

CURRICULUM VITAE

NAME:

Carl Edward Wolf II, Ph.D., M.S., F-ABFT

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EDUCATIONAL BACKGROUND:

2000 - 2005 **Doctorate of Philosophy**, Forensic Toxicology, Department of Pathology, Medical College of Virginia at Virginia Commonwealth University, Richmond, Virginia.
Dissertation: "Prevalence of Alcohol and Drugs in Second Sample Blood Specimens from Potentially Impaired Drivers in the Commonwealth of Virginia, 2001-2002".

1993 - 1994 **Master of Science**, Forensic Science Option, Department of Administration of Justice, Virginia Commonwealth University, Richmond, Virginia.

1988 - 1993
1998 - 2000 **Special Student**, Medical College of Virginia & Virginia Commonwealth University, Richmond, Virginia.

1986 **Bachelor of Science**, Chemistry
Gannon University, Erie, Pennsylvania

CERTIFICATION:

2014 – Present **Fellow**, American Board of Forensic Toxicology, Inc. Colorado Springs, Colorado. Recertified in 2018.

2012 – 2014 **Diplomate**, American Board of Forensic Toxicology, Inc. Colorado Springs, Colorado.

2001 – 2012 **Forensic Toxicology Specialist**, American Board of Forensic Toxicology, Inc. Colorado Springs, Colorado. Recertified 2006 & 2011.

PROFESSIONAL EXPERIENCE:

1991 – Present **Toxicology Laboratory Supervisor**, Hospital Toxicology & Toxicology Specialty Testing Laboratories, Medical College of Virginia Hospitals and Physicians at VCUHS, Richmond, Virginia. Responsible for overseeing QA/QC, instrument maintenance and repair, method development and validation, and keeping documentation for CAP, CLIA, OSHA and TJC accreditation or compliance. Participate in writing specifications and evaluating new instruments for purchasing. Supervise blood drug testing for Virginia DUI & DUIG testing as an accredited independent laboratory. Supervise urine testing for College of American Pathologists (CAP) FDT. Certifying Scientist for forensic testing performed in the laboratory. Testify and consult formally and informally on procedures and methods used in the laboratory for analyzing samples for various drugs. Educate house staff on appropriate testing and interpretation of testing to determine the most effective testing for patient care.

2015 – Present **Lecturer**, Ambulatory Clinic Rotation for Primary Care Interns, Department of Internal Medicine, School of Medicine, Virginia Commonwealth University, Richmond, Virginia. Responsible for educating interns on the theory, utility and interpretation of drug testing and how it is involved in patient care.

2014 **Lecturer**, Virginia Commonwealth University, Richmond Virginia. Provide lecturing for graduate students in Clinical Laboratory Sciences in Advanced Concepts in Spectrometry and Spectroscopy.

2008 – 2013 **Adjunct Faculty**, Department of Forensic Sciences, Virginia Commonwealth University. Provide lecturing and hands on practical instruction to Senior Undergraduate Forensic Chemistry students in techniques and equipment used to analyze a wide variety of compounds and drugs that a Forensic Chemist may encounter on a daily basis.

2005 – Present **Forensic Toxicologist**, Reviewing records and providing expert testimony in the Commonwealth of Virginia and the State of North Carolina relating to Human Performance Toxicology, Forensic Workplace Drug Testing, and Death Investigation Toxicology (Postmortem Toxicology).

2005 - Present **Lecturer**, Virginia Commonwealth University, Richmond Virginia. Provide guest lecturing for graduate students in Forensic Toxicology class in techniques used in the analysis of biological specimens to detect the presence of drugs.

2004 - Present **Mentor**, Virginia Commonwealth University, Richmond Virginia. Provide laboratory training and oversight to undergraduate and graduate students, performing internships and independent study from the Forensic

- Science Program, in the techniques used in the analysis of biological specimens to detect the presence of drugs.
- 2002 - 2004 **Instructor**, Virginia Commonwealth University, Richmond, Virginia. Instruct students in Criminalistics & Crime Analysis Laboratory class in the use of various color tests as preliminary screening tools to detect the presence of drugs and compounds in unknown substances.
- 2000 - Present **Inspector**, College of American Pathologists, Northfield, IL. Clinical Toxicology and FDT.
- 1998 - 1999 **Acting Manager and Toxicology Laboratory Supervisor**, Hospital Toxicology & Toxicology Specialty Testing Laboratories, Medical College of Virginia, Richmond, Virginia. Responsible for all lab supervisor duties, as well as all manager duties. Including budget preparation, variances, and day-to-day management of the laboratory.
- 1993 - 1997 **Instructor**, Blood-borne Pathogen Exposure Control Plan, Department of Pathology, Medical College of Virginia, Richmond, Virginia.
- 1993 **Chemist**, Scientific Testing Laboratory, Richmond, Virginia, Part-time.
- 1990 - 1991 **Medical Technologist Senior**, Toxicology Specialty Testing Laboratory, Medical College of Virginia, Richmond, Virginia.
- 1988 - 1990 **Medical Technologist Senior**, Hospital Toxicology Laboratory, Medical College of Virginia, Richmond, Virginia.
- 1987 - 1988 **Medical Technologist**, Hospital Toxicology Laboratory, Medical College of Virginia, Richmond, Virginia.

APPOINTMENTS:

- 2018 – 2019 **Faculty Advisor**, Hubert H. Humphrey Fellowship Program at Virginia Commonwealth University, the U.S. Department of State and the Institute of International Education, Washington, DC.
- 2018 – Present **Vice-Chairholder**, Guideline C40: Measurement Procedures for the Determination of Lead Concentrations in Blood and Urine, Reaffirmation, Clinical and Laboratory Standards Institute, Inc. (CLSI), Wayne, Pennsylvania
- 2018 – Present **Member, Expert Panel on Clinical Chemistry and Toxicology**, Clinical and Laboratory Standards Institute, Inc. (CLSI), Wayne, Pennsylvania
- 2017 – Present **Assistant Professor, Adjunct**, Department of Pathology, School of Medicine, Medical College of Virginia Campus, Virginia Commonwealth University, Richmond, Virginia.
- 2017 – Present **Graduate Faculty, Affiliate**, School of Medicine, Medical College of Virginia Campus, Virginia Commonwealth University, Richmond, Virginia.
- 2017 – Present **Committee Member**, Continuing Education Committee & Annual Meeting's Food and Beverage Committee, Society of Forensic Toxicologists.
- 2016 – 2018 **Abstract Reviewer**, Annual Meeting Organizing Committee's Abstract Review Committee, American Association of Clinical Chemist, Washington, DC.
- 2013 – Present **Committee Member**, Hospital Pain Committee, VCU Health, Richmond, Virginia. Responsible for providing Toxicology input and resources for the multidisciplinary committee.
- 2013 **Chair**, Scientific Workshop: Overview & Review of Forensic Toxicology, Society of Forensic Toxicologist Meeting, Orlando, FL, October. 2013.
- 2008 - Present **Assistant Clinical Professor**, Department of Pathology, School of Medicine, Medical College of Virginia Campus, Virginia Commonwealth University, Richmond, Virginia.
- 2007 - Present **Research Assistant Professor**, Department of Forensic Science, Virginia Commonwealth University, Richmond, Virginia
- 2007 – 2008 **Graduate Faculty, Affiliate**, School of Medicine, Medical College of Virginia Campus, Virginia Commonwealth University, Richmond, Virginia.
- 2010 **Chair**, Scientific Workshops, Society of Forensic Toxicologists Meeting. Richmond, VA. October. 2010.
- 2008 **Chair**, Scientific Workshop: Overview & Review of Forensic Toxicology, Society of Forensic Toxicologist Meeting, Phoenix, AZ, October. 2008.

