

Thomas Andrew Shell

Vita

CONTACT INFORMATION:

Department of Chemistry and Physics
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EDUCATION:

Ph.D., Chemistry, 2005, Emory University, Atlanta, GA
Dissertation title: *DNA Cleavage by Complexes of the Type CpML_nR and Their Application to Studying DNA-protein Interactions*

B.S., Chemistry, Intermediate Honors (equivalent of magna cum laude), 2001, University of Richmond, Richmond, VA

B.S., Biology, Intermediate Honors (equivalent of magna cum laude), 2001, University of Richmond, Richmond, VA

EMPLOYMENT HISTORY AND RESPONSIBILITIES:

August 2024	Associate Professor , Lincoln Memorial University, Harrogate, TN
2021 – Present	Assistant Professor , Lincoln Memorial University, Harrogate, TN <i>Teaching:</i> General Chemistry I, General Chemistry I Laboratory, General Chemistry II, General Chemistry II Laboratory, Organic Chemistry I, Organic Chemistry I Laboratory, Organic Chemistry II Laboratory, Medicinal Chemistry, Revising organic chemistry laboratory courses <i>Research:</i> Mentored 11 undergraduate students on research projects, Development of undergraduate virtual laboratory exercises, Wrote peer-reviewed publications <i>Service:</i> Chemistry Faculty Position Search Committee (2024), Strategic Planning Committee (2024), NextGen Departmental Scholarship Committee (2024), Faculty Senate member (2022 – present), Chair of Scholarly Activities Subcommittee of the Faculty Senate (2022 – present), Organic Chemistry Laboratory Coordinator (2022 -present), Co-advisor for Chemistry Club (2023 – present), Authored Laboratory Manual of virtual laboratory exercises for teaching Organic Chemistry II
2017 – 2021	Assistant Professor , Norwich University, Northfield, VT <i>Teaching:</i> Organic Chemistry I with Laboratory, Organic Chemistry II with Laboratory, Chemical Synthesis and Examination, Served as the Organic Chemistry Laboratory coordinator <i>Service:</i> Ad-hoc Professional Development Committee (2019-2020), Faculty Library Committee (2019-2021), Pre-Health advisory Committee (2018-

2021), College of Science and Mathematics Larsen Science Lecture and College Seminar Series Committee (2017-2021), Faculty Advisor for the Norwich University Student Chapter of the American Chemical Society (2017-2021, **ACS Outstanding award 2019, ACS Honorable Mention award 2018, ACS Honorable Mention award 2017**)

Research: Mentored 7 undergraduate students on research projects that explored the use of Vitamin B₁₂-derivatives for the light-responsive delivery of drugs; wrote grants and peer-reviewed publications

Program Revision: Developed a complete online Organic Chemistry II course and created a new online laboratory curriculum utilizing Beyond Labz, which was necessitated by Norwich University being fully online Spring 2021 due to the COVID pandemic

2014 – 2017

Assistant Professor, Saint Anselm College, Manchester, NH

Teaching: General Chemistry I with Laboratory, General Chemistry II with Laboratory, Organic Chemistry I with Laboratory, Organic Chemistry II with Laboratory, Bioorganic Chemistry, Chemical Biology, Research and Seminar, Served as the General Chemistry Laboratory coordinator

Service: Bean Lecturer Committee (2016-2017), Environmental Stewardship Committee (2016-2017), Showcasing Our Arts and Research Committee (2015-2017), Safety Committee (2015-2016), Faculty Advisor for the Saint Anselm College Student Chapter of the American Chemical Society (2016-2017)

Research: Mentored 6 undergraduate students on research projects that explored the use of Vitamin B₁₂-derivatives for the light-responsive delivery of drugs; wrote grants and peer-reviewed publications

Program Revision: Developed a Chemical Biology course that was new to the college. This fulfilled the American Chemical Society's (ACS) requirement of a Biochemistry course within the Chemistry Department to be certified by the ACS.

2013 – 2014

Research Assistant Professor, UNC Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC

Performed research in the field of Chemical Biology

Wrote grants and peer-reviewed publications

Mentored graduate and undergraduate research students

2008 – 2013

Postdoctoral Research Associate, UNC Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC

Research Advisor: David S. Lawrence

Performed research in the field of Chemical Biology

Wrote grants and peer-reviewed publications

Mentored graduate and undergraduate research students

2007 – 2008

Assistant Professor, West Virginia State University, Institute, WV
Organic Chemistry I with Laboratory, Organic Chemistry II with Laboratory, Elementary Organic Chemistry and Biochemistry with Laboratory, Consumer Chemistry with Laboratory, Computer Chemistry, Served as the Organic Chemistry Laboratory coordinator

Service: General Education Committee (2007-2008)

Research: Mentored 3 undergraduate students on a research project that Investigated the microwave-assisted organic synthesis of

