

Curriculum Vitae

Stephen Bernard Chamberland

February 2018

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EDUCATION

- Ph.D. Department of Chemistry, University of California, Irvine, 2005, GPA 3.93
- B.S. Department of Chemistry, Boston College, Chestnut Hill, MA, 1999
Major: Biochemistry; Minor: Chemistry
GPA 3.59, *cum laude*, Scholar of the College

PROFESSIONAL EMPLOYMENT

- 2015–Present Assistant Professor, Department of Chemistry, Utah Valley University
- 2008–2015 Assistant Professor, Department of Chemistry, Central Washington University, Ellensburg, WA
- 2005–2008 Postdoctoral Research Fellow, Department of Chemistry, Colorado State University, Fort Collins, CO

HONORS AND AWARDS

- 2017 UVU Wolverine Achievement Award, Full-Time Faculty of the Year, one of three finalists
- 2016 Jack L. Beal Award – American Society of Pharmacognosy
- 2015 Division of Organic Chemistry Travel Award – American Chemical Society
- 2012 Professor Who Did the Most Promotion of Cancer Awareness, Department of Chemistry, Central Washington University
- 2011 Professor Most Passionate About Teaching, Department of Chemistry, Central Washington University

PEER-REVIEWED PUBLICATIONS

(*indicates undergraduate student coauthor, † denotes PI, ‡ designates external collaborator)

INDEPENDENT CAREER - MENTORED RESEARCH

- 2018 *Davenport, M. E.; *Dickson, J. A.; *Johnson, M. R. † Chamberland, S.
Total Synthesis of Clavatadine B. *manuscript in preparation*
- 2016 Malmberg, C. E.; † Chamberland, S. A direct, early stage guanidinylation protocol for the synthesis of complex aminoguanidine-containing natural products. *J. Vis. Exp.* **2016**, 115, e53593, DOI: [10.3791/53593](https://doi.org/10.3791/53593)
- 2015 *Conn, S. J.; *Vreeland, S. M.; *Wexler, A. N.; ‡ Pouwer, R. H.; ‡ Quinn, R. J.; † Chamberland, S. Total Synthesis of Clavatadine A. *J. Nat. Prod.* **2015**, 78, 120-124. DOI: [10.1021/np500772u](https://doi.org/10.1021/np500772u)
- Addition/Correction: J. Nat. Prod.* **2015**, 78, 344.
DOI: [10.1021/acs.jnatprod.5b00084](https://doi.org/10.1021/acs.jnatprod.5b00084)

(Recognized with the 2016 Jack L. Beal Award from the American Society of Pharmacognosy)

- 2013 *Buchanan, J. C.; *Petersen, B. P.; † Chamberland, S. Concise Total Synthesis of Phidianidine A and B. *Tetrahedron Lett.* **2013**, 54, 6002-6004. DOI: [10.1016/j.tetlet.2013.08.063](https://doi.org/10.1016/j.tetlet.2013.08.063)

PRIOR TO INDEPENDENT CAREER

- 2009 Chamberland, S.; ‡ Grüşchow, S.; †, ‡ Sherman, D. H.; † Williams, R. M. Synthesis of Potential Early-Stage Intermediates in the Biosynthesis of FR900482 and Mitomycin C. *Org. Lett.* **2009**, 11, 791-794. DOI: [10.1021/ol802631c](https://doi.org/10.1021/ol802631c)
- 2007 Namiki, H. N.; Chamberland, S.; Gubler, D. A.; † Williams, R. M. Synthetic and Biosynthetic Studies of FR900482 and Mitomycin C: An Efficient and Stereoselective Hydroxymethylation of an Advanced Benzazocane Intermediate. *Org. Lett.* **2007**, 9, 5341-5344. DOI: [10.1021/ol701960v](https://doi.org/10.1021/ol701960v)
- 2005 Chamberland, S.; § Ziller, J. W.; † Woerpel, K. A. Structural Evidence that Alkoxy Substituents Adopt Electronically Preferred Pseudoaxial Orientations in Six-Membered Ring Dioxocarbenium Ions. *J. Am. Chem. Soc.* **2005**, 127, 5322-5323. DOI: [10.1021/ja050830i](https://doi.org/10.1021/ja050830i) § X-ray crystallographer
- 2004 Chamberland, S.; † Woerpel, K. A. Using Nucleophilic Substitution Reactions to Understand How a Remote Alkyl or Alkoxy Substituent Influences the Conformation

of Eight-Membered Ring Oxocarbenium Ions. *Org. Lett.* **2004**, *6*, 4739–4741.
DOI: [10.1021/ol047998d](https://doi.org/10.1021/ol047998d)