- 2004 – Present **Committee Member**, Chronic Non-Malignant Pain Management Curriculum, Department of Internal Medicine, Virginia Commonwealth University Medical Center, Richmond, Virginia. Responsible for providing Toxicology input and resources for the development and updating of a Continuing Education Program for Residents, Interns, and House Staff in the Department of Internal Medicine.
- 2004 – 2014 **Manuscript Reviewer**, Journal of Clinical Laboratory Analysis
- 1994 - 1997 **Chairman**, Department of Pathology Safety Committee, Medical College of Virginia, Richmond, Virginia. Member of MCVH Standard Precautions Committee, and MCV Hospital Safety Congress. Responsible for communicating safety issues throughout the department, conducting monthly meetings, keeping documentation necessary for CAP, JCAHO, and OSHA accreditation and compliance.

MEMBERSHIPS AND SOCIETIES:

- Society of Forensic Toxicologists (SOFT), Full Member
- The International Association of Forensic Toxicologists (TIAFT), Full Member

GRANTS AND AWARDS:

- 2019 "True Prevalence of Heroin Use in Patients from a Pain Management Clinic." Mentor, VCU Undergraduate Research Opportunities Program (UROP), UROP Summer Research Fellowship, Virginia Commonwealth University,
- 2018 "Development of Matrix Matched Quality Control Materials and Sample Preparation Techniques for the Analysis of Marijuana Infused Products and their Application to Edible Testing", Principle Investigator (PI), National Institute of Justice, Research and Development in Forensic Science for Criminal Justice Purposes, 2017-R2-CX-0029.
- 2017 "Evaluation of sample preparation techniques for Matrix Effects and Absolute Recovery using UPLC-MS/MS using opiates and liver tissue specimens as the model and application to post-mortem toxicology." Co-PI, National Institute of Justice, Research and Development in Forensic Science for Criminal Justice Purposes, 2016-DN-BX-0148. Closed May 31, 2018.
- 2017
- 2007 School of Medicine Teaching Excellence Award; The Educational Innovation/Educational Research Award, Virginia Commonwealth University School of Medicine, Richmond, Virginia. Chronic Non-Malignant Pain Management Curriculum
- 1983 Chemical Rubber Company Press' Outstanding Freshman Chemist, Gannon University

PUBLICATIONS:

- Wolf CE, Pierce KL, Dempsey SK, Nanco CR, Poklis JL, Korzun WJ. Using papaverine and its metabolites, 6-desmethyl papaverine (6-DMP) and 4, 6-didesmethyl papaverine (4,6-DDMP) as biomarkers to improve the detection time of heroin use 10.1093/jat/bkz069.
- Ramnarine RS, Poklis JL, Wolf CE. Determination of Cannabinoids in Breast Milk using QuEChERS and Ultra-Performance Liquid Chromatography and Tandem Mass Spectrometry (UPLC-MSMS). J Anal. Toxicol. 10.1093/jat/bkz072.
- Nanco CR, Poklis JL, Hiler MM, Breland AB, Eissenberg TE, Wolf CE. An ultra-high-pressure liquid chromatographic tandem mass spectrometry method for the analysis of benzoyl ester derivatized glycols and glycerol. J Anal. Toxicol. 10.1093/jat/bkz0.
- Downs J, Rose R, Wolf C, Cumpston K, Wills B. Pediatric Guanfacine Toxicity with Severely Elevated Plasma Level. North American Congress of Clinical Toxicology- Annual Meeting, Nashville, TN. September, 2019. Clinical Toxicology, 2019;57(10):1001.
- Poklis JL, Gonek MM, Wolf CE, Akbaral HI, Dewey WL. Analysis of carbenoxolone by ultra-high-performance liquid chromatography tandem mass spectrometry in mouse brain and blood after systemic administration. Biomedical Chromatography, 2018, doi: 10.1002/bmc.4465.
- Poklis JL, Peace MR, Wolf CE. Ethanol Concentration in 56 Refillable Electronic Cigarettes Liquid Formulations Determined by Headspace Gas Chromatography with Flame Ionization Detector (HS-GC-FID). Drug Testing and Analysis. 2017, Vol 9(10), pp. 1637-40.
- Dempsey SK., Poklis JL, Sweat K, Cumpston K, Wolf CE. Acute toxicity from intravenous use of the tricyclic antidepressant tianeptine. J. Anal Toxicol. 2017, doi: 10.1093/jat/bkx034.
- Rauenzahn S; Sima A; Cassel B; Noreika, D; Gomez T; Ryan L; Wolf C; Legakis L; Del Fabbro E. Urine Drug Screen Findings among Ambulatory Oncology Patients in a Supportive Care Clinic. Supportive Care in Cancer. 2017, Vol.25(6), pp.1859-64.