- N*-phenylsuccinimides and *N*-phenylmaleimide; wrote grants and peer reviewed publications
- 2006 – 2007 **Visiting Assistant Professor**, Franklin and Marshall College, Lancaster, PA
Teaching: General Chemistry I with Laboratory, Organic Chemistry II with Laboratory
Research: Research the synthesis and analysis of bronchantite and posnjakite for a General Chemistry Laboratory exercise
- 2001 – 2005 **Graduate Research Assistant and Teaching Assistant**, Emory University, Atlanta, GA
Research Advisor: Debra L. Mohler
Research: Research focused on synthesis and analysis of organometallic complexes that generate carbon-centered radicals upon photolysis for studying the structure of DNA-protein complexes; mentored undergraduate students; wrote peer-reviewed publications
Teaching: Teaching assistant for Organic chemistry I Laboratory, Organic Chemistry II Laboratory and Biochemistry I Lecture
- 1999 – 2001 **Undergraduate Research Assistant**, University of Richmond, Richmond, VA
Research Advisor: Stuart C. Clough
Researched the synthesis of pyrroles from vinylogous iminium salts
- 1998 – 2001 **Laboratory Assistant**, University of Richmond, Richmond, VA
Helped instructors teach General Chemistry I Laboratory, General Chemistry II Laboratory, Organic Chemistry I Laboratory, Organic Chemistry II Laboratory, and Organismal Biology I Laboratory
- 2000 **Research Intern**, Denmark International Study Program, University of Iceland, Reykjavik, Iceland
Researched the selection of nesting sites by the North Atlantic puffin

PROFESSIONAL and SCHOLARLY ORGANIZATIONS:

- 2023 – Present Member, Tennessee Academy of Science
- 2018 – Present Member, Sigma Xi Scientific Research Honor Society
- 2018 – 2020 Member, International Photodynamic Association
- 2017 – 2021 Member, Council of Undergraduate Research
- 2011 – Present Associate Member of Faculty of 1000
- 2008 – Present American Chemical Society
- 2000 – 2001 American Chemical Society Student Affiliates, University of Richmond, Treasurer
- 1999 – Present Gamma Sigma Epsilon, Epsilon Beta chapter, National Chemistry Honor Society
- 1999 – Present Beta Beta Beta, Beta Theta chapter, National Biology Academic Honor Society
- 1998 – Present Golden Key National Honor Society
- 1997 – Present Phi Eta Sigma, Freshman Honor Society

PROFESSIONAL MEETINGS ATTENDED:

Blue Ridge Undergraduate Research Conference, Elizabethton, TN, April 11, 2024.

Southeastern Regional Meeting of the American Chemical Society, Durham, NC, October 25-28, 2023.

Appalachian College Association Annual Summit, Knoxville, TN, September 21-22, 2023.

Blue Ridge Undergraduate Research Conference, Bristol, TN, April 14, 2023.

Appalachian College Association Annual Summit, Pigeon Forge, TN, September 22-23, 2022.

Northeast Regional IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 14-16, 2019.

International Photodynamic Association World Congress, Boston, MA June 28-July 4, 2019.

Dartmouth Dreyfus Symposium on Organic Chemistry, Hanover, NH, May 11, 2019.

Council of Undergraduate Research Posters on the Hill, Washington, D.C., April 29-30, 2019.

National Conference of Undergraduate Research, Kennesaw, GA, April 10-13, 2019.

American Chemical Society National Meeting, Orlando, FL, March 31-April 4, 2019.

American Chemical Society National Meeting, Boston, MA, August 19-23, 2018.

New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 13-14, 2018.

Northeast Regional IDeA Conference, Burlington, VT, August 16-18, 2017.

New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 13-15, 2017.

Northeast Regional Meeting of the American Chemical Society, Binghamton, NY, October 5-8, 2016.

New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 14-15, 2016.

American Chemical Society National Meeting, Boston, MA, August 16-20, 2015.

New Hampshire IDeA Network for Biomedical Research Excellence, New Castle, NH, August 6-7, 2015.

Southeastern Regional Meeting of the American Chemical Society, Raleigh, NC, November 14-17, 2012.

Southeastern Regional Meeting of the American Chemical Society, Charleston, SC, November 13-16, 2002.

SE/SW Regional American Chemical Society Meeting, New Orleans, LA, December 6 - 8, 2000.

Virginia Chapter American Chemical Society Meeting, Virginia Commonwealth University, Richmond, VA, December 5, 2000.