1999 †Kelly, T. R.; *Chamberland, S.; Silva, R. A. Total Synthesis of Luotonin A.
Tetrahedron Lett. **1999**, *40*, 2723–2724. DOI: [10.1016/S0040-4039\(99\)00349-4](https://doi.org/10.1016/S0040-4039(99)00349-4)

GRANT FUNDING

- 2018 Utah Valley University, College of Science, Scholarly Activities Committee (SAC) Travel Grant for SC and 11 chemistry undergraduates to attend the Spring 2018 American Chemical Society National Meeting in New Orleans, LA, Co-PI with Matt Horn and Ming Yu, \$18,000 (funded)
- 2017 National Institutes of Health, “Natural-product based, reversible factor XIa inhibitors,” R-15 Academic Research Enhancement Award (AREA) Program, \$368,681 (not funded)
- 2017 Utah Valley University, “Does herbicide persistence negatively affect water and sediment quality in Utah Lake?” Grants for Engaged Learning (GEL), Co-PI with Dr. Eddy Cadet (UVU Earth Science), GEL Seed Grant, \$10,000 (funded)
- 2017 Utah Valley University, College of Science and Health, Scholarly Activities Committee (SAC) Research Grant, \$5,000 (funded)
- 2016 National Science Foundation, “Synthesis and Testing of Clavatadine A Analogues for Reversible Factor XIa Inhibition,” Faculty Early Career (CAREER) Award Program, \$697,498 (not funded)
- 2016 Utah Valley University, College of Science and Health, SAC Research Grant, \$5,000 (funded)
- 2015 American Chemical Society Division of Organic Chemistry, Travel Award for Faculty at Undergraduate Institutions, \$600
- 2013 National Science Foundation, “Rational Design of a Natural-Product Based Inhibitor of Human Blood Coagulation Factor XIa,” Faculty Early Career (CAREER) Award Program, \$642,980 (not funded)
- 2013 American Heart Association (AHA), “Synthesis and Testing of a New Class of Blood Coagulation Factor XIa Inhibitors Based on Clavatadine A,” AHA Western States Affiliate Beginning Grant-in-Aid, \$140,000 (not funded)
- 2013 Central Washington University, Graduate Studies and Research, SOAR Grant, \$8,500 (funded)

- 2013 Central Washington University, Graduate Studies and Research, SEED Grant, \$2,000 (funded)
- 2013 Central Washington University Foundation, American Association of University Professors (AAUP) travel grant, \$1,000 (funded)
- 2013 Central Washington University, Graduate Studies and Research, Faculty Research Appointment – one quarter of full-time research leave (awarded)
- 2012 Central Washington University, College of the Sciences, Faculty summer scholarly writing grant, \$3,000 (funded)

INVITED PRESENTATIONS

- 2017 “Undergraduate-driven total synthesis of bioactive marine natural products using early-stage guanidinylation.” Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT, February 2
- 2015 “Direct, early stage guanidinylation as an enabling strategy for the total synthesis of bioactive marine natural products.” †**Chamberland, S.** 250th American Chemical Society National Meeting, Boston, MA, United States, invited oral presentation, Small Splash, Big Waves: Research at Primarily Undergraduate Institutions Symposium, ORGN-70, August 16-20.
- 2014 “Total Chemical Synthesis of Terminal Guanidine Containing Marine Natural Products.” Department of Chemistry, Washington State University, Pullman, WA, September 15
- 2014 “Total Chemical Synthesis of Terminal Guanidine Containing Marine Natural Products.” Department of Chemistry, Whitworth University, Spokane, WA, April 30