- Poklis JL, Mulder HA, Halquist MS, Wolf CE, Poklis A, Peace MR. The Blue Lotus Flower (*Nymphaea Caerulea*) Resin Used in a New Type of Electronic Cigarette, the Rebuildable Dripping Atomizer. *J Psychoactive Drugs*. <http://dx.doi.org/10.1080/02791072.2017.1290304>.
- Peace MR, Krakowiak RI, Wolf C, Poklis A, Poklis JL: Identified of MDMB-FUBINACA in Commercially Available E-liquid Formulations Sold for Use in Electronic Cigarettes, *Foren Sci Int*. 271:92-7, 2017.
- Poklis JL; Wolf CE; Poklis A. 4-Fluoroamphetamine in Serum and Urine from an Intoxicated Patient with Life-Threatening Hyperpyrexia, *J Anal Tox*, 40(2):171-172, 2016.
- Wolf, CE, Poklis, JL, Poklis A. Stability of Tetrahydrocannabinol and Cannabidiol in Prepared Quality Control Medible Brownies, *J Anal Toxicol*, 18 October 2016, 10.1093/jat/bkw114.
- Wolf CE, Poklis JL, Cumpston K, Moss M, Poklis A. Acute Dilated Cardiomyopathy and Myocardial Injury after Combined 4-Fluoroamphetamine and Modafinil Ingestion. *Drug Testing and Analysis*, 40(2), 171-172, 2016.
- Hieger MA, Emswiler MP, Maskell KF, Sentz JT, Miller KB, Wolf CE, Cumpston KL, Wills BK. A Case Series of Clenbuterol Toxicity caused by Adulterated Heroin. *J Emerg Med* 51(3), 259-261, 2016.
- Poklis JL, Mohs AJ, Wolf CE, Poklis A, Peace MR. Identification of Drugs in Parenteral Pharmaceutical Preparations from a Quality Assurance and Potential Diversion Program by Direct Analysis in Real-Time AccuTOFTM-Mass Spectrometry (DART-MS), *J Anal Toxicol* published 29 July 2016, 10.1093/jat/bkw065].
- Poklis JL; Wolf CE; Nanco CR; Poklis A. Recommendations for specimen collection for NBOMe analysis in clinical toxicology. *Clinical toxicology*, 2016, 54(2):161-2.
- Nascimento R, Wolf CE, Poklis A. Evaluation of a Newly Formulated Enzyme Immunoassay for the Detection of Hydrocodone and Hydromorphone in Pain Management Compliance Testing. *J Anal Toxicol* published 25 August 2016, 10.1093/jat/bkw080
- Chun H-J, Poklis JL, Alphonse Poklis A, Wolf CE. Development and Validation of a Method for Alcohol Analysis in Brain Tissue by Headspace Gas Chromatography with Flame Ionization Detector (HS-GC-FID), *J Anal Tox* 3 August 2016, 10.1093/jat/bkw075].
- Peace MR, Baird TR, Smith N, Wolf CE, Poklis JL, Poklis A. Concentration of Nicotine and Glycols in 27 Electronic Cigarette Formulations. *J Anal Toxicol*, 40(6). 403-407, 2016.
- Poklis, JL, Wolf CE, Poklis A. 4-Fluoroamphetamine in Serum and Urine from an Intoxicated Patient with Life-Threatening Hyperpyrexia. *J Anal Toxicol* 2016 40: 171-172
- Maskell, K, Tse, A, Wolf CE; Troendle M. Acute on chronic ivabradine overdose: a case report. *Journal of Medical Toxicology*, 12(2), 189-191 2016
- Poklis J, Poklis A, Wolf C, Mainland M, Hair L, Devers K, Chrostowski L, Arbefeville E, Merves M, Pearson J. Postmortem Tissue Distribution of Acetyl Fentanyl, Fentanyl and their Respective Nor-Metabolites Analyzed by Ultrahigh Performance Liquid Chromatography with Tandem Mass Spectrometry, *Forensic Science International* 257: pp. 435-44, 2015
- Poklis JL, Dempsey SK, Liu H, Ritter JK, Wolf C, Zhang S, Poklis A. Identification of Metabolites of the Designer Hallucinogen 25I-NBOMe 5n Mouse Hepatic Microsomal Preparations and Human Urines Associated Clinical Intoxication. *J Anal Tox*, 39(8): 607-616, 2015
- Poklis JL, Wolf CE, Eljordi OI, Liu K, Zhang S, Poklis A. Analysis of the First- and Second-Generation Raving Dragon Novelty Bath Salts Containing Methyldrone and Pentadrone. *J Forensic Sci*. 2015, 60:S234-40.
- Wolf CE, Goldstein, Poklis JL, A, Poklis A. Evaluation of a Enzyme Immunoassay for the Detection of Methadone Metabolite EDDP [2-Ethylidene-1, 5-dimethyl-3, 3-diphenylpyrrolidine] in Urine. *J Clin Lab Anal*, 28:136-140, 2014.
- Poklis JL, Charles J, Wolf CE, Poklis A. High Performance Liquid Chromatography Tandem Mass Spectrometry Method for the Determination of 2CC-NBOMe and 25I-NBOMe in Human Serum, *Biomed Chrom*, 2013, 27(12), 1794-800.
- Poklis JL, Nanco CR, Troendle M, Wolf CE, Poklis A. Determination of 4-bromo-2,5-dimethoxy-N-[(2-methoxyphenyl)methyl]-benzeneethanamine (25B-NBOMe) in serum and urine by High Performance Liquid Chromatography with Tandem Mass Spectrometry in a Case of Severe Intoxication. *Drug Testing and Analysis*. 2014, 6, 764.
- Poklis JL, Wolf CE, Goldstein A, Wolfe ML, Poklis A. Detection and quantification of tricyclic antidepressants and other psychoactive drugs in urine by HPLC/MS/MS for pain management compliance testing. *J Clin Lab Anal*. 26(4):286-94, 2012.
- Carney S, Wolf CE, Tarnai-Moak L, Poklis A. Evaluation of two enzyme immunoassays for the detection of the cocaine metabolite benzoylecgonine in 1398 urine specimens. *J Clin Lab Anal*, 26(3):130-5, 2012.

