

Gretchen E. Potts, Ph.D.

Director of Integrated Studies, UC Foundation Professor of Chemistry

Chemistry and Physics/Integrated Studies

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EDUCATION

Ph.D. Analytical Chemistry, University of Florida, Gainesville, FL, 2000

BS Chemistry, Minor in Mathematics, Miami University, Oxford, OH, 1996

ACADEMIC APPOINTMENTS

2015 – present	UC Foundation Professor of Chemistry, UTC
2008 – 2015	UC Foundation Associate Professor of Chemistry, UTC
2002 – 2008	Assistant Professor of Chemistry, UTC
2000 – 2002	Visiting Assistant Professor of Chemistry, College of Charleston
1996 – 1998	Teaching Assistant, University of Florida

RELATED PROFESSIONAL EXPERIENCE

Director, Integrated Studies, 2013 – Present

Program Coordinator, Integrated Studies, 2012 - 2013

The University of Tennessee at Chattanooga

Duties: Report to the Director of the School of Professional Studies with responsibility for the mission and vision of the program, program planning and assessment, course scheduling, development of new curriculum initiatives, budget management, collaboration with programs across campus, management of prior learning assessment by dossier, advising, supervision of program coordinator, staff development, serving on CHEPS Curriculum Committee, and serving on SPS Rank, Tenure, and Promotion Committee

Select Accomplishments

- Expanded program to more than 50 enrolled majors with 34 graduates (2015-2016) and 25 graduates (2016-2017)
- Led UTC in earning ALFI status – Adult Learning Focused Institution

- Awarded THEC “Ready to Reconnect” grant for adult learners which helped to increase adult enrollment through increased recruitment efforts targeted at adult learners (instant Decision Day for transfer students) and support for the expansion online course offerings in General Education (in collaboration with Dr. Dawn Ford and the WCTL)
- Established process for acceptance of students into the major, including intent form, course planning and detailed application
- Developed online application process in Radius, to be implemented Fall 2018
- Developed SACS Outcomes assessment using Compliance Assist software and mapped the outcomes to UTC mission and goals
- Developed and manage the standard procedure for prior learning assessment by dossier for the university
- Negotiated curriculum agreements with 15 disciplines for pre-approved course plans and overrides
- Developed General Education Science, INTS 1110 – Science of Sustainability (3 hours) which is offered online
- Developed and teach INTS 4900 – Integrated Studies Senior Portfolio, first online course in CHEPS to receive QM certification (internal)
- Organized recruitment and hiring of administrative assistant and program coordinator

President, Faculty Senate, 2017 – Present
The University of Tennessee at Chattanooga

Duties: Elected spokesperson and representative of the faculty with responsibility for presiding at all meetings of the Faculty Senate, full faculty, and executive committee, serve as a non-voting member of the academic affairs committee of the UT-System Board of Trustees, and serve on University-wide committees to represent the faculty.

Select Accomplishments

- Organized viewing and discussion of AAC&U webinar on Signature Work to support UTC’s strategic plan *goal 1a*
- Developed UTC Learn organization to continue discussion on high impact practices (HIPs)
- Planned Lunch and Learn workshop to discuss electronic portfolios for HIPs.
- Collaborated with Student Development to update Honor Code and the Student Code of Conduct
- Led faculty in review and successful approval of new Faculty Handbook, first UT campus with updated handbook.
- Led discussion on online fee use which resulted in new online fee policy developed by Business and Financial Affairs
- Proposed resolutions on Outsourcing, Optional Retirement Program and the 2018 UT Focus Act, which were approved by the Senate
- Implemented financial policy to support faculty committee needs

Chair, Read2Achieve Committee, 2014 – 2016
The University of Tennessee at Chattanooga

Duties: Responsible for leading the selection, implementation, and assessment of the first year common reading selection to support student success initiatives

Select Accomplishments

- Led selection of *The Postmortal* by Drew Magary (2014), *The Circle* by Dave Eggers (2015) *The Immortal Life of Henrietta Lacks* by Rebecca Skloot (2016)
- Managed committee and six sub-committees: Assessment, Book Clubs, Book Selection, Curriculum, Social Media, and Student Steering Committee
- Collaborated with Chancellor's Office to develop Convocation

UNIVERSITY SYSTEMS TRAINING

Academic Audit	DegreeWorks (MyMocsDegree)
Argos	Digital Measures
Banner User (INB/SSB)	IRIS
Blackboard User	OU Campus
Camtasia	Radius
Compliance Assist	SSC Campus
CPI Electronic Scheduling	Zoom

ANNUAL EVALUATIONS

- Exceeds Expectations (2010, 2011, 2012, 2016, 2017, 2018)
- Distinguished Merit (2014)
- Exceptional Merit (2005, 2007)

HONORS AND AWARDS

- 2018 CHEPS Elizabeth Dalton Award for Teaching, Research, and Service
- 2018 Faculty Development Award
- 2017 University of Tennessee Leadership Institute
- 2017 Southern Conference Faculty Award for UTC
- 2016 Recipient of Affordable Course Materials Initiative Grant
- 2016 ACS Exam Institute Committee for the 2017 Quantitative Analysis Exam
- 2014 AAU&P High Impact Practices Workshop for Student Success
- 2013 Scrappy Award for Professor of the Year
- 2012 UTC Keep the Stars Shinning Performance Award
- 2012 Supernova Award Finalist
- 2012 Faculty Development Award

