of Rochester), Rochester, NY, **April 2011** (Poster).
35. *Greger, J.G.; Pelkey, E.T. Novel Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones Including Staurosporinone Analogs. 2011 National Conference on Undergraduation Research, Ithaca, NY, **March 2011** (Oral Presentation).
34. *MacDonald, J.P.; *Greger, J.G.; Pelkey, E.T. Convergent Method Towards Thiophene-Substituted 3-pyrrolin-2-ones. 41st American Chemical Society-Middle Atlantic Regional Meeting, Wilmington, DE, **April 2010** (Poster).

33. *Greger, J.G.; *MacDonald, J.P.; Pelkey, E.T. Synthetic Approach to Staurosporinone Utilizing Pyrrole Weinreb Amides. 41st American Chemical Society-Middle Atlantic Regional Meeting, Wilmington, DE, **April 2010** (Poster).
32. *Degan, D.M.; Pelkey, E.T. Investigating a Tandem Cyclization-coupling Reaction between *o*-Ethynylbenzoic Acids with *p*-Iodoanisole as Part of an Approach to the Aristolactam Alkaloids. 41st American Chemical Society-Middle Atlantic Regional Meeting, Wilmington, DE, **April 2010** (Poster).
31. *Greger, J.G.; *Yoon-Miller, S.J.P.; *MacDonald, J.P.; Pelkey, E.T. Synthesis of Unsymmetrical and Symmetrical 3,4-Diaryl-3-pyrrolin-2-ones Utilizing Pyrrole Weinreb Amides. 41st National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Boulder, CO, **June 2009** (Poster).
30. *Moore, C.A.; Pelkey, E.T.; *Ohman, B.F.; *Degan, D.M. Stereoselective Synthesis of 3-Arylidene Isobenzofuran-1-ones and Approach to the Aristolactam Alkaloids. 41st National Organic Symposium (American Chemical Society-Division of Organic Chemistry), Boulder, CO, **June 2009** (Poster).
29. *Greger, J.G.; *Yoon-Miller, S.J.P.; *MacDonald, J.P.; Pelkey, E.T. Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones from Pyrrole Weinreb Amides. 54th Undergraduate Research Symposium-ACS Rochester Section (St. John Fisher College), Rochester, NY, **April 2009** (Poster).
28. *Fitzgerald, B.M.; *Moore, C.A.; Pelkey, E.T. Preparation of 2-Ethynylbenzoic Acids for use as Building Blocks in Alkaloid Synthesis. 54th Undergraduate Research Symposium-ACS Rochester Section (St. John Fisher College), Rochester, NY, **April 2009** (Poster).
27. *Green, M.C.; *Yoon-Miller, S.J.; *Greger, J.G.; Pelkey, E.T. Preparation of 3,4-Diarylpyrrole Weinreb Amides for use as precursors to 3,4-Diaryl-3-pyrrolin-2-ones. 54th Undergraduate Research Symposium-ACS Rochester Section (St. John Fisher College), Rochester, NY, **April 2009** (Poster).
26. *Yoon-Miller, S.J.P.; *Dorward, K.M.; *White, K.P.; *Opalka, S.M.; Pelkey, E.T. Developing New Synthetic Methodology for the Synthesis of Biologically Active Heterocycles. Council of Undergraduate Research Posters on the Hill, Washington, D.C., **April 2008** (Poster).
25. *Yoon-Miller, S.J.P.; *Dorward, K.M.; *White, K.P.; *Opalka, S.M.; Pelkey, E.T. Developing New Synthetic Methodology for the Synthesis of Biologically Active Heterocycles. Northeast Regional Sigma Xi Conference, Ithaca, NY (Cornell), **April 2008** (Poster).
24. *Yoon-Miller, S.J.P.; *Dorward, K.M.; Pelkey, E.T. Synthesis and Reactions of 3,4-Diaryl-3-pyrrolin-2-ones. *Abstracts of Papers*, 234th ACS National Meeting, Boston, MA; American Chemical Society: Washington, D.C., **August 2007**; ORGN 787 (Poster).
23. *Voellinger, Kailey B.; *Moore, C.A.; *Ohman, B.F.; Pelkey, E.T. Exploring the Stereochemical Outcome (*E/Z*) of Tandem Metal-mediated Reactions leading to 3-Arylidene Isobenzofuran-1-ones. *Abstracts of Papers*, 234th ACS National Meeting, Boston, MA; American Chemical Society: Washington, D.C., **August 2007**; ORGN 535 (Poster).