HONORS and AWARDS:

2023 Second Place QEP Exemplary Transparent Instruction Faculty Award for 2022-23 year

2023 Recognized at LMU Lincoln Awards Ceremony for dedication to educating student-athletes for 2022-23 year

- 2020 Norwich University Award for Excellence in Research
- 2019 Norwich University Award for Excellence in Research
- 2018 Norwich University Award for Excellence in Research
- 2003 Boehringer Ingelheim Fellow
- 2001 American Institute of Chemists Award

Certifications:

- 2023 Appalachian College Association Teaching and Leadership Institute Teaching Track Certification
- 2011 University of North Carolina Chapel Hill Training Initiative in Biomedical and Biological Sciences Teaching Certification

GRANTS and CONTRACTS:

- 2020 Vermont Biomedical Research Network (VBRN) Project Research Award, \$75,000
- 2019 Vermont Genetics Network (VGN) Project Research Award, \$75,000
- 2018 Norwich University Research Expenses Grant, \$2500
- 2018 Vermont Genetics Network (VGN) Project Research Award, \$75,000
- 2018 Norwich University Research Expenses Grant, \$2500
- 2015 New Hampshire IDeA Network for Biomedical Research Excellence (NH-INBRE) Pilot Project Research Grant, \$158,884
- 2008 West Virginia Established Program to Stimulate Competitive Research (WV-EPSCoR) Instrumentation Award, \$20,000
- 2008 NASA West Virginia Space Grant Consortium (WVSGC) Research Enhancement Award, \$1,160

Funded awards for mentored research students:

1. Hannah L. Cure,¹ Appalachian College Association Ledford Scholar, Summer 2024
2. Joshua A. Boldon,¹ Appalachian College Association Ledford Scholar, Summer 2023
3. Avery K. Kretschmar,² New Hampshire IDeA Network for Biomedical Research Excellence Summer Undergraduate Research Fellowship at Dartmouth College (iSURF), Summer 2020
4. Halee N. Lair,² Vermont Genetics Network Undergraduate Student Research Scholar, Summer 2019
5. Shawnae T. Evans,² Norwich University Summer Research Fellowship, Summer 2019
6. Gracie Dominguez,² Norwich University Research Apprentice Grant, Spring 2019
7. Colter G. Sheveland,² American Chemical Society Green Mountain Local Section Travel Award, 2019
8. Colter G. Sheveland,² Norwich University College of Science and Mathematics Board of Fellows Research award, 2018
9. Colter G. Sheveland,² Norwich University Weintz Research Scholar award, Summer 2018
10. Dillon C. Zites,² Norwich University Summer Research Fellowship, Summer 2018
11. Mallory J. Dutil,² Vermont Genetics Network Undergraduate Student Research Scholar, Summer 2018
12. Amelia C. McCue,³ NESACS/NSYCC-GDCh/JCF Exchange Program and the JCF Frühjahrssymposium Travel Award, Travel to Mainz, Germany and accommodations in Mainz, Germany for 8 days, Spring 2017
13. -17. Amelia C. McCue,³ New Hampshire IDeA Network for Biomedical Research Excellence (NH-INBRE) Grant, Summer 2015, Fall 2015, Spring 2016, Summer 2016, Fall 2016, Spring 2017

18. -20. Emerald-Denis Karic,³ New Hampshire IDeA Network for Biomedical Research Excellence (NH-INBRE) Grant, Summer 2016, Fall 2016, Spring 2017
21. Amelia C. McCue,³ NIH, NIGMS National IDeA Symposium of Biomedical Research, NIH, NIGMS National IDeA Symposium of Biomedical Research Travel Award, Travel to Washington D.C. and accommodations in Washington, D.C., June 26-28, 2016.
22. Catherine I. Muldoon, New Hampshire IDeA Network for Biomedical Research Excellence (NH-INBRE) Grant, Summer 2016
23. -25. Whitney M. Moreau,³ New Hampshire IDeA Network for Biomedical Research Excellence (NH-INBRE) Grant, Summer 2015, Fall 2015, Spring 2016
26. Kathleen A. Poole,⁴ West Virginia IDeA Network for Biomedical Research Excellence (WV-INBRE) Grant, Spring 2008, Summer 2008

PUBLICATIONS:

Peer-reviewed publications

Articles:

1. Gendron, L. N.³; Sheveland C. G.²; Gunn, J. R.; Pogue, B. W. **Shell, T. A.**; Shell, J. R. Radiation-Activated Cobalamin-Kinase Inhibitors for Treatment of Pancreatic Ductal Adenocarcinoma. *Mol. Pharmaceutics*, **2024**, *21*, 137-141.
2. Gendron, L. N.³; Shell J. R.; **Shell T. A.** Light-Mediated Double-stranded DNA Cleavage by a Dicobalamin Complex. *J. Photochem. Photobiol.*, **2023**, *18*, 100209.
3. Boldon, J. A.¹; **Shell, T. A.** Physicochemical properties and cytochromes P-450 kinetics of a trifluoroacetamido derivative of acetaminophen. *Results Chem.*, **2023**, *6*, 101129. *Part of Special Issue: Bioorganic Chemistry and Drug Discovery.*
4. Boldon, J. A.¹; **Shell, T. A.** Physicochemical properties of acedoben and its trifluoroacetamido derivative. *Results Chem.*, **2023**, *6*, 101075.
5. Gendron, L. N.³; Zites, D. C.²; LaRochelle, E. P. M.; Gunn, J. R.; Pogue, B. W.; **Shell, T. A.**; Shell, J. R. Tumor targeting vitamin B12 derivatives for X-ray induced treatment of pancreatic adenocarcinoma. *Photodiagnosis Photodyn. Ther.* **2020**, *30*, 101367.
6. McCue, A. C.³; Moreau, W. M.³; **Shell, T. A.** Visible-Light Mediated Radical DNA Cleavage by Alkylcobalamins. *Photochem. Photobiol.*, **2018**, *94*, 545-551.
7. Rodgers, Z. L.⁵; **Shell, T. A.**; Brugh, A. M.; Nowotarski, H. L.⁵; Forbes, M. D. E.; Lawrence, D. S. Fluorophore Assisted Photolysis of Thiolato-Cob(III)alamins. *Inorg. Chem.*, **2016**, *55*, 1962-1969.
8. **Shell, T. A.**; Lawrence, D. S. Vitamin B₁₂: A Tunable, Long Wavelength, Light-Responsive Platform for Launching Therapeutic Agents. *Acc. Chem. Res.*, **2015**, *48*, 2866-2874.
9. **Shell, T. A.**; Shell, J. R.; Rodgers, Z. L.⁵; Lawrence, D. S. Tunable Optomolecular Control of Visible- and Near IR-Responsive Bioactive Compounds. *Angew. Chem. Int. Ed.*, 2014, *53*, 875-878. *Designated as a very important paper (VIP).*
10. Priestman, M. A.; **Shell, T. A.**; Sun, L.; Lee, H.-M.; Lawrence, D. S. Merging of Confocal and Caging Technologies: Selective Three Color Communication with Profluorescent Reporters. *Angew. Chem. Int. Ed.* 2012, *51*, 7684-7687.

11. **Shell, T. A.**; Lawrence, D. S. A New Trick (Hydroxyl Radical Generation) for an Old Vitamin (B12). *J. Am. Chem. Soc.*, **2011**, *133*, 2148-2150. (highlighted in *Angew. Chem. Int. Ed.* "More Radical Magic with B₁₂: B₁₂-Catalyzed, Light-Induced Cleavage of DNA" 2011, *50*, 979.)
12. **Shell, T. A.**; Shell, J. R.; Poole, K. A.⁴; Guetzloff, T. F. Microwave-assisted Synthesis of *N*-Phenylsuccinimide. *J. Chem. Ed.* **2011**, *88*, 1439-1441.
13. **Shell, T. A.**; Mohler, D. L. Hydrolytic DNA Cleavage by Non-lanthanide Metal Complexes. *Curr. Org. Chem.*, **2007**, *11*, 1525-1542.
14. **Shell, T. A.**; Glass, J. E.; Mackey, M. A.; Layman, K. A.; Mohler, D. L. Formal DNA Hydrolysis by Mono- and Dinuclear Iron Complexes. *Inorg. Chem.*, **2007**, *46*, 8120-8122.
15. **Shell, T. A.**; Mohler, D. L. The Hydrogen Peroxide Induced Enhancement of DNA Cleavage in the Ambient Light Photolysis of CpFe(CO)₂Ph: a Potential Strategy for Targeting Cancer Cells. *Bioorg. Med. Chem. Lett.* **2005**, *15*, 4585-4588.
16. Mohler, D. L.; **Shell, T. A.** Selective Targeting of DNA for Cleavage within DNA-histone Assemblies by a Spermine-[CpW(CO)₃Ph]₂ Conjugate. *Org. Biomol. Chem.* **2005**, *3*, 3091-3093.

Conference Papers:

1. Shell, J. R.; **Shell, T. A.**; Pogue, B. W.; Gendron, L. N.³; Colter Sheveland, C. G.² Tumor targeting vitamin B12 derivatives for x-ray activated chemotherapy. *Proc. SPIE 11070*, 17th International Photodynamic Association World Congress, 110705G (14 August 2019).
2. **Shell, T. A.** Shell, J. R.; Sheveland, C. G.²; Zites, D. C.² Near infrared light-mediated delivery of anticancer agents. *Proc. SPIE 11070*, 17th International Photodynamic Association World Congress, 110703K (14 August 2019).
3. Shell, J. R.; Gendron, L. N.³; Zites, D. C.²; **Shell, T. A.**; Pogue, B. W. Light-activated Vitamin B12 Derivatives as Theranostic Agents. *Proc. SPIE 10862*, Molecular-Guided Surgery: Molecules, Devices, and Applications V, 108620M (4 March 2019).

Other publications

Patent:

Lawrence D. L.; **Shell, T.** Photo-responsive compounds. Patent number US Application Serial Number 14/779,387, September 23, 2015.