- 2012 UTC Summer Faculty Fellowship
- 2012 Induction into Golden Key International Honour Society
- 2012 ACS Exam Institute Committee for the 2013 Quantitative Analysis Exam
- 2009 Faculty Development Award
- 2009 UTC Faculty Advising Award
- 2009 Alpha Society Inductee (secretary 2010-2011, vice-president 2011-2012, president 2012-2013, 2018 - present)
- 2008 UTC Summer Faculty Fellowship
- 2008 University of Chattanooga Foundation named professorship
- 2007 March Chi Omega's "Professor of the Month"
- 2005 CCCE Volunteer Service Award
- 2005 UTC Summer Faculty Fellowship
- 2004 UTC College of Arts and Sciences Outstanding Service Award
- 2003 Sigma Xi Scientific Research Society Inductee

PROFESSIONAL DEVELOPMENT

- AAC&U Signature Work: From First Year to Capstone (04/27/2018, 1 hour)
- Training for Program for Minors Approval (02/27/2018)
- UT-System Department Head Training (02/09/2018, 6 hours)
- MyMocsDegree Planner Training (01/31/2018, 1 hour)
- WCU Leadership Development Workshop (01/05/2018, 8 hours)
- UTC Inclusive Excellence Conference: MOC Forward (10/17/2017, 8 hours)
- IT Security Awareness Training (10/05/2017, 1 hour)
- Digital Measures training (09/14/2017, 1.5 hours)
- Applying the Quality Matters Rubric Certification (07/04/2017, 2 week online course)
- UTC Social Media Training, sponsored by University Relations (06/14/2017, 1 hour)
- UT Women's Leadership Conference (06/08/2017)
- Provost Leadership Series V: Leading People by Steve Olson (05/03/2017, 8 hours)
- CITI training for Research with Persons who are Socially or Economically Disadvantaged (2017, online)
- CITI training for Social & Behavioral Research Investigators (2017, online)
- Provost Leadership Series IV: Leadership and Happiness by Ken Harmon (12/19/2016, 6 hours)
- Leadership in Higher Education, Atlanta GA (October 6 – 8, 2016)
- Provost Leadership Series III: Managing Communications and Monitoring Outcomes by Sheilah, F. Clarke-Ekong (08/15/2016, 6 hours)
- Socon LEAD Workshop (07/20/2016-07/21/2016)
- UT Women's Leadership Conference (06/28/2016)
- Provost Leadership Series II: Diversity and Bias by Armers Moncure of Cook Ross (05/10/2016, 6 hours)
- Fostering University-Wide Collaborations in the Use of Data to Improve Retention Practices for a so-called "At-Risk" Population Webinar (03/24/2016; 1 hour)

- Haven Training: Sexual Misconduct, Relationship Violence and Stalking (02/12/2016; 1 hour)
- Provost Leadership Series I: Adventures in Administration by Jose Antonio Rosa (12/11/2015, 3 hours)
- Title IX Training (08/25/2015, 0.5 hour)
- CHEPS/SPS Program Director IRIS Training (03/02/2016, 1.5 hours)
- NIH Grant Workshop (02/02/2016, 8 hours)
- My Mediasite Training (10/23/2015, 1 hour)
- Active Learning: Large Classes (10/22/2015, 1 hour)
- Virtual Zoom Training (10/16/2015, 1 hour)
- EAB Training (09/23/2015, 2 hours)
- Compliance Assist Training (09/16/2015, 2 hours; 02/05/2016, 1 hour)
- Academic Audit (09/08/2015, 3 hours)
- American Red Cross Adult CPR/AED (certified 12/17/2014, 2 hours)
- Safe Zone Training (12/11/2013, 3 hours)
- Is it Bias? Gender, Sexual Orientation and Workplace Issues (09/25/2012, 2 hours)

PROFESSIONAL MEMBERSHIPS

- Council on Undergraduate Research (CUR)
- The American Chemical Society (Local Section Offices Held: Treasurer/Secretary, 2015 – 2016; Treasurer, 2014; Secretary, 2012; Chair, 2011; Member-at-large, 2006)
- Sigma Xi Scientific Research Society (Chapter Secretary, 2004 – 2008)
- NSF – RSEC Program at UT-Knoxville (Faculty mentor, 2002 – 2006)
- Gamma Theta Phi, Chemistry Honor Society
- Mortar Board National Honor Society

PUBLICATIONS

*Undergraduate students

1. *Zuy, Elizabeth; Dockery, Christopher R.; and Potts, Gretchen E. HPLC Detection of Organic Gunshot Residues Collected Through Passive Sampling with Silicone Wristbands, *Microchemical Journal* (submitted 12/18/2018).
2. Potts, Gretchen E.; *DeMaily, Myranda; Thompson, Emily. Undergraduate Research Problem Solving: Using 3D Printing to Extend and Expand Equipment Use, *J. Underg. Chem. Res.* **2018**, 17, 17-19.
3. Benkert, Stuart M.; Dell, Madison M.; Ford, Dawn M.; and Gretchen E. Potts (2016, November). *Alternate Course Delivery as a Pathway to Excellence for Adult Learners*. Paper presented at National Symposium on Student Retention, Norfolk, VA. Sponsored by the Consortium for Student Retention Data Exchange.
4. *Hensley, Sarah A. and Potts, Gretchen E. Stoichiometric determination of 1-(2-pyridylazo)-2-naphthol complexation with Pb(II) by mass spectrometry, *J. Underg. Chem. Res.* **2014**, 13, 74 – 76.

