**MICHELLE R. PEACE, Ph.D.**

***Curriculum Vitae***

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# EDUCATION

Medical College of Virginia at Virginia Commonwealth University, Richmond, VA  2005

 Course of Study  Forensic Toxicology, PhD

 Advisor  Alphonse Poklis, PhD, Director of the Clinical and Forensic Toxicology Laboratories

**George Washington University, Washington, D.C.**  **1996**

 Course of Study  Forensic Science, Masters

**Wittenberg University, Springfield, OH**  **1991**

 Course of Study  Chemistry Major/Biology Minor, Bachelor

# ACADEMIC APPOINTMENTS

**Virginia Commonwealth University, Richmond, VA**

**August 2017 – Present  Associate Professor, tenured**

August 2007 – 2010, January 2015 – August 2017  Associate Chair

January 2011 – December 2014  Chair, Department of Forensic Science

September 2001 – August 2005 and Fall ‘06  Instructor, Adjunct Professor

# GRANTS

**National Institute of Justice, 2019-MU-MU-0007.** Research and Development in Forensic Science for Criminal Justice Purposes, *Through the Looking Glass: Abuse of the Evolving Electronic Cigarette and the Impact of Vaping Ethanol in the Evaluation of Impairment*. **Award: $1.2M**, 2 years, **PI: Michelle Peace**, Key Personnel: Alison Breland, Matthew Halquist, Justin Poklis

**National Institute of Justice,** 2018-75-CX-0036, Research and Development in Forensic Science for Criminal Justice Purposes, *Through the Looking Glass: Abuse of the Evolving Electronic Cigarette and the Impact of Vaping Ethanol in the Evaluation of Impairment*, Award $518,000, 18 months, PI: Michelle Peace, Co-PIs: Alison Breland, Matthew Halquist, Justin Poklis

**VCU, Division of Community Engagement,** Service Learning Partnership Awards,*STEM in Out of School Time and Extracurricular Activities*. Award: $2500. Co-PIs: Michelle R. Peace and Jo Murphy

**National Institute of Justice,** 2016-DN-BX-0150 (1.5 years), Research and Development in Forensic Science for Criminal Justice Purposes, *Chasing the E-Cigarette Dragon: Characterizing the Evolution and Impact of Design and Content*, Award: $139,233. PI: Michelle R Peace, Co-PIs: Justin Poklis, Joseph Turner, Ph.D., And Alphonse Poklis, Ph.D.

**National Institute of Justice,** 2014-R2-CX-K010 (3 years), Research and Development in Forensic Science for Criminal Justice Purposes, *Characterization and Abuse of Electronic Cigarettes: The Efficacy of “Personal Vaporizers*, Award: $339,126, PI: Michelle R Peace, Co-PIs: Justin Poklis, Joseph Turner, Ph.D., Alphonse Poklis, Ph.D.

**Middle School Renaissance 2020** “Forensic Science Application to Critical Thinking Skills (F.A.C.T.S.) in Richmond Public School Middle Schools”, Award: $5000, PI: Michelle R. Peace, Co-PI: Jo Murphy

**Virginia Commonwealth University Community Engagement Grant**, “Enhancing Biotechnology and Forensic Science Instruction in the K-12 Classroom”, $20,000 for 2008-09, **Co-PI** with William Eggleston, PhD.

Contribution to this grant was to develop lessons and assemble laboratory kits for

teaching scientific principles using forensic science at the elementary school and high school levels. Three kits were assembled with enough supplies and exercises for 15-20 hours of instruction and activity in each kit. The kits were devised to implement specific Virginia Standards of Learning requirements.

**Virginia Commonwealth University Grant-in-Aid, 2001**. “Forensic Entomotoxicology: A study in the deposition of drugs into larvae”. Award: $1500.