Lawrence D. L.; **Shell, T.** Photo-responsive compounds. Patent number WO 2014168950, October 16, 2014.

Laboratory Manual:

Shell, T. A. (1 February 2023) *Shell Organic Chemistry II Laboratory Manual*. Beyond Labz. <https://gibbs.beyondlabz.com/activities>.

Professional Presentations

Oral Presentations:

1. **Shell, T. A.** Physicochemical properties of trifluoroacetamido derivatives of acetaminophen and acedoben, UNC Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, October 26, 2023.

2. **Shell, T. A.**; Shell, J. R.; Sheveland, G. G.²; Zites, D. C.² Near Infrared Light-Mediated Delivery of Anticancer Agents, International Photodynamic Association World Congress, Cambridge MA June 28-July 4, 2019.
3. **Shell, T. A.** Photopharmaceutical Therapy. Larsen Science Lecture Series, Norwich University, Northfield, VT, February 15, 2018.
4. **Shell, T. A.** Light-activatable Anticancer Agents. External Advisory Committee Meeting of New Hampshire IDeA Network for Biomedical Research Excellence, Manchester, NH, October 29, 2016.
5. **Shell, T. A.** Light-Sensitive Compounds for Studying and Controlling Biological Systems. Department of Biology, New England College, Henniker, NH, February 23, 2016.
6. **Shell, T. A.** Light-activatable Anticancer Agents. External Advisory Committee Meeting of New Hampshire IDeA Network for Biomedical Research Excellence, November 7, 2015.

Peer-reviewed Poster Presentations:

1. **Shell, T. A.**; Lawrence, D. S. Southeastern Regional Meeting of the American Chemical Society, Raleigh, NC, November 14-17, 2012.
2. **Shell, T. A.**; Mohler, D. L. Southeastern Regional Meeting of the American Chemical Society, Charleston, SC, November 13-16, 2002.
3. Gupton, J.; Clough, S.; Kashnikow, E.; **Shell, T.**; Cox, C.; Hickenboth, C.; Krumpke, K.; Burnham, B.; Holt, H.; Webb, T.; Boucher, M.; Hines, I.; Hall, I.; Warren, A.; Barnes, C.; Henry, J. Virginia Chapter American Chemical Society meeting, Virginia Commonwealth University, Richmond, VA, December 5, 2000.
4. Gupton, J.; Clough, S.; Kashnikow, E.; **Shell, T.**; Cox, C.; Hickenboth, C.; Krumpke, K.; Burnham, B.; Holt, H.; Webb, T.; Boucher, M.; Hines, I.; Hall, I.; Warren, A.; Barnes, C.; Henry, J. SE/SW Regional American Chemical Society Meeting, New Orleans, LA, December 6 - 8, 2000.

Other Presentations:

1. Shell, J. R.; Gendron, L. N.³; Zites, D. C.²; **Shell, T.A.**; Pogue B. W. SPIE Photonics West, San Francisco, CA, February 2-7, 2019.
2. Lawrence, D. S.; Hughes, R. M.; Rodgers, Z. L.⁵; Ding, S.; Oien, N. P.; O'Banion, C. P.; Priestman, M. A.; Marvin; C. M., Smith, W. J.⁵; **Shell, T. A.** American Chemical Society National Meeting, San Francisco, CA, April 2, 2017. ("Holy Grails of Chemistry" session)
3. **Shell, T. A.**; Lawrence, D. L. Biotechnology Industry Organization International Convention, San Diego, CA, June 23-26, 2014.
4. Gupton, J.; Clough, S.; Kashnikow, E.; **Shell, T.**; Cox, C.; Hickenboth, C.; Krumpke, K.; Burnham, B.; Holt, H.; Webb, T.; Boucher, M.; Hines, I.; Hall, I.; Warren, A.; Barnes, C.; Henry, J. Gordon Conference of Heterocyclic Compounds, Salve Regina University, Newport, RI, July 9 - 14, 2000.

Student Oral Presentations:

1. Boldon, J. A. **Shell, T. A.** Synthesis and physicochemical properties of the trifluoroacetamido derivative of acedoben. Eastern Tennessee Collegiate Division Meeting of the Tennessee

Academy of Science, Morristown, TN, April 15, 2024. (first place undergraduate oral presentation award)

2. Boldon, J. A.¹; **Shell, T. A.** Synthesis and physiochemical properties of a trifluoroacetamido derivative of acetaminophen. Lincoln Memorial University Research Day, Harrogate, TN April 12, 2024. (undergraduate oral presentation award)
3. Boldon, J. A.¹; **Shell, T. A.** Synthesis and physiochemical properties of a trifluoroacetamido derivative of acetaminophen. Blue Ridge Undergraduate Research Conference, Elizabethton, TN April 11, 202.
4. Gendron, L. N.³; **Shell, T.A.**; Shell, J. R. Light-activated drug-vitamin B12 conjugates for the treatment of pancreatic cancer. New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 13-14, 2019.
5. McCue, A. C.³; **Shell, T. A.** Utility of Alkylcobalamins for Photo-responsive Biological Applications. Northeast Regional Meeting of the American Chemical Society, Binghamton, NY, October 5-8, 2016.
6. McCue, A. C.³; **Shell, T. A.** Alkylcobalamins: Phototherapy for Localized Drug Activity. New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 14-15, 2016.