5. Potts, Gretchen E. and Dockery, Christopher, R. (Eds) *Addressing the Millennial Student in Undergraduate Chemistry*. ACS Symposium Series 1180, American Chemical Society, Washington, DC, 2014. DOI: 10.1021/bk-2014-1180
6. Dockery, Christopher, R. and Potts, Gretchen E. Millennial students and undergraduate chemistry. In *ACS Symposium Series*, **2014**, 1180, 1 – 10. DOI: 10.1021/bk-2014-1180.ch001
7. *Moerman, Jessica.W.; Potts, Gretchen E. Analysis of metals leached from smoked cigarette litter, *Tobacco Control*, **2011**, 20 (Suppl 1) i30-i35.
8. *Easparam, Sarah; Potts, Gretchen E. Elemental Analysis of Shiitake Mushrooms by ICP-OES. *J. Underg. Chem. Res.* **2006**, 5, 83 – 87.
9. *Brooks, Timothy; Bodkin, Tom E.; Potts, Gretchen E. and Stephanie A. Smullen. Elemental Analysis of Human Cremains Using ICP-OES to Classify Legitimate and Contaminated Cremains. *J. For. Sci.* **2006**, 51, 967 – 973. DOI:10.1111/j.1556-4029.2006.00209.x
10. Gretchen E. Potts. Lecture Notes for "Chemistry, 4th Ed." by Olmsted and Williams. (2005)
11. <http://www.cofc.edu/genchemlab> (2001)
12. G.C. Faber, E. M. Martin, G. E. Potts and M. L. Tate. (2001) *Introductory Chemistry Laboratory Manual* (3rd Ed.) Pearson Custom Publishing: Boston, MA.
13. I.B. Gornushkin, B.W. Smith, G.E. Potts, N. Omenetto and J.D. Winefordner, Some Considerations on the Correlation Between Signal and Background in LIBS using Single Shot Analysis, *Anal. Chem.* **1999**, 71 (23) 5447 – 5449. DOI:10.1021/ac990766l

EXTERNAL PROPOSALS

Funded (Total: \$473,195)

1. THEC, Gretchen Potts (PI) Ready to Reconnect Institutional Mini-Grant: Reconnecting with UTC Adult Learners Through Outreach: Providing Scheduling Flexibility and Alternate Course Delivery (\$50,000, August 2015 – July 2016)
2. NSF-MRI, Jennifer Boyd (PI-UTC), Stylianos Chatzimanolis (CoPI-UTC), Joey Shaw (CoPI-UTC), Henry Spratt (CoPI-UTC), Thomas Wilson (CoPI-UTC), Gretchen Potts (Senior Personnel), Hill Craddock (Senior Personnel) MRI: Acquisition of growth chambers for global change biology research and research training at the University of Tennessee at Chattanooga (\$342945, January 2014 – December 2016, funded)
3. University of Tennessee Research Foundation, Hassan Almoazen (PI-UTHSC), Catherine Crill (CoPI-UTHSC), Gretchen Potts (CoPI-UTC) and Richard Helms (CoPI-UTHSC): Transdermal Delivery of Trace Elements by Nanoemulsion Technology as an Alternative to Parenteral Delivery (\$15000, 2011, funded)
4. ACS Division of Analytical Chemistry IYC Grant (Co-PI): Chemistry Concepts for Elementary Students: A Hands on Approach to Bring Science into the Classroom (\$250, 2011, funded)
5. Tennessee Higher Education Commission (Arts & Science Partner), Vocabulary across the Content Areas (\$65000, 2007, funded).

INTERNAL PROPOSALS

Total Internal: \$27,581

1. UC Faculty Development Grant. Participation in the 2018 Biennial Conference for Chemistry Education (BCCE) in South Bend, Indiana, 2018. (\$539, funded)
2. CRISP. Gretchen Potts (PI), Ethan Carver (CoPI), Margaret Kovach (CoPI) In-depth analysis of e-cigarette filling solutions and their biological implications. July 1, 2015 - June 30, 2016. (\$8000, funded)
3. UC Faculty Development Grant. Participation in the 2012 Pittsburgh Conference (Pittcon) in Orlando, Florida, 2012. (\$639, funded)
4. Faculty Summer Fellowship. Analysis of contaminants leached from cigarette litter into surface soils, Summer 2012 (\$2500, funded).
5. UC Faculty Development Grant. Participation in the 2009 Southeastern Regional Meeting of the American Chemical Society in San Juan, Puerto Rico, 2009. (\$653, funded)
6. Faculty Summer Fellowship. Contaminants in the Little Sequatchie River: An environmental water analysis study, Summer 2008 (\$2500, funded).
7. Faculty Summer Fellowship. Elemental Analysis of human cremains, Summer 2005 (\$5000, funded).
8. Grote Faculty Fellowship. Biomonitoring: A study of metal uptake in plants of the Chattanooga River Valley, Summer 2004, (\$5000, funded).
9. Instructional Excellence Grant. Detection of fluoride ion in tea leaves and drinking water: Laboratory exercises for Chemistry 341 and Chemistry 342, 2003, (\$2750, funded).