- Wolf CE, Kester-Florin SJ, Poklis A. An HPLC-MS method to detect and quantify guanfacine in urine. *Clin Chem Lab Med*. 50(3):535-7, 2012.
- Pearson J, Saady JJ, Fierro M, Wolf C, Poklis A. An unusual case of homicide by chronic methanol poisoning. *Forensic Toxicol*, 30:66-69, 2012.
- DeLong GT, Wolf CE, Poklis A, Lichtman AH. Cannabichromene and Tetrahydrocannabinol Determination in Blood and Brain by Gas Chromatography Mass Spectrometry. *J Anal Tox*, 35(7):496-500, 2011.
- Poklis JL, Guckert B, Wolf CE, Poklis A. Evaluation of a new phencyclidine enzyme immunoassay for the detection of phencyclidine in urine with confirmation by high-performance liquid chromatography-tandem mass spectrometry. *J Anal Tox*, 35(7):481-6, 2011.
- DeLong GT, Wolf CE, Poklis A, Lichtman AH. Pharmacological evaluation of the natural constituent of *Cannabis sativa*, cannabichromene and its modulation by $\Delta(9)$ -tetrahydrocannabinol. *Drug Alcohol Depend*. Nov 1;112(1-2):126-33, 2010.
- Haglock CJ, Wolf CE, Poklis A. A Novel Method for the Determination of Guanfacine in Urine by GC/MS. *J Anal Tox*, 32(8), 544-546, 2008.
- Wolf CE, Poklis A. A Rapid HPLC Procedure for Analysis of Analgesic Pharmaceutical Mixtures for Quality Assurance and Drug Diversion Testing. *J Anal Tox*, 29(7), 711-714, 2005.
- Holstege CP, Ferguson JD, Wolf CE, Baer AB, Poklis A. Analysis of moonshine for contaminants. *J Toxicol Clin Toxicol*, 42(5):597-601, 2004.
- Leffel EK, Wolf CE, Poklis A, White KL. Drinking water exposure to cadmium, and environmental contaminant, results in the exacerbation of autoimmune disease in the murine model. *Toxicology*, 2-3(188), 233-250, June 2003.
- Al-Mateen CS, Wolf CE. Falsely elevated imipramine levels in a patient taking quetiapine. *J Am Acad. Child Adolesc. Psychiatry*. 41(1): 5-6, 2002.
- Wolf CE, Crooks CR, Poklis A. Rapid Gas Chromatographic Procedure for the Determination of Topiramate in Serum, *J Anal Tox*, 24(7):661-3, 2000.
- Wolf CE and Poklis A. GC/MS Analysis for Morphine and other Opiates in Urine, Varian GC/MS Application Note Number 59, 1997.
- Ferrell M, Wolf C, Ellenbogen K, Wood M, Clemo H, Gilligan D. Ethylene Oxide on Electrophysiology Catheters following Re-sterilization: Implications for Catheter Reuse, *Am J Cardiol*, 80:1558-1561, 1997.
- Wolf C, Saady J, Poklis A. Determination of Gabapentin in Serum using Solid Phase Extraction and Gas Liquid Chromatography, *J Anal Tox* 20(6):498 - 501, 1996.
- O'Neal C, Wolf C, Levine B, Kunsman G, Poklis A. Gas Chromatographic Procedures for Determination of Ethanol in Postmortem Blood using t-butanol and Methyl Ethyl Ketone as Internal Standards. *Forensic Science International*, 83:31-38, 1996.
- Gabapentin in serum, Procedure code: GABACEC18102495, United Chemical Technologies, Inc., 1995.
- Saady J, Wolf C, Poklis A. Evaluation of the Acculevel Theophylline Assay. *Analytical Letters*, 23(11):2019 - 2026, 1990.

ABSTRACTS / PRESENTATIONS:

- Wolf CE, Brightman HL, Poklis JL, Korzun WJ. Forty plus ways not to analyze beverages for cannabinoids, National Institute of Justice, Forensic Science Research and Development Symposium, American Academy of Forensic Sciences' 72th Annual Scientific Meeting, Anaheim, CA, February 2020.
- Poklis JL, Schultz J, Stauffenberg MR, Wolf CE. The Detection and Quantification of Tianeptine in Postmortem Blood and Urine, American Academy of Forensic Sciences' 72th Annual Scientific Meeting, Anaheim, CA, February 2020.
- Wolf CE, Joshi PH, Singh K, Muthukumar A, Poklis JL. Ivabradine, a non-fatal cardiotoxicant overdose and its presence in an unexplained case. SOFT Meeting, San Antonio, TX, October 2019.
- Orton KL, Spencer CM, Vest (Heneks) JA, Fielden RB, Poklis JL, Wolf CE. Havoc in the Kitchen: Making to do some Baking, the Preparation of Matrix-Matched Cannabinoid Calibrators and Controls SOFT Meeting, San Antonio, TX, October 2019.
- Nanco CR, Tenney RD, Wolf CE, Banks ML, Poklis JL. Serum plasma fentanyl concentrations increased in rhesus monkeys after fentanyl-TT conjugate vaccine administration. SOFT Meeting, San Antonio, TX, October 2019.
- Dempsey SK, Wolf CE, Poklis JL. Separation of opiates and their oxime derivatives using differential ion mobility tandem mass spectrometry (DMS-MS/MS). SOFT Meeting, San Antonio, TX, October 2019.