MENTORED RESEARCH PRESENTATIONS (*indicates undergraduate student coauthor, designates PI, presenter(s) in **bold**)

- 2018 Total synthesis of clavatadine B by direct, early stage guanidinylation. ***Davenport, M. E.;** ***Dickson, J. A.;** ***Johnson, M. R.;** †Chamberland, S. 255th American Chemical Society National Meeting, New Orleans, LA, United States, poster presentation, ORGN-741, scheduled to take place March 18-22. Selected for Sci-Mix.
- 2017 Progress toward the total synthesis of clavatadine B. ***Davenport, M. E.;** †Chamberland, S. 2017 American Chemical Society Northwest Regional Meeting, Oregon State University, Corvallis, OR, United States, poster presentation, NORM-2754005, June 25-28.

- 2015 Total synthesis of clavatadine A analogues to produce a viable reversible inhibitor for factor XIa. **Malmberg, C. E.**; †Chamberland, S. 20th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), oral presentation, afternoon oral session #24, May 21.
- 2015 Total synthesis of clavatadine A analogues to produce a viable reversible inhibitor for factor XIa. **Malmberg, C. E.**; †Chamberland, S. 249th American Chemical Society National Meeting, Denver, CO, United States, poster presentation, MEDI-85, March 22-26. Selected for Sci-Mix.
- 2014 Total synthesis of terminal guanidine containing marine natural products. *Buchanan, J. C.; Conn, S. J.; *Petersen, B. P.; Vreeland, S. M.; Wexler, A. N.; †**Chamberland, S.** 2014 American Chemical Society Northwest Regional Meeting, University of Montana, Missoula, United States, oral presentation, NORM-134, June 22-25.
- 2014 Concise Total Synthesis of Phidianidine A and B. ***Buchanan, J. C.**; *Petersen, B. P.; †Chamberland, S. 19th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), morning poster session, Poster #15, May 15.
- 2014 The Dibromination of Homogentisic Acid Lactone. ***Bouchey, S.**; ***Calaway, A.**; ***Maverick, R.**; †Chamberland, S. 19th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), morning poster session, Poster #16, May 15.
- 2014 Progress Toward the Total Synthesis of Credneramide A and B. ***O'Neal, K.**; †Chamberland, S. 19th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), morning poster session, Poster #17, May 15.
- 2014 The Dibromination of Homogentisic Acid Lactone. *Bouchey, S.; ***Calaway, A.**; ***Maverick, R.**; †Chamberland, S. 2014 American Chemical Society Puget Sound Section Undergraduate Research Symposium, Western Washington University, Bellingham, WA, United States, poster presentation, A3, May 3.
- 2014 Total Synthesis of Phidianidine A and B. ***Buchanan, J. C.**; *Petersen, B. P.; †Chamberland, S. 247th American Chemical Society National Meeting, Dallas, TX, United States, poster presentation, ORGN-714, March 16-20. Selected for Sci-Mix.
- 2013 Synthesis of Phidianidine A and B. ***Petersen, B. P.**; ***Buchanan, J. C.**; †Chamberland, S. 18th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), morning poster session, Poster #43, May 16.