STUDENT PROPOSALS

Total Student: \$10,998

1. PSRA (Student: Katherine Adorati). Effects of Cigarette Butts on Coastal Waters, 2015 (\$968, funded).
2. PSRA (Student: Jessica Murray). HPLC detection of nicotine and related alkaloids in electronic cigarettes, 2013 (\$968, funded).
3. PSRA (Student: Josh Justice). ICP-OES Detection of Trace Elements Delivered by Nanoemulsion Technology, 2012 (\$905, funded).
4. PSRA (Student: Katherine Thurman). Plants Grown in an Ash Tray: Bioaccumulation of Metals in Pea Plants, 2011 (\$950, funded).
5. PSRA (Student: Amy Balestrino). Safe Smoking: A Study of Electronic Cigarettes, 2011 (\$950, funded).
6. PSRA (Student: Matthew Stephens). More Than Just Litter: Quantification of Organic Compounds Leached from Cigarette Butts, 2010 (\$975, funded).
7. PSRA (Student: Daniel Burriss). Analysis of Organic Compounds Leached from Cigarette Butts, 2009 (\$925, funded).
8. PSRA (Student: Jessica Woods). Analysis of Pollutants Released from Used Cigarette Litter, 2008 (\$900, funded).

9. PSRA (Student: Sarah Easparam). Development of basic media sol-gel sensors, 2007 (\$900, funded).
10. PSRA (Student: Sarah Easparam). Development of chemical sensors, 2006 (\$900, funded).
11. PSRA (Student: Timothy Brooks). Answers from the ashes, 2005 (\$875, funded).
12. PSRA (Student, Kira Shurtz) Analysis of toxic metals in *Lentinus edodes* by atomic absorption spectroscopy, 2004 (\$875, funded).
13. PSRA (Student: Jane Dickerson). Biomonitoring: Analysis of toxic metals in *Chinese privet* by ICP-OES, 2003, (\$875, funded).

CHAIRING OF SYMPOSIUMS AND WORKSHOPS

1. Co-President and Co-Organizer, Symposium at the 2016 Southeast Regional Meeting of the American Chemical Society, "Reform Pedagogy in Undergraduate Chemistry," Columbia, SC, October 2016.
2. Co-President and Co-Organizer, Symposium at the 2013 Southeast Regional Meeting of the American Chemical Society, "New Pedagogy and Approaches to Improve Student Learning Outcomes in Undergraduate Chemistry," Atlanta, GA, November 2013.
3. Chair, Oral Session at 2012 Southeast Regional Meeting of the American Chemical Society, "Analytical II", Raleigh, NC, October 2012.
4. Chair and Organizer, Workshop at the 2008 Pittsburgh Conference, "No time? No Money? No problem: Solutions for Innovative Analytical Research at Primarily Undergraduate Institutions", New Orleans, LA, March 2008.
5. Chair, Oral Session at the 2007 Southeast Regional Meeting of the American Chemical Society, "Environmental", Greenville, SC, October 2007.

PEER REVIEW

- Paper for *Journal of Undergraduate Chemistry Research*, August 22, 2018
- Paper for *Journal of Undergraduate Chemistry Research*, August 21, 2018
- Paper for *The Chemical Educator*, January 2018
- Paper for *Environmental Science and Pollution Research*, October 2017
- Paper for *Science of the Total Environment*, September 2017
- Paper for *Analytical Letters*, September 2017
- Chapter for *ACS Symposium Series*, August 20, 2017
- Chapter for *ACS Symposium Series*, August 13 2017
- Paper for *Analytical Letters*, January 2017
- Proposal for *ACS Symposium Series*, September 2016
- Paper for *Tobacco Control*, February 2016
- Paper for *Chemical Educator*, December 2014
- Proposal for *ACS Symposium Series*, October 2014
- Paper for *Analytical Letters*, November 2014
- Paper for *Analytical Letters*, September 2014

- Chapter in “Chemistry: An Atoms-Focused Approach, 1st Edition”, by Tom Gilbert, Rein Kirss, and Natalie Foster, W. W. Norton and Company, March 2013.
- Paper for *Spectrochimica Acta A*, August 2012
- Paper for *International Journal of Environmental Research and Public Health*, April 2012
- Paper for *African Journal of Agricultural Research*, March 2011
- Paper for *Analytical Letters*, October 2010
- Paper for *Spectroscopy Letters*, January 2008.
- Chapters in “Chemistry: The Science in Context, 2nd Edition”, by Gilbert, Kirss and Davies, W. W. Norton and Company, December 2006.