- Poklis JL, Revenge M, Wolf CE, Gonzalez-Maeso J. Ultra-high-performance liquid chromatograph tandem mass spectrometer (UHPLC-MS/MS) method for the analysis of DOI in mouse blood and brain with corresponding head-twitch response (HTR)SOFT Meeting, San Antonio, TX, October 2019.
- Wolf, CE. Pain Management Compliance Testing – A Brief Synopsis, OMG, What does this mean?, VCU Health Office of Continuing Education, Norfolk, Virginia, September 2019
- Downs J, Rose R, Wolf C, Cumpston K, Wills B. Pediatric Guanfacine Toxicity with Severely Elevated Plasma Level. North American Congress of Clinical Toxicology- Annual Meeting, Nashville, TN. September, 2019.
- Wolf, CE. The Highs & Lows of Marijuana Infused Edible (Medible) Testing: Whole New Matrices. Virginia Department of Forensic Science, Richmond, Virginia, July 2019.
- Ramnarine RS, Poklis JL, Wolf CE. Evaluation of Extraction Methods for the Determination of Cannabinoids in Breast Milk. 2019 NIDA International Forum, San Antonio, Texas. June 2019.
- Wolf, CE. Marijuana infused edible (medible) testing:" Chewzing" your technique. 2019 Triangle Chromatography Spring Symposium. Durham, North Carolina. May 2019.
- Wolf CE. Heroin: Tip toeing through the poppy fields with opium, Department of Pathology, Virginia Commonwealth University. April 2019.
- Wolf CE. Webinar, Development of matrix matched quality control materials and sample preparation techniques for the analysis of marijuana infused products. Emerging Research in Toxicology & Drugs. Center for Forensic Sciences, Forensic Technology Center of Excellence. RTI International, April 2019.
- Wolf CE. There's more to heroin than just heroin. Richmond Society for Clinical Laboratory Sciences. Richmond, VA, April 2019.
- Wolf CE, Pierce KL, Dempsey SK, Nanco CR, Poklis JL, Korzun WJ. Ultra-performance liquid chromatography tandem mass spectrometry (UPLC-MS/MS) used for the separation of papaverine metabolites, a potential biomarker for latent illicit heroin use. PittCon Conference and Expo 50, Philadelphia, PA, March 2019.
- Dempsey SK, Wolf CE, Poklis JL. Differential Ion Mobility Tandem Mass Spectrometry (DMS-MS/MS) Used for the Separation of Common Opiates. PittCon Conference and Expo 50, Philadelphia, PA, March 2019.
- Hiler M, Ratliff L, Crabtree M, Wolf CE, Poklis JL, Nanco CR, Breland A, Eissenberg T. Can Urine Propylene Glycol and/or Vegetable Glycerin Concentration be used as a Biomarker of Recent Electronic Cigarette Use? Society for Research on Nicotine and Tobacco, 25th Annual Meeting, San Francisco, CA, February 2019.
- Orton KL, Spencer CM, Heneks JA, Fielden RB, Poklis JL, Wolf CE. Medible Testing: Preparation of Matrix-Matched Calibrators and Controls for Forensic Analysis. American Academy of Forensic Sciences' 70th Annual Scientific Meeting, Baltimore MD, February 2019.
- Spencer CM, Orton KL, Heneks, JA, Poklis JL, Wolf CE, Getting Fat Out of Fat: The Extraction of Cannabinoids from Chocolate, SOFT Meeting, Minneapolis, MN, October. 2018.
- Pierce KL, Goldfine GL, Nanco CR, Poklis JL, Korzun WJ, Wolf CE. Improving the Detection of Heroin Use by Using Papaverine Metabolites as Biomarkers. SOFT Meeting, Minneapolis, MN, October. 2018.
- Nanco CR, Poklis JL, Wolf CE, Detection of Propylene Glycol and Glycerol in Urine as Potential Biomarkers of "Vaping". SOFT Meeting, Minneapolis, MN, October. 2018.
- Wolf CE, Strategies in Maintaining an Analytical Edge on Emerging Drugs of Abuse, Waters Corporation MS Users' Meeting after ASMS, Columbia MD, July, 2018..
- Wolf CE. The Million Dollar Test, Department of Pathology, Virginia Commonwealth University. April 2018.
- Wolf CE, Poklis JL, Spencer CM, Heneks JA, Mott MD, Richard. H, Clevenger C. Liver "Doesn't DIE" or at least its enzymes, and other useful information discovered while evaluating The Effect of Sample Preparation Techniques on Matrix Effects and Absolute Recovery of Opiates in Liver Tissue Using UPLC-MS/MS, National Institute of Justice, Forensic Science Research and Development Symposium, American Academy of Forensic Sciences' 70th Annual Scientific Meeting, Seattle, WA, February 2018.
- Spencer CM, Heneks JA, Poklis JL, Wolf CE. The Effect of Sample Preparation Techniques on Matrix Effects and Absolute Recovery of Opiates in Liver Tissue Using Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS) Part I, American Academy of Forensic Sciences' 70th Annual Scientific Meeting, Seattle, WA, February 2018.
- Heneks JA, Spencer CM, Poklis JL, Wolf CE. The Effect of Sample Preparation Techniques on Matrix Effects and Absolute Recovery of Opiates in Liver Tissue Using Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS) Part II, American Academy of Forensic Sciences' 70th Annual Scientific Meeting, Seattle, WA, February 2018.

- Wolf CE, Dempsey SK, Poklis JL, Stability of Laboratory Prepared Quality Control Materials and the Analysis of Commercially Available Brownies, Joint SOFT-TIAFT Meeting, Boca Raton, FL, Jan. 2018.
- Poklis JL, Cooper AC, Dempsey SK, Analysis of Mixed Fruit Chews Medibles Containing THC, Joint SOFT-TIAFT Meeting, Boca Raton, FL, Jan. 2018.
- Dempsey SK., Poklis JL, Sweat K, Cumpston K, Wolf CE. Acute toxicity from intravenous use of the tricyclic antidepressant tianeptine. Joint SOFT-TIAFT Meeting, Boca Raton, FL, Jan. 2018.
- Nanco CR, Ngo A., Poklis JL, Wolf CE, Detection of Noscapine and Papaverine as Heroin Biomarkers in Pain Management Compliance Testing, Joint SOFT-TIAFT Meeting, Boca Raton, FL, Jan. 2018.
- Royals JM, Poklis JL, Turner JBM, Wolf CE, Peace MR, Ethanol in E-liquids: Concentration in 35 Formulations by Headspace Gas Chromatography with Flame Ionization Detector (HS-GC-FID) and the Impact on the Temperature of the E-cigarette Coil, Joint SOFT-TIAFT Meeting, Boca Raton, FL, Jan. 2018.
- Patterson JL, Poklis JL, Halquist M, Hindle M, Turner JBM, Wolf CE, Poklis A, Peace MR, Evaluation of Voltage, Resistance, and Glycol Ratio on Glycol and Nicotine Size Distribution Within an Aerosol Produced by an Electronic Cigarette, Joint SOFT-TIAFT Meeting, Boca Raton, FL, Jan. 2018.
- Sweat K, Wills B, Rose SR, Wolf C, Cumpston K. Respiratory Depression After Intentional Misuse of Tianeptine Requiring Prolonged Naloxone Treatment. North American Congress of Clinical Toxicology- Annual Meeting, Vancouver, BC. October 2017. *Clinical Toxicology*, 2017;55(7):768.
- Wolf CE, Toxicology Testing, Fall Enforcement Training, Virginia Department of Health Professions, October 2, 2017.
- Wolf CE, Pain Management from the Laboratory Perspective, American Academy of Professional Coders, 2017 Virginia State Conference, September 29, 2017.
- Wolf CE. Nymphaea Caerulea, Blue Lotus Flower, New Ways to Recreationally use Ancient Drugs. Seminar, Waters Corporation, Springfield, VA, June 14, 2017.
- Wolf CE. The Status of Marijuana "Chewzng your Dope", Department of Pathology, Virginia Commonwealth University. April 28, 2017.
- Wolf CE. Pain Management Compliance Drug Testing. Aches and Pains of Compliance Testing in the Commonwealth. Department of Neurosurgery, University Health Services Professional Education Programs (UHS-PEP) of VCU Health, April 13, 2017.
- Wolf CE. Urine Drug Screening Interpretation. Interprofessional Education on Opioid Prescribing. VCU School of Medicine. Richmond, VA, Nov. 22, 2016.
- Wolf CE, Poklis JL, Poklis A. Havoc™ in the Kitchen, Baking to get Baked, Preparation of Quality Control Materials. Society of Forensic Toxicologists Meeting, Dallas, TX, October. 2016.
- Chun HJ, Wolf CE, Poklis JL, Poklis A. Brain on Alcohol: Method for Alcohol Analysis in Brain Tissue by Headspace Gas Chromatography with Flame Ionization Detector (HSGC-FID). Society of Forensic Toxicologists Meeting, Dallas, TX, October. 2016.
- Dempsey SK, Wolf CE, Poklis JL, Poklis A. Molly, Daffy, and Kiddy-Coke Walk into a Rave: A Case of Polysubstance Overdose. Society of Forensic Toxicologists Meeting, Dallas, TX, October. 2016.
- Nascimento R, Poklis JL, Ritter JK, Wolf CE, Poklis A. Knowing Your B's and C's: The Identification of 25BNBOME and 25C-NBOME Biomarkers. Society of Forensic Toxicologists Meeting, Dallas, TX, October. 2016.
- Nanco CR, Samano K, Poklis JL, Wolf CE, Poklis A. Disposition of the Synthetic Cannabinoid CP47,497 in the Mouse. Society of Forensic Toxicologists Meeting, Dallas, TX, October. 2016.
- Patterson JL, Poklis JL, Stone JW, Hindle M, Wolf CE, Turner JB, Poklis A, Peace MR. Evaluation of the Nicotine Particle Size in an Aerosol formed by an Electronic Cigarette. Society of Forensic Toxicologists Meeting, Dallas, TX, October. 2016.
- Wolf CE, Hieger MA, Willis BK, Poklis A. A Crazy Mini-Heroin Epidemic in Richmond, Virginia. American Academy of Forensic Sciences 65th Annual Meeting. Las Vega, NV. February. 2016.
- Wolf CE, Poklis, JL, Cumpston K, Moss M, Poklis A. Molly Mosquito Detection in Two Cases of Designer Ecstasy Use. Society of Forensic Toxicologists Meeting, Atlanta, GA, October. 2015.
- Baird T, Poklis J, Stone JW, Butler KE, Wolf CE, Smith N, Turner JB, Poklis A, and Peace MR. Characterization of Electronic Cigarette Refill Formulations and Dose Capture of Nicotine in Aerosol by DART-AccuTOF MS, HPLC-MS/MS and GC-MS. Society of Forensic Toxicologists Meeting, Atlanta, GA, October. 2015.
- Dempsey SK, Poklis JL, Ritter JK, Wolf CE, Poklis A. Identification of Fifteen Metabolites of the Designer Hallucinogen 25I-NBOME in Human Urine. Society of Forensic Toxicologists Meeting, Atlanta, GA, October. 2015.