- 2013 Towards the Total Synthesis of 5-Bromo-8-methoxy-1-methyl- β -carboline as a Potential Anti-leukemic Agent. ***Frazier, K. L.**; ***Creasy, R.**; †Chamberland, S. 18th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), morning poster session, Poster #44, May 16.
- 2012 Studies toward the total synthesis of clavatadine A. ***Conn, S. J.**; *Vreeland, S. M.; *Wexler, A. N.; †Chamberland, S. 17th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), oral presentation, afternoon oral session #28, May 17.
- 2012 Studies toward the total synthesis of clavatadine A. ***Conn, S. J.**; *Vreeland, S. M.; *Wexler, A. N.; †Chamberland, S. 243rd American Chemical Society National Meeting, San Diego, CA, United States, poster presentation, ORGN-240, March 25-29.
- 2011 Total Synthesis of Clavatadine A: a Potential Anticoagulant Compound. ***Conn, S. J.**; *Vreeland, S. M.; *Wexler, A. N.; †Chamberland, S. 12th Regional Conference on Undergraduate Research of the Murdock College Science Research Program, Seattle University, Seattle, WA, United States, poster presentation, November 11-12.
- 2011 Studies Toward the Total Synthesis of 5-Bromo-8-methoxy-1-methyl- β -carboline. ***Tenney, A.**; †Chamberland, S. 16th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), poster presentation, Poster #2, May 19.
- 2010 Synthesis of Clavatadine A. ***Vreeland, S. M.**; †Chamberland, S. 15th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), poster presentation, May 20.
- 2010 Synthesis of Glionitrin A: A Potential Antibiotic and Anticancer Compound. ***Conn, S. J.**; ***Wexler, A. N.**; †Chamberland, S. 15th Annual Central Washington University Symposium on University Research and Creative Expression (SOURCE), poster presentation, May 20.
- 2010 Studies Toward the Total Synthesis of Glionitrin A: A Potential Antibiotic and Anticancer Compound. ***Conn, S. J.**; ***Wexler, A. N.**; †Chamberland, S. 2010 American Chemical Society Puget Sound Section Undergraduate Research Symposium, Central Washington University, Ellensburg, WA, United States, poster presentation, Poster #1, May 1.
- 2010 Studies Toward the Total Synthesis of Clavatadine A. ***Vreeland, S. M.**; †Chamberland, S. 2010 American Chemical Society Puget Sound Section

Undergraduate Research Symposium, Central Washington University, Ellensburg, WA, United States, poster presentation, Poster #18, May 1.

CONFERENCE PRESENTATIONS AND ACTIVITY (*indicates undergraduate student coauthor, †designates PI, presenter(s) in **bold**)

- 2018 Will attend 255th American Chemical Society National Meeting, New Orleans, LA, United States, scheduled to take place March 18-22.
- 2017 Attended American Society of Pharmacognosy Annual Meeting, Portland, OR, United States, July 29-August 2.
- 2017 Infusing the undergraduate curriculum with hands-on, inquiry-based learning. **Slezak, C.; Chamberland, S.; Hungerford, H.; Yu, M.** 1st Annual Intermountain Teaching for Learning Conference, Orem, UT, United States, oral presentation, Session 3 (March 30), March 30-31.
- 2015 Direct, early stage guanidinylation as an enabling strategy for the total synthesis of bioactive marine natural products. † **Chamberland, S.** 250th American Chemical Society National Meeting, Boston, MA, United States, invited oral presentation, Small Splash, Big Waves: Research at Primarily Undergraduate Institutions Symposium, ORGN-70, August 16-20.
- 2013 Application of a straightforward approach to incorporate terminal guanidines in natural product total synthesis. † **Chamberland, S.** 246th American Chemical Society National Meeting, Indianapolis, IN, United States, poster presentation, AEI-68, September 8-12.
- 2012 Natural product synthesis at a primarily undergraduate institution: Two case studies. † **Chamberland, S.** 244th American Chemical Society National Meeting, Philadelphia, PA, United States, oral presentation, ORGN-57, August 19-23.
- 2012 Natural product synthesis at a primarily undergraduate institution: Two case studies. † **Chamberland, S.** 61st Gordon Research Conference on Natural Products, Andover, NH, United States, poster presentation, July 22-27.
- 2008 Attended 236th American Chemical Society National Meeting, Philadelphia, PA, United States, August 17-21.
- 2007 Preparation of complex putative early- and late-stage intermediates in mitomycin and FR-900482 biosynthesis. **Chamberland, S.;** † Williams, R. M.; Sherman, D. H.

234th American Chemical Society National Meeting, Boston, MA, United States, poster presentation, BIOL-073, August 19-23.