# PUBLICATIONS

1. Reveil L, Halquist M, Poklis JL, Peace MR. *A determination of the aerosolization efficiency of drugs of abuse in a eutectic mixture with nicotine in electronic cigarettes.* Drug Testing and Analysis, July 18, 2022. [**https://doi.org/10.1002/dta.3343**](https://doi.org/10.1002/dta.3343)
2. Holt AK, Poklis, JL, Peace MR. *The History, Evolution, and Practice of Cannabis and E-cigarette Industries Highlight Necessary Public Health and Public Safety Considerations.* Accepted with Revisions. Journal of Safety Research
3. Holt AK, Poklis JL, Peace MR. *Δ8-THC, THC-O Acetates and CBD-di-O Acetate: Emerging Synthetic Cannabinoids Found in Commercially Sold Plant Material and Gummy Edibles.* Journal of Analytical Toxicology, 2022, bkac036, <https://doi.org/10.1093/jat/bkac036>.
4. Zughaibi T, Furton KG, Holness H, Peace MR. *Measuring Odor Transport of Narcotic Substances using DART-AccuTOF.* Forensic Sciences 2(1), 262-271. <https://doi.org/10.3390/forensicsci2010020>
5. Baird TR, Akbarali HI, Dewey WL, Elder H, Kang M, Marsh SA, Peace MR, Poklis JL, Santos EJ, Negus SS. Opioid-Like Adverse Effects of Tianeptine in Male Rats and Mice. Psychopharmacology. 2022 Feb 24. [DOI: 10.1007/s00213-022-06093-w](https://link.springer.com/article/10.1007/s00213-022-06093-w)
6. Holt, AK, Poklis JL, Peace MR. *A Retrospective Analysis of the Chemical Constituents in Regulated and Unregulated E-cigarette Liquids.* Frontiers in Chemistry, October 2021. <https://doi.org/10.3389/fchem.2021.752342>
7. Holt AK, Poklis JL, Cobb CO, Peace MR. *The Identification of Gamma-butyrolactone in JUUL Liquids.* Journal of Analytical Toxicology. 45(8) 892-900, October 2021. <https://doi.org/10.1093/jat/bkab067>
8. Gesseck AM, Poklis JL, Nanco CR, Hendricks-Munoz KD, Wolf CE, Peace MR. *The Analysis of Tramadol in Matched Infant Oral Fluid, Urine, and Mother’s Breast Milk.* Journal of Analytical Toxicology 17;45(8):840-846, September 2021. <https://doi.org/10.1093/jat/bkab055>
9. Baird TR, Davies R, Glennon R, Peace MR, Negus S. *A Strategy to Prioritize Emerging Drugs of Abuse for Analysis: Abuse Liability Testing Using Intracranial Self Stimulation (ICSS) in Rats and Validation with a-Pyrrolidinohexanophenone (a-PHP).* Emerging Trends in Drugs, Addiction, and Health. Vol 1, 2021, 100004. https://doi.org/10.1016/j.etdah.2021.100004
10. Karin K, Poklis JL, Peace MR. *Evaluation of Rapid Extraction Techniques for Pharmacologically Active Ingredients in Chinese Herbal Anticonvulsant Medicines by Time of Flight Mass Spectrometry.* Analytical Methods, Issue 7, 2021. Advanced article. [DOI: 10.1039/D0AY02015J](https://pubs.rsc.org/en/content/articlelanding/2021/AY/D0AY02015J#!divAbstract)
11. Mulder HA, Stewart JB, Blue I, Krakowiak R, Patterson J, Karin K, Royals J, Dupont A, , Forsythe K, Poklis JL, Poklis A, Butler S, Turner JBM, Peace MR. *Characterization of E-cigarette coil temperature and toxic metal analysis by Infrared Temperature Sensing and Scanning Electron Microscopy- Energy Dispersive X-Ray.* Inhalation Toxicology 2020;32 (13-14)447-455. DOI: 10.1080/08958378.2020.1840678
12. Gesseck AM, Poklis JL, Wolf CE, Xu J, Bashir A, Hendricks-Munoz KD, Peace MR. *A Study Evaluating the Efficacy of an Ad Hoc Hospital Collection Device for Fentanyl in Infant Oral Fluid.* J of Analytical Toxicology, 2020, June. https://doi.org/10.1093/jat/bkaa069
13. Peace MR, Smith ME, Poklis JL. *The Analysis of Commercially Available Natural Products Recommended for use in Electronic Cigarettes. Rapid Communications in Mass Spectrometry.* 2020;34(11):e8771. doi:10.1002/rcm.8771
14. Krakowiak RI, Poklis JL, Poklis A, Peace MR. *The Analysis of E-liquids Containing Methamphetamine Using High Resolution Mass Spectrometry and Gas Chromatography Mass Spectrometry.* Journal of Analytical Toxicology, 2019, Oct 43(8):592-599.