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- Wolf CE. HIPS and Bombs (NBOMe) Riding the Wave of New Designer Drugs. Richmond Society for Clinical Laboratory Sciences. Richmond, VA, March 2015.
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- Wolf CE. HIPS and Bombs (NBOMe): Testing for the Wave of New Designer Drugs. Richmond Chromatography Discussion Group, Richmond, VA. October. 2014.
- Wolf CE. HIPS and Bombs (NBOMe): Riding the Wave of New Designer Drugs. Waters Corporation MS Users' Meeting at ASMS, Baltimore MD, June 2014.
- Charles J, Poklis JL, Wolf CE, Stromberg P, Cumpston KL, Poklis A. The Identification and Quantification of 25I-NBOMe in two Overdose Cases by High Performance Liquid Chromatography Tandem Mass Spectrometry Method. Society of Forensic Toxicologists Meeting, Orlando, FL, October. 2013.
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- ElJordi OI, Wolf CE, Poklis JL, Poklis A. Evaluation of the Chemical Derivatization of Nine Different Cathinone Bath Salts Analogs. American Academy of Forensic Sciences 65th Annual Meeting. Washington, DC. February. 2013.
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- Dooley PN, Wolf CE, Poklis A. Improved Method for the Analysis of Tramadol and its N and O desmethyl Metabolites in Urine by GCMS. Society of Forensic Toxicologists Meeting. Richmond, VA. October. 2010.
- Gesseck A, Wolf CE, Poklis A. The Availability of Fentanyl from Transdermal Patches in Gastric and Oral Fluid. Society of Forensic Toxicologists Meeting. Richmond, VA. October. 2010.
- Haggerty BJ, Poklis JL, Wolf CE, Wise LE, Wiebelhaus, Lichtman AH, Poklis A. Detection of Cannabimimetic Compounds in Mice Blood after Exposure to "Buzz" Smoke. Society of Forensic Toxicologists Meeting. Richmond, VA. October. 2010.
- Aiken MJ, Wolf CE, Poklis A. Mother's Little Helper: Method Development for the Analysis of Benzodiazepines by LCMS. Educational Research Award, Society of Forensic Toxicologists Meeting. Oklahoma City, OK. October. 2009.
- Bourland J, Gesseck AM, Wolf CE, Poklis A. Evaluation of the Lin-Zhi International Immunoassay for the Detection of Buprenorphine and Norbuprenorphine in Urine. Society of Forensic Toxicologists Meeting. Oklahoma City, OK. October. 2009.
- Wolf CE. The Aches and Pains of Pain Management Testing in the Laboratory. Richmond Society for Clinical Laboratory Sciences. Richmond, VA, September. 2009.
- Kester-Florin SJ, Wolf CE, Poklis A. Development and Validation of a LC/MS Method for the Determination of Guanfacine in Urine. American Academy of Forensic Sciences 61st Annual Meeting. Denver, CO. February. 2009.
- Bourland J, Secor C, Wolf CE, Poklis A. Evaluation of the Lin-Zhi International immunoassay for the Detection of Methadone in Urine. Society of Forensic Toxicologists Meeting. Phoenix, AZ. October. 2008.
- Carney S, Wolf CE, Moak LD, Poklis A. Comparison of Two Enzyme Immunoassays for the Detection of the Cocaine Metabolite Benzoyllecgonine in Urine. Society of Forensic Toxicologists Meeting. Phoenix, AZ. October. 2008.
- DeLong GT, Wolf CE, Poklis A. Cannabichromene Potentiates the Antinociceptive Effect of $-\Delta^9$ Tetrahydrocannabinol. Society of Forensic Toxicologists Meeting. Phoenix, AZ. October. 2008.
- Haglock CJ, Wolf CE, Poklis A. A Novel Method for the Determination of Guanfacine in Urine by GC/MS. Society of Forensic Toxicologists Meeting. Phoenix, AZ. October. 2008.
- Wolf CE, Whitlow KS, Poklis A. Determination of Guanfacine (Tenex) in a Case of Munchausen by Proxy. American Academy of Forensic Sciences 60th Annual Meeting. Washington DC. February. 2008.
- Guckert BK, Backer RC, Wolf CE, Poklis A. Evaluation of the Lin-Zhi International Benzodiazepine Enzyme Immunoassay for the Detection of Benzodiazepines and Their Metabolites in Urine. American Academy of Forensic Sciences 60th Annual Meeting. Washington DC. February. 2008.
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- Wolf CE, Rose SR, Poklis A. Case Report: The Use of the Herbicide Diquat and its possible involvement in a poisoning. Society of Forensic Toxicologists Meeting. Durham, NC. October. 2007.
- DeLong GT, Wolf CE, Poklis A. Cannabichromene exhibits Cannabinoid activity in the mouse tetrad. Society of Forensic Toxicologist Meeting, Durham, NC. October. 2007.
- Monteran R, Wolf CE, Backer R, and Poklis A. Evaluation of the Lin-Zhi International Propoxyphene Enzyme Immunoassay for the Detection of Propoxyphene and Norpropoxyphene in Urine. Society of Forensic Toxicologists Meeting. Durham, NC. October. 2007.
- Poklis A, Wolf CE. Toxicology Laboratory Exercises. The 13th Forensic Science Educational Conference, Teaching Forensic Science: Behind the Scenes. Co-Sponsored by the American Academy of Forensic Science and Court TV. Virginia Commonwealth University & the Virginia Department of Forensic Science, Richmond, VA. July 2007.
- Wolf CE, Drago M, Poklis A. Incidence of Drugs of Abuse in Meconium Testing Program. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Washington, DC. May 2007.
- Tucker AA, Wolf CE, Poklis A. Extraction Efficiency of Amphetamines from Blow Fly (*Phormia regina*) Larvae. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Washington, DC. May 2007.
- Owens A, Wolf CE, Poklis A. Extraction Efficiency of Amphetamines and Methylenedioxyamphetamines in Neutral Body Fat. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Washington, DC. May 2007.