PRESENTATIONS

* Undergraduate students

1. Gretchen E. Potts. “Not just an eyesore: Analysis of cigarette butt leachates,” Miami University, Oxford, OH, September 6, 2018. (*invited talk*)
2. Gretchen E. Potts. “Linking Oral Communication in Chemistry to the AAC&U VALUE Rubric,” Biennial Conference on Chemistry Education, Notre Dame, Indiana, July 29, 2018-August 2, 2018. (*symposium talk*)
3. Elizabeth Crawford, Dawn Ford, and Gretchen Potts, “UTC Lunch and Learn: Application and Assessment of Portfolios,” June 6, 2018. (organized by Faculty Senate and Provost’s Office)
4. Gretchen E. Potts. “Life of a UC Foundation Professor,” UC Foundation Finance Committee, October 31, 2017. (*invited*)
5. Elizabeth Crawford and Gretchen E. Potts, “Application Of ePortfolios For Learning Assessment,” UTC Instructional Excellence Conference, May 3, 2017.
6. Gretchen E. Potts. Using Google Sites for Tenure and Promotion Dossier Development, The University of Tennessee at Chattanooga, September 24, 2015, October 23, 2015, September 15, 2016, and September 30, 2016. (Professional service)
7. Gretchen E. Potts. From Lorman to Chattanooga: Elemental analysis of Shiitake mushrooms from Mississippi, Alcorn State University, September 3, 2015 (*invited*).
8. Gretchen E. Potts. Flipping the lab: Preparing instrumental lab students for the workplace, 66th SERMACS, Nashville, TN, October 15 – 19, 2014. (*invited*)
9. Gretchen E. Potts, Jessica Moerman* and Daniel Burriss*. Not Just an Eyesore: Analysis of Metals Leached from Cigarette Butts, UTC Biology Seminar Series, February 22, 2013. (*invited*)
10. Gretchen E. Potts and Samantha J. Hughey*. Analysis of Substituted Benzoquinones: A Quantitative Cyclic Voltammetry Experiment for Instrumental Analysis Lab, The Pittsburgh Conference, Orlando, FL, March 2012.
11. Gretchen E. Potts. Engaging the Millennial Students in Analytical Lecture and Lab, The Pittsburgh Conference, Atlanta, GA, March 2011.
12. Gretchen E. Potts, Jessica Moerman* and Daniel Burriss*. Not Just an Eyesore: Analysis of Cigarette Leachates, Appalachian State University, September 24, 2010. (*invited*)

13. Gretchen E. Potts and Jessica Moerman*. Not Just An Eyesore: Analysis of Metals Leached From Cigarette Litter, 61st SERMACS, San Juan, Puerto Rico, October 21 - 24, 2009. (*symposium talk*)
14. Gretchen E. Potts. Why STEM(M)? And My Research. Girls Preparatory School, Chattanooga, TN, September 2009. (*invited*)
15. Gretchen E. Potts. Environmental research in the analytical lab: Approaches to research on a budget. The Pittsburgh Conference, New Orleans, LA, March 2008. (*invited*)
16. Gretchen E. Potts. It's Never too Early: Integrating A-Page Articles into the Environmental Analytical Classroom. The Pittsburgh Conference, Chicago, IL, February 2007. (*invited*)
17. Gretchen E. Potts, Timothy Brooks*, Stephanie Smullen and Tom E. Bodkin. Ashes to Ashes: Dust for Determination. University of Memphis, Memphis, TN, April 14, 2006. (*invited*)
18. Gretchen E. Potts, Timothy Brooks*, Stephanie Smullen and Tom E. Bodkin. Ashes to Ashes: Dust for Determination. University of Alabama, Huntsville, AL, March 24, 2006. (*invited*)
19. Gretchen E. Potts. Where is that piece of paper? Research Coordinators' Forum, Erlanger Hospital, Chattanooga, TN, March 14, 2006. (*invited*)
20. Gretchen E. Potts, Timothy Brooks*, Stephanie Smullen and Tom E. Bodkin. Ashes to Ashes: Dust for Determination. University of the South, Sewanee, TN, November 17, 2005. (*invited*)
21. Gretchen E. Potts, Jane. A. Dickerson* and Chanda. K. Price-Cooper*. Combining Creeks with Chemistry in Chattanooga: An Environmental Field Study and Research Project for Undergraduates. The Pittsburgh Conference, Chicago, IL, March 2004. (*invited*)
22. Gretchen E. Potts. Laser-induced Plasma Spectroscopy: On the way to practical applications. University of North Carolina – Greensboro, Greensboro, NC, February 2001. (*invited*)
23. Gretchen E. Potts. Particle Characterization by Laser-Induced Plasma Spectroscopy. Wittenberg University, Springfield, OH, March 2000. (*invited*)
24. Gretchen E. Potts. Mentoring: A Mutually Beneficial Alliance. NSF - ERC National Meeting, Washington D.C., November 1999. (*invited*)
25. Gretchen E. Potts, I.B. Gornushkin and J.D. Winefordner. LIBS: An Alternate Tool for Process Monitoring in Phosphate Mining. Spectroscopy in Process Control Conference, East Brunswick, NJ, June 7-8, 1999. (*invited*)

PRESENTATIONS BY COLLABORATORS

* Undergraduate students

1. *Hale CM, Carver EA, Potts GE, Kovach MJ, (2017). The Effect of E-cigarette Exposure on Cell Viability and Gene Expression. *Southeastern Biology* 64(3):P223.
2. *Hale CM, Carver EA, Potts GE, Kovach MJ, (2017). The Effect of E-cigarette Exposure on Cell Viability and Gene Expression. UTC Research Dialogues, University of Tennessee at Chattanooga, Chattanooga, Tennessee April 13, 2017.