- 2007 Preparation of complex putative early- and late-stage intermediates in mitomycin and FR-900482 biosynthesis. **Chamberland, S.**; †Williams, R. M.; Sherman, D. H. 8th Winter Conference on Medicinal and Bioorganic Chemistry, Steamboat Springs, CO, United States, poster presentation, Poster #3, January 21-25.
- 2004 Synthesis and nucleophilic substitution reactions of eight-membered ring oxocarbenium ion precursors containing a remote alkyl or alkoxy substituent. †Woerpel, K. A.; **Chamberland, S.** 227th American Chemical Society National Meeting, Anaheim, CA, United States, oral presentation, ORGN-020, March 28-April 1.

TEACHING EXPERIENCE

F = fall quarter/semester; W = winter quarter; S = spring quarter/semester; Sum = summer

Utah Valley University, Sole Instructor of Record

CHEM 2310 – Organic Chemistry I (F15, S16, F16, S17, F17, Sum18)
CHEM 2320 – Organic Chemistry II (F15, S16, Sum16, F16, S18)
CHEM 4920 – Chemistry Capstone I (F16, F17)
CHEM 4930 – Chemistry Capstone II (S17, S18)
CHEM 4940 – Chemistry Capstone III (S17, S18)
CHEM 495R – Undergraduate Research in Chemistry (S17, F17, S18)

Central Washington University, Sole Instructor of Record

Organic Chemistry I (F08, F09, F10, F12, W13, F14)
Organic Chemistry II (W09, W10, W11, W12, S13, W14)
Organic Chemistry III (S09, S10, S11, S12, S14, S15)
Organic Chemistry Laboratory I (15 times since F08, most recent W15)
Organic Chemistry Laboratory II (9 times since S08, most recent S15)
Introductory Organic Chemistry (W11, W12)
Introductory Organic Chemistry Laboratory (W11, W12, W13, W15)
General Chemistry Laboratory III (S13)
Chemistry Senior Seminar (F14)
Organic Reaction Mechanisms (graduate) (S14)
Organic Synthesis I (graduate) (S09)
Thesis Research (graduate) (F13-S15)
Thesis Preparation (graduate) (W15-S15)

Colorado State University, Chemistry Department Professional Tutor

Provided one-on-one and group instruction for the following undergraduate courses:
Fundamentals of Organic Chemistry, Modern Organic Chemistry I/II, and Organic Chemistry I/II

University of California, Irvine, Teaching Assistant

Organic Chemistry Lab I/II (F99, W00, S00, S01)
General Chemistry Lab II (F01)
Organic Chemistry I (W01)

Departmental Teaching Awards, Central Washington University

- 2012 Professor Who Did the Most Promotion of Cancer Awareness, Department of Chemistry, Central Washington University
- 2011 Professor Most Passionate About Teaching, Department of Chemistry, Central Washington University

M.S. THESIS COMMITTEE MEMBERSHIP

- 2015 M.S. Chemistry, chair
- 2010 M.S. Chemistry, associate

PROFESSIONAL LEADERSHIP AND SERVICE

Regional/National Level

- 2016-Present Created and maintained the site organiclinksPUI.net. Based upon the organiclinks.net website that lists organic chemistry research groups at U.S. Ph.D.-granting institutions, organiclinksPUI.net aims to connect faculty and students at Primarily Undergraduate Institutions (PUIs) to promote collaboration and to facilitate the search for reviewers from peer institutions for grant proposals and scholarly work.
- 2009–2010 Chair/Organizer, American Chemical Society Puget Sound Section Undergraduate Research Symposium, Central Washington University, Ellensburg, WA, May 1, 2010

Reviewed manuscripts submitted to the following journals:

- 2017 *Journal of the Utah Academy of Sciences, Arts, and Letters* (1 manuscript)
- 2014-2016 *Journal of Natural Products* (3 manuscripts)

- 2013 *Journal of Chemical Education* (2 manuscripts)
- 2007 *Organic Letters* (1 manuscript), *Tetrahedron* (1 manuscript)
- 2006 *European Journal of Organic Chemistry* (1 manuscript)

Reviewed funding proposals submitted to the following agencies:

- 2017 *American Chemical Society Petroleum Research Fund* (1 proposal)