22. *White, K.P.; *Yoon-Miller, S.J.P.; Pelkey, E.T. Synthesis and Reactions of 4-Aryl-3-pyrrolin-2-ones. *Abstracts of Papers*, 234th ACS National Meeting, Boston, MA; American Chemical Society: Washington, D.C., **August 2007**; CHED 329 (Poster).
21. *Yoon-Miller, S.J.P.; *Opalka, S.M.; Pelkey, E.T. Synthesis and Reactions of 4-Tosyloxy-3-pyrrolin-2-ones. 52nd Undergraduate Research Symposium-ACS Rochester Section (RIT), Rochester, NY, **April 2007** (Poster).
20. *Dorward, K.M.; *Guthrie, N.J.; *Cahill, T.J.; Pelkey, E.T. Synthesis of the *N*-H Lactam Analogue of Vioxx. 52nd Undergraduate Research Symposium-ACS Rochester Section (RIT), Rochester, NY, **April 2007** (Poster).
19. *Coffin, A.R.; *Dorward, K.M.; *Guthrie, N.J.; *Lavender, H.K.; *Opalka, S.M.; *Roberts, S.E.; *Roussell, M.A.; *Tserlin, E.; Pelkey, E.T. Developing Regioselective Approaches to 3-Pyrrolin-2-ones. CU-Roche Symposium, Boulder, CO, **June 2006** (Poster).
18. *Ohman, B.F.; *Garman, M.J.; *Liquori, M.E.; *DePersis, M.J.; Pelkey, E.T. Progress Toward the Synthesis of the Aristolactam Alkaloids. CU-Roche Symposium, Boulder, CO, **June 2006** (Poster).
17. *Opalka, S.M.; Pelkey, E.T. Synthesis and Reactions of 3,4-Dibromo-3-pyrrolin-2-ones. 51st Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Rochester, NY, **April 2006** (Poster).
16. *Garman, M.J.; *Liquori, M.E.; *Ohman, B.F.; *DePersis, M.J.; Pelkey, E.T. Palladium-Mediated Approach to Isobenzofuranones and Isoindolinones. 51st Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Rochester, NY, **April 2006** (Poster).
15. Pelkey, E.T.; *Garman, M.J.; *Liquori, M.E.; *Ohman, B.F. Synthetic Approach to Aristolactam Natural Products Utilizing Palladium-Mediated Tandem Reactions. 20th International Conference of Heterocyclic Chemistry, Palermo, Italy, **August 2005** (Oral Presentation).
14. *Cohen, E.A.; *Coffin, A.R.; *Roussell, M.A.; Pelkey, E.T. Synthetic Approach to Truncated Analogs of Staurosporinone (K-252c). *Abstracts of Papers*, 228th ACS National Meeting, Philadelphia, PA; American Chemical Society: Washington, D.C., **August 2004**; CHED 191 (Poster).
13. *Garman, M.J.; *Liquori, M.E.; Pelkey, E.T. Metal-Mediated Approach to the Aristolactam Alkaloids. *Abstracts of Papers*, 228th ACS National Meeting, Philadelphia, PA; American Chemical Society: Washington, D.C., **August 2004**; CHED 177 (Poster).
12. *Guthrie, N.J.; *Cohen, E.A.; *Roberts, S.E.; *Tserlin, E.; Pelkey, E.T. Synthesis of 3-Pyrrolin-2-one Analogs of Vioxx. *Abstracts of Papers*, 228th ACS National Meeting, Philadelphia, PA; American Chemical Society: Washington, D.C., **August 2004**; CHED 187 (Poster).