https://doi.org/10.1093/jat/bkz067

1. Mulder HA, Patterson J, Poklis JL, Peace MR. The Effect of Electronic Cigarette User Modifications and E-liquid Adulteration on the Particle Size Profile of an Aerosolized Product. Nature: Scientific Reports ePub (2019).9:10221. [doi.org/10.1038/s41598-019-46387-2](https://www.nature.com/articles/s41598-019-46387-2)
2. Poklis JL, Mulder HA, Peace MR. The Unexpected Identification of the Synthetic Cannabinoid 5F-ADB and Dextromethorphan in Commercial Cannabidiol E-liquids. Forensic Science International. Epub: 2018, Nov 1 [DOI: 10.1016/j.forsciint.2018.10.019](https://www.sciencedirect.com/science/article/pii/S0379073818307047?via%3Dihub) . Article [Metrics](https://plu.mx/plum/a/?doi=10.1016%2Fj.forsciint.2018.10.019&theme=plum-sciencedirect-theme&hideUsage=true&display-tab=summary-content)
3. Peace MR, Mulder HA, Baird TR, Butler KE, Friedrich A, Stone JW, Turner JBM, Poklis JL, Poklis A. Evaluation of Nicotine and the Components of e-Liquids Generated from e-Cigarette Aerosols.Journal of Analytical Toxicology, 2018, Oct 1;42 (8):537-543. [DOI:10.1093/jat/bky056](https://doi.org/10.1093/jat/bky056).
4. Poklis JL, Wolf, CE, Peace MR. 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 Oct;9(10):1637-1640 [DOI: 10.1002/dta.2193](https://doi.org/10.1002/dta.2193).
5. Poklis JL, Mulder HA, Halquist MS, Wolf CE, Poklis A, Peace MR. The Blue Lotus Flower (Nymphea Caerulea) Resin Used in a New Type of Electronic Cigarette, the Re-buildable Dripping Atomizer. Journal of Psychotropic Drugs 2017 Jul-Aug;49(3);175-181. [DOI: 10.1080/02791072.2017.1290304](https://www.tandfonline.com/doi/full/10.1080/02791072.2017.1290304). Article [Metrics](https://www.tandfonline.com/doi/abs/10.1080/02791072.2017.1290304?journalCode=ujpd20#metrics-content)
6. Peace MR, Krakowiak RI, Wolf CE, Poklis A, Poklis JL. Identification of MDMB-FUBINACA in Commercially Available E-liquid Formulations for Use in Electronic Cigarettes. Forensic Science International 2017 Feb;271:92-97, [DOI: 10.1016/j.forsciint.2016.12.031](https://www.sciencedirect.com/science/article/pii/S0379073816305631?via%3Dihub). Article [Metrics](https://plu.mx/plum/a/?doi=10.1016%2Fj.forsciint.2016.12.031&theme=plum-sciencedirect-theme&hideUsage=true&display-tab=summary-content)
7. Peace MR, Butler KE, Wolf CE, Poklis JL, Poklis A. Evaluation of Two Commercially Available Cannabidiol Formulations for use in Electronic Cigarettes, Frontiers in Pharmacology, 2016 Aug 29;7:279. [DOI: 10.3389/fphar.2016.00279](https://www.frontiersin.org/articles/10.3389/fphar.2016.00279/full). Article [Metrics](http://loop-impact.frontiersin.org/impact/article/210223#totalviews/views)
8. Peace MR, Stone J, Poklis JL, Turner JBM, Poklis A. Analysis of a Commercial Marijuana e-Cigarette Formulation. Journal of Analytical Toxicology, 2016 June 40(3);374-378. [DOI: 10.1093/jat/bkw021](https://academic.oup.com/jat/article/40/5/374/1750488). Article [Metrics](https://oxfordjournals.altmetric.com/details/6568516)
9. Peace MR, Baird T, Poklis JL, Wolf CE, Smith N, Turner JBM, Poklis A. Concentration of