College/University Level

- Fall 2017 Member, Supplemental Instruction Coordinator Search Committee
- Spring 2017 Volunteered to have students throw whipped cream pies in my face during Academic Tutoring's Studypalooza event, 1 hour
- 2016-Present Member, Academic Tutoring Advisory Committee
- Spring 2016 Member, Faculty Excellence Award Selection Committee
- Spring 2016 Conducted training session for 10-15 chemistry tutors, Academic Tutoring Center
- Spring 2016 Volunteered to have students throw whipped cream pies in my face during the UVU Chemistry Club's Pie Your Professor fund-raising event, 1 hour
- 2013–2014 Senator, Faculty Senate
- 2012–2014 Member, Faculty Senate General Education Committee
- 2012–2013 Member, Library Advisory Board
- 2012 Faculty Presenter, "Making the Grade: A Faculty View"; 4 summer orientation sessions
- 2012 Academic Advisor, Freshman Summer Orientation
- 2012 Session Chair and Session Judge, Symposium for Undergraduate Research and Creative Expression

Department Level

- 2017–Present Chair, Biochemistry Tenure-Track Assistant Professor Search Committee

2016–Present Director/Coordinator, Chemistry Capstone Research Program

2016–Present Director/Coordinator, Nuclear Magnetic Resonance (NMR) spectrometer facility

2015–2016 Member, Biochemistry Tenure-Track Assistant Professor Search Committee

Fall 2015 Chair, Organic Chemistry Lab Manager/Instructor III Search Committee

2013–2015 Faculty mentor to a full-time non-tenure track organic chemistry lecturer

Fall 2013 Member, Organic/General Chemistry Non Tenure-Track Faculty Search Committee

Fall 2013 Conducted a graduate school information night for interested students

2012–2013 Chair, Organic Chemistry Curriculum Committee

2010–2012 Member, Chemistry Seminar Organizing Committee

Spring 2010 Member, Chemistry Lab Manager Search Committee

2009–2014 Member, Organic Chemistry Curriculum Committee

2009–2010 Member, General Chemistry Pre-test Committee

2009–2012 Member, Chemistry Website Committee

2008–2012 Member, Chemistry Undergraduate Curriculum Committee

2008–2014 Member, Chemistry Graduate Committee

2008–2015 Academic Advisor to chemistry majors and minors

Service to the Community

Fall 2017 Represented the UVU College of Science at Utah STEMfest, engaging and interacting with middle- and high-school students using science demonstrations, 2 hours

Summer 2016 Participated in the Nielsen's Grove Park service project as part of UVU Summer University, 4 hours

Spring 2016 Represented the UVU College of Science and Health at Utah STEMfest, engaging and interacting with middle- and high-school students using science demonstrations, 3 hours

Spring 2014 Gave a tour of the chemistry laboratory facilities and performed chemistry demonstrations for six 9-10 year-old Webelos Cub Scouts and six adults, 2 hours

RESEARCH INTERESTS

Natural Product Total Synthesis

Medicinal Chemistry

Biosynthesis of Natural Products

Computational Chemistry

TEACHING INTERESTS

Organic Chemistry lecture and laboratory for majors and non-majors

Organic Reaction Mechanisms/Physical Organic Chemistry

Organic Synthesis lecture and advanced laboratory

The History of Science

PROFESSIONAL AFFILIATIONS

2017–Present Member, American Society of Pharmacognosy

2014–Present Member, American Chemical Society Division of Medicinal Chemistry

2012 Member, American Heart Association

1999–Present Member, American Chemical Society Division of Organic Chemistry

ADDITIONAL PEDAGOGICAL TRAINING

Spring 2018 Attended Faculty Learning Circle to read, discuss, and implement techniques from Brain Rules, led by Sam Gedeberg, UVU Office of Teaching and Learning

Spring 2018 Will attend Foundations of Inclusion (FOI) Level One workshop: Global and International, scheduled to take place March 13
Will attend FOI Level Three workshop: Skills – Where Do I Go From Here?, scheduled to take place February 20
Attended FOI Level One workshop: Class and Socioeconomic Status;