11. *Liquori, M.E.; *Rodriguez, E.R.; Pelkey, E.T. Preparation and Reactions of *N*-Methyl-*N*-phenyl- α -isocyanoacetamide. *Abstracts of Papers*, 228th ACS National Meeting, Philadelphia, PA; American Chemical Society: Washington, D.C., **August 2004**; CHED 178 (Poster).
10. *Lanious, A.N.; Pelkey, E.T. Synthetic Approach to 2-Ketopyrroles from Pyrrole Weinreb Amides. 49th Undergraduate Research Symposium-ACS Rochester Section (Roberts Wesleyan), Rochester, NY, **April 2004** (Poster).
9. *Coffin, A.R.; Pelkey, E.T. Regiocontrolled Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones. 48th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Brockport, NY, **April 2003** (Oral Presentation).
8. *Tserlin, E.; Pelkey, E.T. Regiocontrolled Synthesis of 3,4-Dialkyl-3-pyrrolin-2-ones. 48th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Brockport, NY, **April 2003** (Oral Presentation).
7. *Rodriguez, E.R.; Pelkey, E.T. Synthesis and Reactions of *N*-Methyl-*N*-phenylisocyanoacetamides. 48th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Brockport, NY, **April 2003** (Poster).
6. *Apanovitch, E.K.; Pelkey, E.T. Synthetic Approach to N-Aryllactam Analogs of Vioxx. 48th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Brockport, NY, **April 2003** (Poster).
5. *Huelgas, R.M.; Pelkey, E.T. Synthetic Approach to Lactam Analogs of Vioxx. 48th Undergraduate Research Symposium-ACS Rochester Section (SUNY-Brockport), Brockport, NY, **April 2003** (Poster).
4. *Coffin, A.R.; Pelkey, E.T. New Synthetic Approach to Staurosporinone. *Abstracts of Papers*, 224th ACS National Meeting, Boston, MA; American Chemical Society: Washington, D.C., **August 2002**; CHED 198 (Poster).
3. *Roussell, M.A.; Pelkey, E.T. Regiocontrolled Synthesis of 3-Pyrrolin-2-ones. *Abstracts of Papers*, 224th ACS National Meeting, Boston, MA; American Chemical Society: Washington, D.C., **August 2002**; CHED 200 (Poster).
2. *Tserlin, E.; Pelkey, E.T. Synthesis of Pyrrole Weinreb Amides. *Abstracts of Papers*, 224th ACS National Meeting, Boston, MA; American Chemical Society: Washington, D.C., **August 2002**; CHED 215 (Poster).
1. *Coffin, A.R.; Pelkey, E.T. Synthesis and Reactions of Pyrrole Weinreb Amides. 47th Undergraduate Research Symposium-ACS Rochester Section (Hobart and William Smith Colleges), Geneva, NY, **April 2002** (Poster).

INVITED LECTURES

- | | | |
|-----|------------------|-------------------|
| 11. | Cortland State | April 2019 |
| 10. | Houghton College | April 2019 |

9.	Rochester Institute of Technology	April 2016
8.	Allegheny College	April 2014
7.	Syracuse University	September 2013
6.	42 nd Annual NSF Workshop on Synthesis (Dedham, MA)	June 2012
5.	SUNY-Potsdam	October 2011
4.	St. Norbert College	October 2009
3.	Colgate University	September 2009
2.	University of Richmond	November 2008
1.	Dartmouth College	May 2008

HONORS THESES (ADVISED)