Nicotine and Glycols in 27 E-Cigarette Formulations. Journal of Analytical Toxicology, 2016 July 40(6);403-407. [DOI: 10.1093/jat/bkw037](https://academic.oup.com/jat/article/40/6/403/2237800). Article [Metrics](https://oxfordjournals.altmetric.com/details/7342508)

1. Poklis JL, Mohs A 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). Journal of Analytical Toxicology, 2016 Sept;40(8);606-618 . [DOI: 10.1093/jat/bkw065](https://academic.oup.com/jat/article/40/8/608/2450718).Article [Metrics](https://oxfordjournals.altmetric.com/details/10150516)
2. Poklis JL, Raso SA, Alford K, Poklis A, Peace MR. A Direct Analysis in Real Time AccuTOFTM Mass Spectrometry (DART-MS) Method for the Analysis of 25I-NBOMe and Other Dimethoxyphenyl-N-[(2-methoxyphenyl) methyl]ethanamine) Derivatives. Journal of Analytical Toxicology 2015 October;39(8):617-23. [DOI: 10.1093/jat/bkv073](https://academic.oup.com/jat/article/39/8/617/915405). Article [Metrics](https://oxfordjournals.altmetric.com/details/4523072)
3. Peace MR, Tarnai LD. Performance Evaluation of Three On-Site Adulterant Detection Devices which Qualitatively Assess the Integrity of Urine Specimens Collected for Drugs-of-Abuse Testing. *J. Anal. Toxicol.* 2002 Oct;**26:** 464-470
4. Peace MR, Tarnai LD, Poklis JL, Poklis A. An Evaluation of the OnTrak Testcup®-*er* On-Site Drug Testing Device to Qualitatively Determine the Presence of Drugs of Abuse in Urine Specimens. *J. Anal. Toxicol.* 2002 Oct;26: 500-503
5. Peace MR, Tarnai LD, Poklis A. Performance Evaluation of 4 On-Site Drug Testing Devices for Detection of Drug of Abuse in Urine.  *J. Anal. Toxicol.* 2000 Oct*;*24: 589-594