- January 19
 Attended FOI Level Two workshop: Understanding – Exploration of Self;
 January 19
- Fall 2017
 Attended FOI Level One workshop: Gender Relations; December 8
 Attended FOI Level One workshop: Mental Health; December 7
 Attended FOI Level One workshop: Accessibility, ADA, and Autism;
 November 29
 Attended FOI Level One workshop: Interreligious, Interfaith, and
 Worldview; November 21
 Attended FOI Level One workshop: Race and Ethnicity; November 10
 Attended FOI Level One workshop: LGBTQ; October 24
- Fall 2017
 Participated in the Great Teachers Summit, led by Anton Tolman, Wendy
 Athens, Ursula Sorensen, and Trevor Morris, UVU Office of Teaching and
 Learning, Zermatt Resort, Midway, UT, October 19-21, 2017
- Fall 2017
 Attended Faculty Learning Circle to read, discuss, and implement techniques
 from Grit: The Power of Passion and Perseverance, led by Trevor Morris,
 UVU Office of Teaching and Learning
- Spring 2017
 Attended National Science Foundation (NSF) Early Career Investigators
 Workshop, NSF Division of Chemistry, Arlington, VA, Kate Plass and Tom
 Miller, workshop organizers, one of 100 attendees selected nationwide, March
 20-21
- Spring 2017
 Attended Faculty All Aboard Series, led by Ursula Sorensen and Trevor
 Morris, UVU Office of Teaching and Learning
- Spring 2017
 Attended Faculty Learning Circle to read, discuss, and implement techniques
 from For White Folks Who Teach in the Hood... and the Rest of Y'all Too:
 Reality Pedagogy and Urban Education, led by Trevor Morris, UVU Office of
 Teaching and Learning
- Fall 2016
 Completed Collaborative Institutional Training Initiative (CITI) online
 training require prior to seeking Institutional Review Board (IRB) approval
 for pedagogical research: Conflicts of Interest, Faculty/Staff Researchers,
 and Physical Science Responsible Conduct of Research
- Fall 2016
 Attended the Council on Undergraduate Research (CUR) Institute: Beginning
 a Research Program in the Natural Sciences at a Predominantly
 Undergraduate Institution, Arlington, VA, November 18-20
- Fall 2016
 Attended Faculty All Aboard Series, led by Ursula Sorensen and Trevor
 Morris, UVU Office of Teaching and Learning

- Summer 2016 Attended intensive three-day Grant Writing Workshop, UVU Office of Sponsored Programs – led to the July 2016 submission of a NSF Faculty Early Career Development (CAREER) proposal
- Spring 2016 Attended UVU workshop “The Good, The Bad, and The Ugly: Moving Past Student Resistance Through Student Engagement,” organized and led by the Office of Teaching and Learning
- Spring 2016 Attended New Faculty Teaching Scholars, led by Ursula Sorensen and Trevor Morris, UVU Office of Teaching and Learning
- Spring 2016 Attended Faculty Learning Circle to read, discuss, and implement techniques from Teach Students How to Learn, led by Ursula Sorensen and Trevor Morris, UVU Office of Teaching and Learning
- Fall 2015 Attended workshop on specification grading, organized and led by the UVU Office of Teaching and Learning
- Fall 2015 Attended Faculty Learning Circle to read, discuss, and implement techniques from Make it Stick: The Science of Successful Learning, led by Trevor Morris, UVU Office of Teaching and Learning
- Fall 2015 Attended UVU Global/Intercultural (G/I) Training Institute to learn about preparing a G/I course at UVU
- Spring 2015 Participated in American Chemical Society Webinar “Mastering the Art of Scientific Publishing”
- 2011 Attended “Strategies for Winning Grant Proposals” Writing Seminar at Central Washington University, Ellensburg, WA
- 2009 Attended Central Washington University Center for the Teacher/Scholar Faculty Development Seminar on Critical Thinking, Ellensburg, WA
- 2008 Attended POGIL (Process Oriented Guided Inquiry Learning) workshop at the American Chemical Society Northwest/Rocky Mountain Regional Meeting, Park City, UT
- 2008 Attended “Strategies for Winning Grant Proposals” Writing Seminar at Gonzaga University, Spokane, WA