15.	Kaitlynn Sockett (William Smith '20)	2019 – 2020
14.	Sophia Melvin (William Smith '18)	2017 – 2018
13.	Fernando Banales Mejia (Hobart '17)	2016 – 2017
12.	Nathanyal Truax (Hobart '17)	2016 – 2017
11.	Deborah Kwansare (William Smith '16F)	2016 (Spring – Fall)
10.	Maeve H. Kean (William Smith '15)	2014 – 2015
9.	Catherine M. Downey (William Smith '13)	2012 – 2013
8.	Jessica G. Greger (William Smith '11)	2009 – 2010
7.	Sarah J.P. Yoon-Miller (William Smith '09)	2008 – 2009
6.	Matthew J. Garman (Hobart '06)	2005 – 2006
5.	Nicolette J. Guthrie (William Smith '05)	2004 – 2005
4.	Michael E. Liquori (Hobart '05)	2004 – 2005
3.	Michael A. Rousell (Hobart '04)	2003 – 2004
2.	Elina Tserlin (William Smith '04)	2003 – 2004
1.	Aaron R. Coffin (Hobart '04)	2003 – 2004

UNDERGRADUATE RESEARCH STUDENTS

67.	Taylor Coburn (William Smith '23) "Synthesis and Reaction of Tetrionic Acid Derivatives"	September 2021 - present
66.	Rebecca Huss (William Smith '22) "Synthesis and Reaction of Tetrionic Acid Derivatives"	January 2021 - present
65.	Christina Mitrow (William Smith '22) "Synthesis and Reaction of Tetrionic Acid Derivatives"	January 2021 - present
64.	John Canniff (Hobart '22) "Total Synthesis of Indole Natural Products"	January 2021 - May 2021
63.	Spencer Tretter (Hobart '21) "Synthesis and Reactions of Aniline-substituted Butyrolactones"	August 2020 – Dec 2020
62.	Jack Russo (Hobart '22) "Total Synthesis of Indole Natural Products"	August 2020 – present

61. Blake Evans (Hobart '22) **January 2020 – present**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
60. Grace Faulkner (William Smith '22) **September 2019 – present**
“Total Synthesis of Indole Natural Products”
59. Molly S. Dexter (William Smith '21) **September 2019 – Dec 2020**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
58. Maddie A. Filkorn (William Smith '21) **May 2019 – Dec 2020**
“Synthesis and Reactions of Heterocyclic Enaminones”
57. Nicholas A. Ferrier (Hobart '19) **January 2019 – May 2019**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
56. Mike J. Bruno (Hobart '19) **January 2019 – May 2019**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
55. Allie J. Seminer (William Smith '20) **August 2018 – May 2020**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
54. Brooke E. Boyer (William Smith '20) **August 2018 – May 2020**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
53. Kaitlynn A. Sockett (William Smith '20) **June 2018 – May 2020**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
52. Roslyn R. Patel (William Smith '20) **June 2018 – May 2020**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
51. Jonathan E. Thrall (Hobart '19) **Jan 2018 – May 2019**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
50. Nate R. Webster (Hobart '19) **May 2017 – May 2019**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
49. Marissa A. McFadden (William Smith '19) **May 2017 – May 2019**
“Synthesis and Reactions of Tetrionic Acid Derivatives”
48. Sophia J. Melvin (William Smith '18) **May 2016 – May 2018**
“Synthesis and Reactions of Tetramic and Tetrionic Acid Derivatives”
47. James E. Lees (Hobart '16) **January 2016 – May 2016**
“Investigating the Scholl Oxidative Cyclization”
46. Megan M. Lafferty (William Smith '18) **May 2015 – December 2017**
“Synthesis and Reactions of Tetramic Acid Derivatives”