# SELECTED PRESENTATIONS

1. Mustafa M (presenter), Karin K, Poklis J, Dempsey S, Lee D, **Peace MR**, Lichtman A. ∆8-THC is Equipotent to ∆9-THC in a Mouse Model of Cannabimimetic Effects. Annual Chemistry and Pharmacology of Drug Abuse Conference. Boston, MA. August 2022
2. **Holt AL**, Poklis JL, Peace MR. The Impact of Vaping Drugs Other Than Nicotine: From SFST to Workplace Drug Testing to Accidental Poisonings. International Association of Chemical Testing, Tucson AZ April 2022
3. Reveil L (presenter), Poklis JL, **Peace MR.** A determination of the aerosolization efficiency of drugs of abuse in a eutectic mixture with nicotine in e-cigarettes. Platform Presentation. Midwestern Association for Therapeutic Drug Monitoring and Toxicology, Annual Meeting, Kalamazoo, MI, April 2022
4. Baird TR (presenter), Carroll FI, Glennon RA, **Peace MR**, Negus SS. Intercranial self-stimulation inrats as a model of abuse potential and a predictive tool for threat assessment of emerging drugs. Platform Presentation. Society of Forensic Toxicologist, Annual Meeting, Nashville TN, 2021
5. Sales ER (presenter), Poklis JL, **Peace MR.** Analysis of ethanol aerosolized in an e-cigarette by HS GC-FID and an assessment of particle size distribution. Platform Presentation. Society of Forensic Toxicologist, Annual Meeting, Nashville TN, 2021
6. Holt AK (presenter), Breland A, Poklis JL, **Peace MR**. Preliminary data regarding the impact of vaping ethanol on the roadside field sobriety test in a clinical setting. Platform Presentation. Society of Forensic Toxicologist, Annual Meeting, Nashville TN, 2021
7. Reveil L (presenter), Poklis JL, **Peace MR.** A determination of the aerosolization efficiency of drugs of abuse in a eutectic mixture with nicotine in e-cigarettes. Platform Presentation. Society of Forensic Toxicologist, Annual Meeting, Nashville TN, 2021
8. Holt AK (presenter), Poklis JL, Rudy AK, Sawyer AN, Breland AB, Meredith SP, Scott KS, **Peace MR.** Survey of US Residents and the Use of E-cigarettes to Vape Drugs Other than Nicotine. Poster Presentation. Society of Forensic Toxicologist, Annual Meeting, Nashville TN, 2021
9. James M. (Jim) Burris1, Amanda Cadau2, Marisol Castaneto3, Marta Concheiro-Guisan4, Lindsay Glicksberg5, Helen H. Ha6, Erin L. Karschner7, Beth Olson8, Michelle R. Peace9, Kimberly L. Samano10, Michael L. Smith11, \***Andre Sukta12**, Courtney M. Wardwell. *The SOFT Professional Mentoring Program: To Mentee (or) Not to Mentee(or).* Platform Presentation. Society of Forensic Toxicologist, Annual Meeting, Nashville TN, 2021
10. Baird TR, Negus SS, **Peace MR**. Methcathinone: A Study on the Impact of Stereoactivity on Pharmacokinetics and Pharmacodynamics. PittCon, Virtual. March 2021
11. Holt AK, Poklis JL, Cobb CO, **Peace MR**. The Discovery of GBL in JUUL E-liquids. Online AAFS. February 2021.
12. Holt AK (presenter), Poklis JL, **Peace MR**. A 4-Year Systematic Analysis of Commercial E-liquids: The Evolution of G.R.A.S. to Inhaled Toxins. Poster. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 8th, 2020.
13. Poklis JL (presenter), Gholap V, Smith ME, **Peace MR**, Wolf CE, Williams GR, Halquist MS. Identification of Apomorphine and Nuciferine in an Herbal E-liquid, Extracted Resin and Electronic Cigarette Aerosols. Poster. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 8th, 2020.
14. Wieczorek B (presenter), Holt AK, Poklis JL, McGee Turner JB, **Peace MR**. The Structural Similarities and Differences between a Variety of Electronic Cigarette Pods and Devices

Contributing to the Possibility of Manipulation by Users. Poster. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 8th, 2020.