3. Ethan A. Carver, *Marlowe, M., Kovach, M.J., and Potts, G.E. Gene Regulation and Viability of Cell Cultures Exposed to E-Cigarette Refill Solutions (Poster) NIDA Genetics Consortium Meeting. Rockville, MD 20852, December 1-2, 2016.
4. Benkert, Stuart M.; Dell, Madison M.; Ford, Dawn M.; and Gretchen E. Potts (2016, November). Alternate Course Delivery as a Pathway to Excellence for Adult Learners. Paper presented at National Symposium on Student Retention, Norfolk, VA. Sponsored by the Consortium for Student Retention Data Exchange.
5. *Marlowe, M., Potts, G.E., Kovach, M.J., and Ethan A. Carver. Cell Viability and Gene Regulation In Response to Contents of E-Cigarette Refill Solutions. (Student Poster) UTC Research Dialogues, University of Tennessee at Chattanooga, Chattanooga, Tennessee April 13, 2016.
6. *Marlowe, M., Potts, G.E., Kovach, M.J., and Ethan A. Carver. Cell Viability and Gene Regulation In Response to Contents of E-Cigarette Refill Solutions. (Student Poster) 77th Annual Meeting, Association of Southeastern Biologists, Concord, NC. March 31– April 3, 2016.

RESEARCH STUDENT PRESENTATIONS

** Undergraduate students*

1. Cintly Guzman Hernandez and Gretchen E. Potts,* Cigarette litter: A statistical study of leached elements in fresh water and saltwater, 70th SERMACS, Augusta, GA, October 31 – November 3, 2018.
2. Elizabeth Zuy,* Christopher R. Dockery, and Gretchen E. Potts, Study of organic gunshot residues on silicone wristbands by HPLC, 70th SERMACS, Augusta, GA, October 31 – November 3, 2018.
3. Myranda DeMaily* and Gretchen E. Potts. Elemental analysis of cigarette butt leachates in seawater, 68th SERMACS, Columbia, SC, October 23 – 26, 2016.
4. Veronica Hubble* and Gretchen E. Potts. E-cigarette filling solutions: HPLC optimization and analysis of tobacco alkaloids, 66th SERMACS, Nashville, TN, October 15 – 19, 2014.
5. Jessica Murray* and Gretchen E. Potts. Nicotine and what else?: Analysis of nicotinic alkaloids in e-cigarettes. Southern Regional Honors Council Conference, Savannah, GA, March 27 – 29, 2014.
6. Jessica Murray* and Gretchen E. Potts. Better nicotine fix? : Analysis of alkaloids in e-cigarette filling solutions by HPLC. 65th SERMACS, Atlanta, GA, November 11 – 14, 2013.
7. Joshua Justice*, Amy Balestrino*, Christopher Dockery and Gretchen E. Potts. GC-MS, UV-VIS, and HPLC analysis of nicotine in e-cigarette filling solutions. 64th SERMACS, Raleigh, NC, November 14- 17, 2012.
8. Amy Balestrino*, Christopher Dockery, and Gretchen E. Potts. Safe Smoking?: An Analysis of Electronic Cigarettes by GC-MS and ICP-OES. The Pittsburgh Conference, Orlando, FL, March 2012.
9. Katherine Thurman* and Gretchen E. Potts. Plants Grown in an Ash Tray: Elemental Analysis of Bean Plants by ICP-OES. The Pittsburgh Conference, Orlando, FL, March 2012.