- Garrett W, Wolf CE, Backer R, Poklis A. Evaluation of the Lin-Zhi International Oxycodone Enzyme Immunoassay for the Detection of Oxycodone and Hydrocodone in Urine. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Washington, DC. May 2007.
- DeLong GT, Wolf CE, Poklis A. Validation of a Mass Spectrometry Method for Determination of Cannabichromene in Blood and Brain Specimens. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Washington, DC. May 2007.
- Wolf CE. The Chromatographic Detection of Drugs of Abuse in DUI/D Blood Samples, What Drugs are Really Present. Twenty-Forth Triangle Chromatography Symposium and Instrument Exhibit. Triangle Chromatography Discussion Group of the North Carolina Section of the American Chemical Society. North Carolina State University, Raleigh, NC. May 2007.
- DeLong GT, Wolf CE, Poklis A. Validation of a Mass Spectrometry Method Identifying Cannabinoids in Marijuana. 46th Navy Occupational Health & Preventative Medicine Conference, Navy Environmental Health Center, Hampton Roads, VA. March 2007.
- Wolf CE, Monteran RJ, Poklis A. Evaluation of the Lin-Zhi International Opiate Enzyme Immunoassay for the Detection of Opiates in Urine. American Academy of Forensic Sciences Meeting, Austin, TX, February 2007.
- Wolf CE. The Chromatographic Detection of Drugs of Abuse in Whole Blood. Richmond Chromatography Discussion Group, Richmond, VA. October. 2006.
- Wolf CE, Poklis A. Prevalence of Marijuana in Second Sample Blood Specimens from DUID Arrests in the Commonwealth of Virginia, 2001 – 2002. Society of Forensic Toxicologists Meeting, Austin, TX. October. 2006.
- Wolf CE, Poklis A. Prevalence of Drugs in Expanded Second Sample Blood Specimens from DUID Arrests in the Commonwealth of Virginia, 2001 – 2002. Society of Forensic Toxicologists Meeting, Austin, TX. October. 2006.
- Peace MR, Orebaugh L, Tarnai LD, Wolf CE, and Poklis A. Evaluation of the Lin-Zhi International Cannabinoid Enzyme Immunoassay for the Detection of Marijuana Cannabinoid Metabolites in Urine. Society of Forensic Toxicologists Meeting, Austin, TX. October. 2006.
- Tarnai LD, Orebaugh L, Peace MR, Wolf CE, and Poklis A. Comparison of Three Enzyme Immunoassays for the Detection of Marijuana Cannabinoid Metabolites in Urine. Society of Forensic Toxicologists Meeting, Austin, TX. October. 2006.
- Wolf CE, Poklis A. Comparison of FPIA and Emit Immunoassay Reagents for the Screening of DUID Whole Blood Samples for the Presence of Marijuana. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Richmond, VA. May 2006.
- Wolf CE, Poklis A. The Prevalence of Alcohol and Drugs in DUI/DUID Second Samples in Virginia, 1990 - 2002. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Richmond, VA. May 2006.
- Perusse K, Delaney C, Wolf C, Poklis A, and Pearson J. Correlation of Tetrahydrocannabinol in Evidentiary and Second Sample DUI/D Blood Samples. Mid-Atlantic Association of Forensic Scientists Annual Meeting, Richmond, VA. May 2006.
- Wolf CE, Poklis A. A Rapid HPLC Procedure for Analysis of Analgesic Pharmaceutical Mixtures for Quality Assurance and Drug Diversion Testing. J Anal Tox, 29(7), 711-714, 2005.
- Wolf CE. Workshop: Operations of a Forensic Toxicology Laboratory, Shimadzu Scientific Instruments, Inc. Columbia, MD. April 4-5, 2006.
- Wolf CE, Poklis A. Evaluation of FPIA & Emit Reagents for Screening Whole Blood Samples for Marijuana. Society of Forensic Toxicologists Meeting, Nashville, TN. October. 2005.
- Wolf CE, Poklis A. Pharmaceutical Identification and Quality Control Testing at a Major Medical Center. Joint The International Association of Forensic Toxicologists and Society of Forensic Toxicologists Meeting, Washington, DC, August 2004. J Anal Tox, 29(6), 461-462, 2005.
- Wolf CE, Poklis A. Second Sample Analysis of Blood from DUID Arrests in the Commonwealth of Virginia; Demographics, Drug Findings, and Testing Scheme under the Revised Second Sample Testing Program. Society of Forensic Toxicologists Annual Meeting, Portland, Oregon, October 2003.
- Wolf CE, Poklis A. Drug Diversion Testing at a Major Medical Center. Society of Forensic Toxicologists Annual Meeting, Portland, Oregon, October 2003.
- Holstege CP, Ferguson JD, Wolf CE, Baer AB, Poklis A. Analysis of Moonshine for Contaminants. SAEM Annual Meeting, Boston, Massachusetts, May, 2003.
- Wolf CE, Poklis A. Directed Second Sample Analysis of Blood from DUID Arrests in the Commonwealth of Virginia, 1990 - 1999. I. Demographics and Drug Findings. II. Comparison of the Results of Evidentiary Sample and Second Sample Testing. Society of Forensic Toxicologists Annual Meeting, Dearborne, Michigan, October 2002.
- Wolf CE, Poklis A. Directed Second Sample Analysis of Blood from DUID Arrests in the Commonwealth of Virginia, 1990 - 1999. I. Demographics and Drug Findings. Watts Research Poster Symposium, Medical College of Virginia Campus at VCU, October 2002.