1. Nanco CR (presenter), Gesseck AM, Poklis JL, Xu J, Bashir A, Hendricks-Muñoz KD, **Peace MR**, Wolf CE. Got Tramadol. Method for the Determination of Tramadol and its Metabolites in Breast Milk. Poster. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 8th, 2020.
2. Gesseck AM (presenter), Poklis JL, Xu J, Bashir A, Hendricks-Muñoz KD, **Peace MR**. Analyzing drugs in neonates using oral fluid and urine to develop a prediction model for neonatal abstinence syndrome and assess the implications in forensic toxicology. Platform. Award Winner. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 9th, 2020.
3. Sales ER (presenter), Mulder HA, Poklis JL, McGee Turner JB, **Peace MR**. Ethanol bioavailability demonstrated by dose and particle size analysis of aerosols generated using ethanol-containing e-liquids. Platform. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 10th, 2020.
4. Miller SA (presenter), Poklis JL, Franklin R, Scott F, **Peace MR**. Development of an Untargeted Gas Chromatography-Mass Spectrometry (GC/MS) Method for the Detection of Drugs in Wastewater. Platform. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 23rd, 2020.
5. Holt AK (presenter), Adreance MA, Poklis JL, Eversole AN, Cobb CO, Eissenberg TE, **Peace MR**. Vaping in Schools: Analysis of Confiscated Vaping Devices from a Public-School System in Central Virginia. Platform. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 30th, 2020.
6. Baird TR (presenter), **Peace MR**, Negus S, A Strategy to Prioritize Emerging Novel Psychoactive Substances Using Intracranial Self-Stimulation (ICSS) in Rats. Platform. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 30th, 2020.
7. Glicksburg, L (presenter), Olson B, Samano K, Smith M, Wardwell C, **Peace MR.** The SOFT Professional Mentoring Program: The Inaugural Year. Platform. 50th Annual Meeting, Society of Forensic Toxicologist, Online SOFTember. Sept 9th, 2020.
8. Poklis JL (presenter), Gholap V, **Peace MR**, Wolf CE, Willams GR, Halquist MS. Blue Lotus Flower (Nymphea caerulea) in an Electronic Cigarette. Society for Research on Nicotine and Tobacco (SRNT), New Orleans, LA, March 2020.
9. **Peace MR** (presenter), Nigro D, Lavigne A, Venuti J, Poklis JL. The Lessons Learned in Teaching Forensic Toxicology from “Wet Lab” to “Lab Bench”. Accepted. American Academy of Forensic Sciences, February 2020.
10. Sales ER (presenter), Poklis JL, Turner JBM, Peace MR. Vaping in the fourth generation: A comparison of Nicotine Dose Capture in Different Forms of Concentrated Substances. Accepted. American Academy of Forensic Sciences, February 2020.
11. Poklis JL (presenter), Friedrich AK, Karin KN, Mulder HA, **Peace MR**. Unregulated and adulterated cannabidiol (CBD) products and their unexpected effects on an unsuspecting public. Carolina Cannabinoid Collaborative Conference 2019. Richmond VA. November 9, 2019.
12. Baird TR (presenter), **Peace MR**, Negus SS, Evaluation of the Abuse Potential of Methcathinone Using Intracranial Self-Stimulation in Rats. Accepted. Poster presentation at Society of Forensic Toxicologists, San Antonio, 2019.
13. Butler SN (presenter), Poklis JL, **Peace MR**. Simple, Rapid, and Accessible Detection of Ethanol in E-liquids by Fuel Cell BrAC Test. Poster presentation at Society of Forensic Toxicologists, San Antonio, 2019.
14. Connolly G (presenter), Somerville R, Mulder HA, Poklis JL, Wolf CE, Robertson L, Blank ML, Hoek J, **Peace MR**. Characterization of Nicotine, Glycols, and Ethanol in New Zealand E-liquids: Evidence of Ongoing Global Quality Control Issues. Poster presentation at Society of Forensic Toxicologists, San Antonio, 2019.
15. Gesseck AM (presenter), Poklis JL, Xu J, Bashir A, Henricks-Munoz KD, **Peace MR**. Detection of Fentanyl in the Oral Fluid of Infants. Poster presentation at Society of Forensic Toxicologists, San Antonio, 2019.