45. Deborah O. Kwansare (William Smith '16F)
"Synthesis and Reactions of Tetramic Acid Derivatives" **May 2015 – Dec 2016**
44. Fernando Banales Mejia (Hobart '17)
"Synthesis and Reactions of Tetramic Acid Derivatives" **January 2015 – May 2017**
43. Nathanyal J. Truax (Hobart '17)
"Synthesis and Reactions of Tetramic Acid Derivatives" **May 2014 – May 2017**
42. Courtney L. Franceschi (William Smith '16)
"Synthesis and Reactions of Tetramic Acid Derivatives" **May 2014 – July 2014**
41. Katherine M. Delaney (William Smith '14)
"Synthesis and Reactions of Tetramic Acid Derivatives" **August 2013 – Dec 2013**
40. Carly E. Rolph (William Smith '15)
"Synthesis and Reactions of Tetramic Acid Derivatives" **March 2013 – May 2015**
39. Guanqun Li (Hobart '14)
"Synthesis and Reactions of Tetramic Acid Derivatives" **January 2013 – May 2013**
38. Maeve H. Kean (William Smith '15)
"Synthesis and Reactions of Tetramic Acid Derivatives" **June 2012 – May 2015**
37. Amy A. van Loon (William Smith '14)
"Synthesis and Reactions of Tetramic Acid Derivatives" **Jan 2012 – Dec 2013**
36. Stephen R. Bruening (Hobart '13)
"Synthesis of Nitrophenanthrenes"
"Synthesis and Reactions of Tetramic Acid Derivatives" **Aug 2011 – May 2013**
35. Taryn M. White (William Smith '13)
"Synthesis and Reactions of Tetramic Acid Derivatives" **May 2011 – May 2013**
34. Catherine R. Downey (William Smith '13)
"Synthesis and Reactions of Tetramic Acid Derivatives"
"Synthesis and Reactions of Pyrrole Weinreb Amides" **Jan 2011 – May 2013**
33. Yuhan Xun (Hobart '13)
"Synthesis and Reactions of Pyrrole Weinreb Amides" **Aug 2010 – Dec 2010**
32. Deepak Vallabhaneni (Hobart '13)
"Synthesis and Reactions of Pyrrole Weinreb Amides" **Aug 2010 – Mar 2011**
31. Scott A. Flewelling (Hobart '12)
"Synthesis and Reactions of Pyrrole Weinreb Amides" **May 2010 – Dec 2011**
30. Nathan R. Bechtold (Hobart '12) **Jan 2010 – Dec 2011**

- “Synthesis and Reactions of Pyrrole Weinreb Amides”
“Synthesis of Nitrophenanthrenes”
29. Jacob P. MacDonald (Hobart '10) **Mar 2009 – May 2010**
“Synthesis and Reactions of Pyrrole Weinreb Amides”
28. David M. Degan (Hobart '10) **Mar 2009 – May 2010**
“Synthetic Approach to the Aristolactam Alkaloids”
27. Brian A. Fitzgerald (Hobart '09) **Jan 2009 – May 2009**
“Synthetic Approach to the Aristolactam Alkaloids”
26. Jessica G. Greger (William Smith '11) **Jan 2008 – May 2011**
“Synthesis and Reactions of Pyrrole Weinreb Amides”
25. Malory C. Green (William Smith '09) **Aug 2007 – May 2009**
“Synthesis and Reactions of Tetramic Acid Derivatives”
24. Christian A. Moore (Hobart '09) **Jun 2007 – May 2009**
“Synthetic Approach to the Aristolactam Alkaloids”
23. Kimberly P. White (William Smith '09) **May 2007 – Jul 2007**
“Synthesis and Reactions of Tetramic Acid Derivatives”
22. Kailey B. Voellinger (William Smith '08) **May 2007 – Dec 2007**
“Synthetic Approach to the Aristolactam Alkaloids”
21. Thomas A. Cahill (Hobart '09) **Aug 2006 – Dec 2006**
“Synthesis of 3-Phenyltetramic Acid”
20. Sarah J.P. Yoon-Miller (William Smith '09) **Jun 2006 – May 2009**
“Synthesis and Reactions of Pyrrole Weinreb Amides”
“Synthesis and Reactions of Tetramic Acid Derivatives”
19. Michael J. DePersis (Hobart '07) **Jan 2006 – May 2007**
“Synthetic Approach to the Aristolactam Alkaloids”
18. Kathryn M. Dorward (William Smith '07) **Jun 2005 – May 2007**
“Synthesis of 3-Pyrrolin-2-one Analogs of Vioxx”
17. Brian F. Ohman (Hobart '07) **Jun 2005 – May 2007**
“Synthetic Approach to the Aristolactam Alkaloids”
16. Suzanne M. Opalka (William Smith '06) **Jun 2005 – May 2006**
“Synthesis and Reactions of Tetramic Acid Derivatives”
15. Armand J. Buzantian (Hobart '05) **Aug 2004 – Dec 2004**
“Synthesis and Reactions of Arylnitromethanes”