Wolf CE, Crooks CR, Poklis A. Rapid Gas Chromatographic Procedure for the Determination of Topiramate in Serum, Society of Forensic Toxicologists Annual Meeting, Salt Lake City, Utah, October 1997.

Ferrell M, Wolf C, Wood M, Ellenbogen K, Gilligan D. The Levels of Residual Ethylene Oxide on Electrophysiology Catheters Undergoing Resterilization. NASPE 17th Annual Meeting, Seattle Washington, May 1996.

Burns LA, Sikorski EE, Wolf C, Saady J, Munson AE. Role of Gallium and/or Arsenic in Gallium Arsenide induced immunosuppression. Society of Forensic Toxicologists Annual Meeting, Miami Beach, Florida, February 1990.

CONTINUING EDUCATION ACTIVITIES:

- September 2019 Conference: 2019 Back to the Future: Moving Beyond Opioids for Chronic Pain Conference, VCU Health Continuing Medical Education, Norfolk, VA.
- November 2016 Workshop: Interprofessional Education on Opioid Prescribing, VCU School of Medicine, Richmond, VA.
- October 2016 Workshop: Medico-Legal Aspects of Medical Marijuana, Society of Forensic Toxicologists Meeting, Dallas, TX.
- August 2014 Workshop: Mass Spectrometry: New Applications in Forensic Toxicology. Waters Corporation. Beverly, MA.
- June 2014 MS Users' Group Meeting, Waters Corporation, ASMS Meeting, Baltimore MD,
- October 2013 Workshop: Co-Chairman and Presenter, Overview and Review of Forensic Toxicology. Society of Forensic Toxicologists Meeting. Orlando, FL.
- October 2008 Workshop: Co-Chairman and Presenter, Overview and Review of Forensic Toxicology. Society of Forensic Toxicologists Meeting. Phoenix, AZ.
- October 2008 Workshop: Pain Management and Addition. Society of Forensic Toxicologists Meeting. Phoenix, AZ.
- March 2007 Audioconference: Maximize High Performance-The Key Ingredients: Feedback and Coaching. Clinical Laboratory Management Association Management Development Series.
- February 2007 Audioconference: Building a Climate for High Performance. Clinical Laboratory Management Association Management Development Series.
- January 2007 Audioconference: Building Organizational Capability: Harnessing Your In-House Talent. Clinical Laboratory Management Association Management Development Series.
- October 2006 Workshop: Standardized Field Sobriety Tests – Principles and Practices, presented by the Society of Forensic Toxicologists, Inc. Austin, Texas.
- October 2006 The Application of Hair as an Alternate Matrix for Forensic Applications, presented by the Society of Forensic Toxicologists, Inc. Austin, Texas.
- October 2005 Workshop: Co-Chairman, The Postmortem Blood Drug Screen, presented by the Society of Forensic Toxicologists, Inc. Nashville, Tennessee.
- May 2005 Bayer Advia 1200 Instrument Operations Class, presented by Bayer Diagnostics Corp., Tarrytown, New York.
- September 2004 Moderator: Poster Session, Clinical and Environmental Toxicology, presented by the Society of Forensic Toxicologist, Inc. Washington, D.C.
- August 2004 Workshops: The Toxicological Hazards of Clandestine Methamphetamine Synthesis; Poisons and Poisoners - What a Toxicologist needs to know; Advanced Mass Spectrometry Theory and Interpretation; Chemical Terrorism for Forensic Toxicologists, presented by the U.S. Department of Justice, Federal Bureau of Investigation, FBI Laboratory Symposium on Forensic Toxicology, Washington, DC.
- March 2004 Workshop: Dangerous Good Shipping, presented by Office of Environmental Health and Safety, Virginia Commonwealth University, Richmond, Virginia.
- October 2003 Workshop: Toxicology in the Emergency Room, presented by Society of Forensic Toxicologists, Inc. Portland, Oregon.
- October 2001 Workshop: The Impact of Daubert, Joiner, Kumho on Testifying as a Forensic Toxicologist, presented by Society of Forensic Toxicologists, Inc. New Orleans, Louisiana.

April 1998, 2001 GC & GC/MS Chromatography Seminar Series, presented by Varian Associates, Sugarland, Texas and Restek Corporation, Bellefonte, Pennsylvania.

April 1996 Hazardous Waste Seminar: Principles of Identification, Transportation and Incineration, presented by Rollins Environmental, Inc., Wilmington, Delaware.

July 1995 Solid Phase Extraction Techniques for Clinical & Forensic Chemists, presented by United Chemical Technologies, Inc., Bristol, Pennsylvania.

June 1995 Open Forum II, HPLC Workshop, presented by MAC-MOD Analytical Inc., Chadds Ford, Pennsylvania.

April 1995 Capillary Chromatography Training Seminar, presented by Restek Corporation, Bellefonte, Pennsylvania.

October 1994 Practical Applications of Quality Control in the Clinical Laboratory. & A Practical Approach for Design of a Laboratory Quality Assurance Program, presented by Bio-Rad Laboratories, Hercules, California.

December 1993 Supervisory Development Certificate, Office of Training and Development, Human Resource Division, Virginia Commonwealth University, Richmond, Virginia.

June 1993 Professional Practice in Toxicology: A Review, sponsored by American Association of Clinical Chemists, Cincinnati, Ohio.

April 1992 Advanced REMEDI[®] Operation and Maintenance Training Session, presented by Bio-Rad Laboratories, Hercules, California.

1991 - 1992 Annual Environmental Testing Seminar, presented by Varian Associates, Sugarland, Texas.

November 1990 Pesticides in the Next Decade: The Challenges Ahead, Third National Research Conference on Pesticides, sponsored by Virginia Polytechnic Institute & State University, Richmond, Virginia.

1988 - 1995 Annual Atomic Spectroscopy Workshops, presented by Varian Associates, Sugarland, Texas.