16. Karin KN, Poklis JL, Hutchings JW, **Peace MR**. The Development of Extraction Methods to Evaluate Pharmacologically Active Compounds in Anticonvulsive Chinese Herbal Medicines by AccTOF DART-MS. Poster presentation at Society of Forensic Toxicologists, San Antonio, 2019.
17. Poklis JL, Mulder HA, Butler SN, Miller SA, Friedrich A, **Peace MR** (presenter). Victims of the Consumer-driven Demands for the unregulated cannabis and hemp industries – Case studies of poisonings. Platform presentation at Society of Forensic Toxicologists, San Antonio, 2019.
18. Poklis JL, Edinboro L, Mulder HA, Butler SN, Miller SA, **Peace MR** (presenter). A Voice in the Wilderness: Unexpected Drugs Found in Unregulated Cannabidiol E-liquids. Accepted: The International Association of Forensic Toxicologists, Birmingham, UK, 2019.
19. Peace MR. “E-cigarettes Public Health and Criminal Justice Tangle: Bioavailability of Drugs of Abuse.” Platform presentation, NIJ Symposium, PittCon, Philadelphia PA, 2019.
20. Karin K (presenter), Poklis JL, Mustafa M, **Peace MR.** “Analysis of CBD products by Direct Analysis Real Time Time of Flight Mass Spectrometry (DART-MS) and Ultra High-Performance Liquid Chromatography Tandem Mass Spectrometry (UHPLC-MS/MS)”. Poster presentation at PittCon, Philadelphia PA, 2019.
21. Karin K (presenter), Poklis JL, Turner JBM, **Peace MR.** “Presumptive Analysis of Traditional Chinese Herbal Medicine from Two Sources by Direct Analysis Real Time Time of Flight Mass Spectrometry (DART-MS)”, Poster presentation at Pittcon, Philadelphia PA, 2019.
22. Povlick J (presenter), Poklis JL, Turner JBM, **Peace MR.** “Optimizing the Delivery of Opioids in an E-Cigarette Aerosol with the Development of a Eutectic Mixture”, Poster presentation at PittCon, Philadelphia PA, 2019.
23. Sales, E (presenter), Poklis JL, Turner JBM, **Peace MR.** “One device for all your vaping needs? Nicotine aerosolization in fourth generation electronic cigarettes”, Poster presentation at PittCon, Philadelphia PA, 2019.
24. Connolly G (presenter), Poklis JL, Blank ML, Hoek J, Robertson L, Somerville R, **Peace MR**. “Analysis of Nicotine Concentration in 22 E-liquids from New Zealand by UHPLC-MS/MS” Poster presentation at PittCon, Philadelphia PA 2019.
25. Sales E (presenter), Lambert C, Morel Y, Poklis JL, Turner JBM, **Peace MR**. “Chasing the Dragon: The Continual Evolution of E-Cigarettes” Poster presentation at Society of Forensic Toxicologists, Minneapolis MN, 2018.
26. Grzymowski J, Chen W, Bechtel Z, Turner JBM, Poklis JL, Ehrhardt CJ, **Peace MR (presenter)**. “Dangerous Concoctions? The Alkaloids, Bacteria, and Pesticides in Traditional Chinese Herbal Medicines” Platform Presentation at Society of Forensic Toxicologists, Minneapolis MN, 2018.
27. Mulder HA (presenter), Poklis JL, Halquist MS, **Peace MR**. “Evaluating the Dragon in E-Cigarettes: An Analysis of the Aerosol from an E-Liquid Adulterated with Methadone”Platform Presentation at Society of Forensic Toxicologists, Minneapolis MN, 2018.
28. Povlick J (presenter), Morel Y, Mulder HA, Turner JBM, Poklis J, **Peace MR**. “Riding the Dragon: Optimization of Methadone Recovery in an E-cigarette Aerosol with the Addition of Caffeine”Poster presentation at Society of Forensic Toxicologists, Minneapolis MN, 2018.
29. Poklis JL, Mulder HA (presenter), Curless B, **Peace MR**. The Unexpected Identification of 5-Fluoro MDMB-PINACA in Commercial Cannabidiol (CBD) “Therapeutic” E-liquids. Poster presentation at PittCon, Orlando FL, 2018.
30. Halquist MS (presenter), Kosmider L, Poklis JL, **Peace MR**. Direct Inhalation Exposure Mouth Model to Evaluate e-Cigarette Aerosol Exposure on Human Oral Cells. Poster presentation at PittCon, Orlando FL, 2018.