10. Matt Stephens* and Gretchen E. Potts. More Than Just Litter: Quantification of Organic Compounds Leached from Cigarette Butts. The Pittsburgh Conference, Atlanta, GA, March 2011.
11. Daniel Burriss* and Gretchen E. Potts. Turning An Eyesore Into Art: Analysis of Organic Compounds Leached From Cigarette Litter. Posters at the Capitol, Nashville, TN, February 3, 2010.
12. Daniel Burriss* and Gretchen E. Potts. Turning An Eyesore Into Art: Analysis of Organic Compounds Leached From Cigarette Litter. 61st SERMACS, San Juan, Puerto Rico, October 21 - 24, 2009.
13. Jessica Moerman* and Gretchen E. Potts. Analysis of Pollutants Leached from Used Cigarette Litter. 60th SERMACS, Nashville, TN, November 12 - 15, 2008.
14. Sarah A. Easparam* and Gretchen E. Potts. Spectroscopic Characterization of Lead Complexes of 1-(2-Pyridylazo)-2-naphthol. 59th SERMACS, Greenville, SC, October 25 - 27, 2007.
15. Sarah A. Easparam* and Gretchen E. Potts. Determination of lead complexation to 4-(2-pyridylazo)-resorcinol (PAR). 58th SERMACS, Augusta, GA, November 1- 4, 2006.
16. Timothy R. Brooks*, Stephanie Smullen, Tom E. Bodkin, and Gretchen E. Potts. Questioning the ash: Elemental analysis of cremains using ICP-OES. 231st National Meeting of ACS, Atlanta, GA, March 26 - 30, 2006.
17. Timothy R. Brooks*, Tom E. Bodkin, Stephanie Smullen and Gretchen E. Potts. Ashes to Ashes, Dust for Determination: Elemental Analysis of Cremains by ICP-OES. 57th Southeast / 61st Southwest RMACS, Memphis, TN, November 1 - 4, 2005.
18. Kira G. Shurtz* and Gretchen E. Potts. Analysis of Toxic Metals in *Lentinus edodes* by Atomic Absorption, Flame Emission and Inductively Coupled Plasma - Atomic Emission Spectroscopy. 56th SERMACS, Durham, NC, November 2004. (3rd Place in Analytical Division)
19. Jane A. Dickerson*, Chanda K. Price* and Gretchen E. Potts. The Use of ICP-AES to Study the Feasibility of Native Plants as Biomonitors in the Tennessee River Valley. The Pittsburgh Conference, Chicago, IL, March 2004.
20. Jane A. Dickerson*, Chanda K. Price* and Gretchen E. Potts. Biomonitoring: an Analysis of Metals in Plants using ICP-AES. 55th SERMACS, Atlanta, GA, November 2003.

UNDERGRADUATE HONORS THESIS

1. Guzman Hernandez, C. Cigarette litter leachates: A statistical study of elements in freshwater and saltwater, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, November 2018.
2. Adorati, K. Effects of Cigarette Butts on Coastal Waters: An Elemental Analysis of Seawater from St. Simon's Island, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2016.
3. Murray, J. Nicotine and What Else?: HPLC Elution Optimization for the Analysis of Alkaloids Found in Electronic Cigarettes, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2014.

4. Justice, J. Analysis of Nicotine Concentrations in Electronic Cigarette Filling Solutions by Three Instrumental Methods, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN , March 2013.
5. Thurman, K. Plants Grown in an Ash Tray: Bioaccumulation of Metals in Bean Plants, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2012.
6. Balestrino, A. Safe Smoking: A Study of Electronic Cigarettes, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2012.
7. Moerman, J. Not Just an Eyesore: Analysis of Elements Leached from Cigarette Litter, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2009.
8. Easparam, S. A. Characterization of Lead (II) Complexes by Spectroscopic Analysis, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2007.
9. Brooks, T. R. Answer in Ashes: Elemental Analysis of Cremains by ICP-OES, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2006.
10. Dickerson, J. A. Biomonitoring: An Analysis of Plants for Metals Using ICP-AES, Departmental Honors Thesis, University of Tennessee at Chattanooga, Chattanooga, TN, March 2005.

DEPARTMENTAL SERVICE

- Safety Committee (member, 2016 – present)
- Department Twitter (2016 – present)
- Chemistry STEM Advisor (2018 – present)
- Pre-med Advisor (2011 – present)
- Strategic Planning Committee (2018 – present)
- Vision Committee (chair, 2017)
- Visiting Analytical Chemistry Professor Hire Committee (chair, 2016 – 2017)
- Department Webmaster (2002 – 2013, 2016)
- Summer Undergraduate Research/SERMACS Travel (co-chair, 2014 – 2016)
- Physical Chemistry Hire Committees (member, 2012 – 2013, 2013 – 2014)
- Grote Scholarship Advisor and Chair (2005 – 2013)
- Chemistry Orientation Advisor (2007 – 2010)
- Freshmen Advisor (2003 – 2012)
- Advisor, Chemistry Club (2002 – 2004, 2007 – 2009)
- Department Brochure (2004 – 2008)

UNIVERSITY SERVICE

member unless otherwise noted

- Faculty Athletics Committee (2007 – 2012, 2013 – 2017, 2018 - present; chair, 2009-2011, 2016 – 2017, 2018 - present)