Peer-reviewed Student Poster Presentations:

1. Boldon, J. A.¹; **Shell, T. A.** Tennessee Academy of Sciences Annual Meeting, Memphis, TN, November 18, 2023. (second place undergraduate student poster presentation)
2. Boldon, J. A.¹; **Shell, T. A.** Southeastern Regional Meeting of the American Chemical Society, Durham, NC, October 25-28, 2023.
3. Evans, S. T.²; Lair, H. N.²; **Shell, T. A.** Council of Undergraduate Research Posters on the Hill, Washington, D.C. April 21, 2020.
4. Lair, H. N.²; Zites, D. C.²; Dominguez, G.²; Shell, J. R.; **Shell, T. A.** American Chemical Society National Meeting, Philadelphia, PA March 23-26, 2020.
5. Evans; S. T.²; **Shell, T. A.**; Shell, J. R. American Chemical Society National Meeting, Philadelphia, PA, March 23-26, 2020.
6. Evans, S. T.²; Pogue, B. W.; **Shell, T. A.**; Shell, J. R. Northeast Regional IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, Aug 14-16, 2019.
7. Gendron, L. N.³; Sheveland, C. G.²; Shell; J. R.; **Shell, T. A.** Northeast Regional IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, Aug 14-16, 2019.
8. Lair, H. N.²; Dominguez, G.²; Shell; J. R. **Shell, T. A.** Northeast Regional IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, Aug 14-16, 2019.
9. Zites, D. C.²; **Shell, T. A.** Council of Undergraduate Research Posters on the Hill, Washington, D.C., April 29-30, 2019.
10. Sheveland, C. G.²; Gendron, L. N.³; Shell, J. R.; **Shell, T. A.** National Conference of Undergraduate Research, Kennesaw, GA, April 10-13, 2019.
11. Gendron, L. N.³; McCue, A. C.³; Zites, D. C.²; **Shell, T. A.** American Chemical Society National Meeting, Orlando, FL. March 31-April 4, 2019.

12. Gendron, L. N.³; Sheveland, C. G.²; **Shell, T. A.**; Shell, J. R. American Chemical Society National Meeting, Orlando, FL, March 31-April 4, 2019.
13. Shell J. R.; **Shell T. A.**; Zites D. C.²; Pogue, B. W. World Medical Imaging Congress, Seattle, WA, September 12-15, 2018.
14. Zites, D. C.²; Pogue, B. W.; **Shell, T. A.**; Shell, J. R. American Chemical Society National Meeting, Boston, MA, August 19-23, 2018.
15. Zites, D. C.²; Sheveland, C. G.²; **Shell, T. A.** American Chemical Society National Meeting, Boston, MA, August 19-23, 2018.
16. Gendron, L. N.³; **Shell, T. A.** Northeast Regional IDeA Conference, Burlington, VT, August 16-18, 2017.
17. McCue, A. C.³; Karic, E.-D.³; Muldoon, C. I.³; Gendron, L. N.³; **Shell, T. A.** Northeast Regional IDeA Conference, Burlington, VT, August 16-18, 2017.
18. McCue, A. C.³; **Shell, T. A.** JCF-Frühjahrssymposium, Mainz, Germany, March 29-April 1, 2017.
19. Karic, E.-D.³; **Shell, T. A.** External Advisory Committee Meeting of New Hampshire IDeA Network for Biomedical Research Excellence, Manchester, NH, October 29, 2016.
20. McCue, A. C.³; Muldoon, C. I.³; Karic, E.-D.³; **Shell, T. A.** Northeast Regional Meeting of the American Chemical Society, Binghamton, NY, October 5-8, 2016.
21. McCue, A. M.³; Shell, J. R., **Shell, T. A.** Alkylcobalamins: A Platform for Light-Controlled Localization of Drug Activity. NIH, NIGMS National IDeA Symposium of Biomedical Research, Washington, D.C., June 26-28, 2016.
22. **Shell, T. A.**; Shell, J. R.; Nowotarski, H. L.⁵; Lawrence, D. S. American Chemical Society National Meeting, Boston, MA, August 16-20, 2015.
23. Moreau, W. M.³; McCue, A. C.³; Shell, J. R.; **Shell, T. A.** American Chemical Society National Meeting, Boston, MA, August 16-20, 2015.
24. Rodgers, Z. L.⁵; Hughes, R. M.; Doherty, L. M.; Brugh, A. M.; **Shell, T. A.**; Forbes, M. D. E.; Lawrence, D. S. Triangle Student Research Competition, Research Triangle Park Headquarters, Durham, NC, September 3, 2014. (Runner-up prize)
25. Rodgers, Z. L.⁵; Brugh, A. M.; Doherty, L. M.; **Shell, T. A.**; Shell, J. R.; Lawrence, D. S. The Research Triangle Park Chemical Biology and Biotechnology Symposium, GlaxoSmithKline, Research Triangle Park, NC, May 28, 2014.
26. Rodgers, Z. L.⁵; Molesky, B.; Brugh, A. M.; **Shell, T. A.**; Forbes, M. D. E.; Lawrence, D. S. Inter-American Photochemical Society Meeting, Sarasota, FL, January 2-5, 2014.
27. Poole, K. A.⁴; Guetzloff, T. F.; **Shell, T. A.**; Shell, J. R. American Chemical Society National Meeting, San Francisco, CA, March 21-25, 2010.