14. Matthew J. Garman (Hobart '06) **Jun 2004 – May 2006**
“Novel Synthetic Approach to the Aristolactam Alkaloids”
13. Gabrielle Kalin (William Smith '04) **Jan 2004 – May 2004**
“Synthetic Approach to β -Bromo- β -nitrostyrene”
12. Sarah E. Roberts (William Smith '04) **Aug 2003 – May 2004**
“Synthesis of Vioxx Analogues”
11. Eric A. Cohen (Hobart '05) **Aug 2003 – May 2005**
“Synthesis and Reactions of Nitroalkenes”
10. Nicolette J. Guthrie (William Smith '05) **Jun 2003 – May 2005**
“Synthesis of 3,4-Diaryl-3-pyrrolin-2-ones from Tetramic Acids”
9. Adam N. Lanious (Hobart '04) **Jun 2003 – May 2004**
“Synthesis and Reactions of α -Isocyanoketones”
8. Michael E. Liquori (Hobart '05) **Jun 2003 – May 2005**
“Synthesis and Reactions of *N*-Methyl-*N*-phenylisocyanoacetamide”
“Novel Synthetic Approach to the Aristolactam Alkaloids”
7. R. Margarita Huelgas (William Smith '03) **Jan 2003 – May 2003**
“Synthesis of Benzyl Sulphones”
6. Emmanuel R. Rodriguez (Hobart '04) **Jan 2003 – May 2003**
“Synthesis and Reactions of *N*-Methyl-*N*-phenylisocyanoacetamide”
5. Eryn K. Apanovitch (William Smith '03) **Aug 2002 – Dec 2002**
“Synthetic Approach to a Lactam Analogue of Vioxx”
4. Heather K. Lavender (William Smith '03) **Aug 2002 – Dec 2002**
“Synthetic Approach to a Lactam Analogue of Vioxx”
3. Michael A. Roussell (Hobart '04) **May 2002 – May 2004**
“Synthetic Approach to Asymmetrical Analogues of Staurosporinone”
2. Elina Tserlin (William Smith '04) **May 2002 – May 2004**
“Synthesis of 3,4-Dialkyl-3-pyrrolin-2-ones”
1. Aaron R. Coffin (Hobart '04) **Jan 2002 – May 2004**
“New Synthetic Approach to Staurosporinone”

SELECTED COMMUNITY SERVICE

- Faculty Athletic Fellow, Hobart Soccer, **2010 – present**

- Health Professions Advisory Committee (HPAC), **2002 – present**
- HWS Posse 2 Mentor (Posse-Los Angeles), **2014 – 2018**
- STEM Scholar Faculty Mentor, **2017 – 2018**
- Strategic Diversity Plan Committee, **2016 – 2017**
- Committee on Tenure and Promotion (COTAP), **2009 – 2012, 2016 – 2018**
Chair, **2016 – 2018**
- Committee on the Faculty (COFAC), **2006 – 2007**
- Committee on Standards (COS), **2005 – 2006**
- COAA Sub-Committee: Committee on Athletics (COA), **2010 – 2012**
Chair, **2011 – 2012**