- Student Conduct Board (2018 – present)
- Assistant Graduation Marshal (2004 – present)
- Institutional Compliance Committee (2016 – present)
- CHEPS Curriculum Committee (2015 – present)
- Diversity Advisory Council (2017 – present)
- Associate Dean for College of Arts and Sciences Search Committee (2018)
- Vice Chancellor and Provost for Academic Affairs Search Committee (2018)
- Faculty Senate Past-President (2018-2019)
- Faculty Senate President (2017 – 2018)
- Faculty Senate Executive Committee (2006 – 2008, 2016 – 2017, 2018-2019; chair, 2017 - 2018)
- Chancellor’s Athletics Board (2012 – 2015, 2016 – 2019)
- FYRE/Read2Achieve Committee (2011 – present; chair, 2014 – 2016)
- Vice Chancellor and Director of Athletics Search Committee (2017)
- Ad Hoc Mapping Committee (chair, 2017)
- Committee on Committees (chair, 2016 – 2017)
- Faculty Senate President Elect (2016 – 2017)
- Pre-Health Advisor Search Committee (2016 – 2017)
- Women’s Leadership Planning Committee (2015 – 2016)
- NIH-BRAD Steering Committee (2014 – 2017)
- Peer Review Team for NCURA Site Visit (2016)
- Operation Move-In Volunteer (2016, 2017)
- Career Services Review Committee (2015)
- College of Arts and Sciences Curriculum Committee (2014 – 2015)
- Vice Chancellor for Research and Dean of the Graduate School Search Committee (2014 – 2015)
- Integrated Studies Committee (2012 – 2015)
- Brock Scholar Curriculum Committee (2014)
- Ruth Holmberg Professorship Selection Committee (2014)
- Flipped Classroom Panelist (2014)
- Reviewer for ORAU Internal Competition for Grant Proposal Submission (2013)
- Online Task Force (2013 – 2014)
- Brock Scholar Perspective Interview Committee (2012 – 2014)
- Complete College Advisor Search Committee (2013 – 2014)
- Chancellor Search Committee (2012 – 2013)
- College of Arts & Sciences Council (2011 – 2012)
- Ad Hoc EDO Appeals Committee (2011)
- Volleyball Coach Search Committee (2011)
- NCAA Self Study Steering Committee, Report Coordinator (2010-2012)
- Director of Athletics Advising Search Committee (2010)
- Faculty Administrative Relations Committee (2009 – 2012; chair, 2011 – 2012)
- Omega Phi Alpha Service Sorority, Advisor (2005 – 2013)
- Petitions Committee (2008)
- Webmaster for Wheeler Odor Center (2008 – 2012)

- Grants and Research Advisory Committee (2008)
- Faculty Senate Secretary (2006 – 2008)
- Athletic Director Search Committee (2006)
- Faculty Senator (2002 – 2006)
- Grade Appeals Committee (2005 – 2009, chair 2008)
- Scholarship Committee (2004 – 2007, 2012 - 2013, chair 2004)
- Classroom Technology Committee (2003 – 2005)

UT-SYSTEM SERVICE

- University Faculty Council (2017 – 2018)
- Tennessee Universities Faculty Senate (2017 – 2018)
- UT-System Board of Trustees Academic Affairs and Student Success (2017 – 2018)
- UT-System Representative to Multi-system New Models, Group II: Credit Transfer (2013)
- UT-System Strategic Planning Task Force, Faculty Affairs (2011-2012)

COMMUNITY SERVICE

- Chattanooga Girls Leadership Academy Senior Project Mentor (2016 – present)
- Chattanooga Donor Services (2007 – present)
- Governor’s School on Teaching Workshop for Chemistry (2016 - present)
- Chattanooga Local Section of the ACS (Treasurer/Secretary, 2015 – 2016; Treasurer, 2014; Secretary, 2012; Chair, 2011; Member-at-large, 2006)
- Southeast Tennessee STEM Council, board member (2012 – 2015)
- Chattanooga Heart Walk Team Captain, UTC Hearts and Sciences (2014, raised \$1685)
- Coach for Teacherpreneur 48HR Launch (2014) – team won the competition (Howard HS Science teachers)
- ACS Judge for Chattanooga Regional Science and Engineering Fair (2014 – present)
- Soloist, National Anthem at Hydrocephalus Association of Chattanooga 5K Walk (2013, 2014)
- Soloist, National Anthem at United Way Kick-Off Breakfast (2013)
- DREAMWORK Nursing Camp, Chemistry Lecture and Lab (2012)
- Chemistry polymer lab for STEM Expo with Girl Scouts of America (2012)
- Chemistry demonstrations for PAWS Program (2012)
- Volunteer at Interfaith Homeless Network (2012)
- UTC Master Chorale (2007, 2009 – 2013)
- Chemistry Olympiad Coordinator (2002 – 2010)
- Soloist, National Anthem at Southern Conference Basketball Tournament (2011)
- Chemistry tours and demos for Upward Bound students through CCCE (2005)
- Forensic Talk and Instrumentation Demonstration to GPS Classes (2004 – 2012)

- Scenic City Carolers (2004 – 2006)

CLASSES TAUGHT AT UTC

courses have been renumbered since my arrival at UTC

- CHEM 1110: General Chemistry (previously 121)
- CHEM 1110L: General Chemistry Laboratory (previously 121L)
- CHEM 1110L Honors: Honors General Chemistry Laboratory (previously 121L)
- CHEM 3210: Quantitative Analysis
- CHEM 3210L: Quantitative Analysis Lab (previously 341L)
- CHEM 3820: Chemical Literature (previously 386)
- CHEM 4220: Methods of Environmental Analysis (previously 342)
- CHEM 4220L: Methods of Environmental Analysis Laboratory (previously 342L)
- CHEM 4230: Instrumental Analysis
- CHEM 4230L: Instrumental Analysis Laboratory
- CHEM 4830: Chemistry Seminar (previously 486)
- CHEM 4995: Departmental Thesis (previously 495)
- CHEM 4997: Departmental Research (previously 497)
- CHEM 4998: Individual Studies
- INTS 4810: Integrated Studies Internship
- INTS 4900: Integrated Studies Senior Portfolio
- INTS 4998: Individual Studies