Nonpeer-reviewed Student Poster Presentations:

1. Akers, P. C.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN April 12, 2024.

2. Cole, P. C.¹; Martinez, B. I.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN April 12, 2024.
3. Crumley, G. A.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN April 12, 2024.
4. Kingman, M. A.¹; Morris, I. G.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN April 12, 2024.
5. Racicot, P. Y.¹; Santamaria, J.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN April 12, 2024.
6. Akers, P. C.¹; **Shell, T. A.** Blue Ridge Undergraduate Research Conference, Elizabethton, TN April 11, 2024.
7. Cole, P. C.¹; Martinez, B. I.¹; **Shell, T. A.** Blue Ridge Undergraduate Research Conference, Elizabethton, TN April 11, 2024.
8. Kingman, M. A.¹; Morris, I. G.¹; **Shell, T. A.** Blue Ridge Undergraduate Research Conference, Elizabethton, TN April 11, 2024.
9. Racicot, P. Y.¹; Santamaria, J.¹; **Shell, T. A.** Blue Ridge Undergraduate Research Conference, Elizabethton, TN April 11, 2024.
10. Boldon, J. A.¹; **Shell, T. A.** Annual McNair-Ledford Undergraduate Research Symposium, Cleveland, TN, September 29, 2023.
11. Lindell, C. R.¹; **Shell, T. A.** Blue Ridge Undergraduate Research Conference, Bristol, TN April 14, 2023.
12. Boldon, J. A.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN, April 14, 2023. (first place undergraduate student poster presentation)
13. Akers, P. C.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN, April 14, 2023. (third place undergraduate student poster presentation)
14. Lindell, C. R.¹; **Shell, T. A.** Lincoln Memorial University Research Day, Harrogate, TN, April 22, 2022. (first place undergraduate student poster presentation)
15. Hubbard, E. K.¹; **Shell, T. A.** Blue Ridge Undergraduate Research Conference, Bristol, TN, April 1, 2022.
16. Dominguez, G.²; Kretschmar, A. K.²; Shell, J. R.; **Shell, T. A.** Champlain Area Chemistry Symposium. Burlington, VT, October 11, 2019.
17. Lair, H. N.²; Dominguez, G.²; Shell, J. R.; **Shell, T. A.** Champlain Area Chemistry Symposium. Burlington, VT, October 11, 2019.
18. Evans, S. T.²; **Shell, T. A.**; Shell, J. R. Champlain Area Chemistry Symposium. Burlington, VT, October 11, 2019.
19. Lair, H. N.²; Dominguez, G.²; Shell, J. R.; **Shell, T. A.** Dartmouth Dreyfus Symposium on Organic Chemistry, Hanover, NH, May 11, 2019.
20. Lair, H. N.²; Dominguez, G.²; **Shell, T. A.** Vermont Genetics Network Career Day, South Burlington, VT, April 3, 2019.

21. Dutil, M. J.²; **Shell, T. A.** Vermont Genetics Network Career Day, South Burlington, VT, April 3, 2019.
22. Zites, D. C.²; Pogue, B. W.; **Shell, T. A.**; Shell, J. R. Norwich University Students to Scholars Symposium, Northfield, VT, December 6, 2018.
23. Zites, D. C.²; Sheveland, C. G.²; **Shell, T. A.** Norwich University Students to Scholars Symposium, Northfield, VT, December 6, 2018.
24. Gendron, L. N.³; Zites, D. C.²; Gunn, J. R.; Pogue, B. W.; **Shell, T. A.**; Shell, J. R. New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 13-14, 2018.
25. Lunde, M. L.²; **Shell, T. A.** Norwich University Student Scholarship Celebration, Northfield, VT, May 2, 2018.
26. Zites, D. C.²; McCue, A. C.³; Sheveland, C. G.²; Shell, J. R.; **Shell, T. A.** Norwich University Student Scholarship Celebration, Northfield, VT, May 2, 2018.
27. Lunde, M. L.²; **Shell, T. A.** Vermont Chapter of Sigma Xi Meeting, Colchester, VT, April 17, 2018.
28. Zites, D. C.²; McCue, A. C.³; Shell, J. R.; **Shell, T. A.** Vermont Genetics Network Career Day, South Burlington, VT, April, 11, 2018.
29. Gendron, L. N.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 13-15, 2017.
30. McCue, A. C.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 13-15, 2017.
31. McCue, A. C.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 14-15, 2016.
32. Karic, E.-D.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 14-15, 2016.
33. Muldoon, C. I.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, Bretton Woods, NH, August 14-15, 2016.
34. Moreau, W. M.³; **Shell, T. A.** Saint Anselm College Undergraduate Research Symposium, Manchester, NH, April 28, 2016.
35. Zizza, B. M.³; **Shell, T. A.** Saint Anselm College Undergraduate Research Symposium, Manchester, NH, April 28, 2016.
36. Moreau, W. M.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, New Castle, NH, August 6-7, 2015.
37. McCue, A. C.³; **Shell, T. A.** New Hampshire IDeA Network for Biomedical Research Excellence, New Castle, NH, August 6-7, 2015.
38. Smith, W. J.⁵; Oien, N. P.; Hughes, R. M.; Marvin, C. M.; Rodgers, Z. L.⁵; **Shell, T. A.**; Lawrence, D. S. International Nanomedicine & Drug Delivery Symposium, Chapel Hill, NC, October 6, 2014.

39. Guetzloff, T. F.; Goodall, R.⁴, **Shell, T. A.**; Shell, J. R.; Poole, K. A.⁴; Palmer, D.⁴ West Virginia State University Research Symposium, Institute, WV, April, 2009.
40. Poole, K. A.⁴; Palmer, D.⁴; Smith, J.⁴; Shell, J. R.; Guetzloff, T. F.; **Shell, T. A.** West Virginia State University Research Symposium, Institute, WV, April 25, 2008.
41. Palmer, D.⁴; Poole, K. A.⁴; Smith, J.⁴; Shell, J. R.; Guetzloff, T. F.; **Shell, T. A.** West Virginia State University Research Symposium, Institute, WV, April 25, 2008.

¹ Denotes Lincoln Memorial University undergraduate student

² Denotes Norwich University undergraduate student

³ Denotes Saint Anselm College undergraduate student

⁴ Denotes West Virginia State University undergraduate student

⁵ Denotes mentored University of North Carolina graduate student

COMMUNITY SERVICE

- 2023 – Present Faculty co-advisor, LMU Chemistry Club
- 06/2022 Event coordinator for demonstration and hands-on activity for students in the Appalachian STEM Academy Bridge program
- 04/2022 Judge for LMU Research Day undergraduate poster session
- 08/2018 – 05/2021 Faculty advisor, American Chemical Society, Norwich Student Chapter
Coordinated chemistry magic shows paired with ECHO, Leahy Center for Lake Champlain
Facilitated the Buddy-Up Program Outreach where chemistry demonstrations and hands-on activities were planned for K-5 students

STUDENT CHAPTER AWARDS:

American Chemical Society Outstanding Award 2019

American Chemical Society Honorable Mention Award 2018

American Chemical Society Honorable Mention award 2017

- 03/2016 Science Olympiad event coordinator, It's About Time, Saint Anselm College
- 03/2015 Science Olympiad event coordinator, It's About Time, Saint Anselm College
- 03/2015 Science Olympiad Rules Committee Member, Saint Anselm College
- 2014 – 2016 Reviewer for *Chemical Communications*
- 2012 – 2016 Reviewer for *Journal of Chemical Education*
- 2012 Reviewer for *Molecules*
- 2011 - Present Associate Member of Faculty of 1000
- 2008 - Present Reviewer for *Organic Letters*
- 03/2004 Science Olympiad event coordinator, Wright Stuff, Emory University
- 03/2003 Science Olympiad event coordinator, Polymer Detectives, Emory University

03/2002 Science Olympiad event coordinator, Polymer Detectives, Emory University

OTHER RELEVANT ITEMS

Pedagogical Training

06/2023 Appalachian College Association Teaching and Leadership Institute Teaching Track Certification

03/2021 Vermont Biomedical Research Network for Diversity, Equity, and Inclusion in College Education

08/2020 National Center for Faculty Development and Diversity Faculty Success Program

08/2020 Norwich University Online Teaching Program

12/2011 University of North Carolina Chapel Hill Training Initiative in Biomedical and Biological Sciences Teaching Certification

Other

08/2016 Grant Writers Workshop NH-INBRE Annual Meeting

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Reviewed by: _____ Date: _____

Title of reviewer: _____