31. Tomko JT (presenter), Poklis JL, Turner JBM, Wolf CE, **Peace MR**. Assessment of Metals in the Aerosol of Electronic Cigarettes. Platform Presentation at PittCon, Orlando, FL, 2018.
32. Smith ME (presenter), Poklis JL, Turner JBM, Edinboro L, **Peace MR**. Analysis of Commercially Available Natural Vaping Products using Headspace Gas Chromatography and Direct Analysis Real Time Time of Flight Mass Spectrometry (DART-MS). Poster Presentation at PittCon, Orlando, FL, 2018.
33. Mulder HA (presenter), Halquist MS, Poklis A, Poklis JL, Turner J, **Peace MR**. Evaluation of Drugs Other Than Nicotine (DOTNs) in an Aerosol Formed by an Electronic Cigarette. Pittcon Conference & Expo 2017, Orlando FL, March 2018.
34. Grzymkowski JK (presenter), Poklis JL, Ehrhardt CJ, **Peace MR**.Characterization of Microorganisms in Traditional Chinese Herbs. Platform Presentation at American Academy of Forensic Sciences, Seattle, WA, 2018.
35. Royals JM (presenter), 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 Coils. Poster Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
36. Krakowiak R, Poklis JL, Turner JBM, Poklis A, Davis LS, Mulder HA (presenter), **Peace MR**. Quantitation of Aerosolized Methamphetamine from Electronic Cigarettes GC/MS: Does increasing the voltage increase the dose? Poster Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
37. Joiner RK, Bohidar N, Kirby BF, **Peace MR**, Ward BC (presenter). Rapid field testing of nicotine in e-liquids. Platform Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
38. Chen W, Poklis JL, **Peace MR** (presenter). Preliminary Results of Pharmacologically Active Ingredients in Traditional Chinese Herbal Products. Platform Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
39. Mulder HA (presenter), Poklis JL, Turner JBM, Poklis A, **Peace MR**. Dripping meets Dabbing: Cases Using the Rebuildable Dripper Atomizer to Vape Non-traditional E-liquids and Drugs-Other-Than-Nicotine (DOTNs), Poster Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
40. Patterson JL, Poklis JL, Halquist M, Hindle M, Turner JBM, Wolf CE, Poklis A, **Peace MR** (presenter). The Effect of Voltage, Resistance, and Glycols Ratio on Glycol and Nicotine Distribution within an Aerosol Generated by an Electronic Cigarette, Poster Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
41. Grzymkowski J (presenter), Poklis JL, **Peace MR**. Identification of “Kratom” (Mitragyna speciose) Alkaloids in Commercially Available Products, Poster Presentation, Society of Forensic Toxicologists, Boca Raton, FL, 2017.
42. **Peace MR.** “Chasing the Electronic Cigarette Dragon: Characterizing the Evolution of Design and Impact”, Southwestern Association of Toxicologists. Wichita KS, 2017.
43. Mulder HA (presenter), Poklis JL, Wolf CE, **Peace MR**. “Analysis of Dried Blue Lotus Flower (Nymphea Caerulea) Used in an Electronic Cigarette.” Southwestern Association of Toxicologists. Wichita KS, 2017.
44. **Peace MR** (presenter), Mulder HA, Krakowiak R, Turner JBM, Halquist MA, Wolf CE, Poklis JL, Poklis A. An Assessment of Drugs Other Than Nicotine (DOTNs) in Electronic Cigarette Products. Poster Presentation, PittCon, Chicago IL, 2017.
45. Poklis JL (presenter), Wolf CE, **Peace MR**. Ethanol Concentration in 63 Refillable Electronic Cigarettes Liquid Formulations Determined by Headspace Gas Chromatography with Flame Ionization Detector (HS-GC-FID). Platform Presentation, PittCon, Chicago IL, 2017.
46. Stewart J (presenter), Turner JBM, Poklis JL, Poklis A, **Peace MR**. Metal Composition of Electronic Cigarette Coils Pre- and Post-Heating by Scanning Electron Microscopy. Poster Presentation, PittCon, Chicago IL, 2017.
47. Patterson JL (presenter), Poklis JL, Hindle M, Turner JBM, Wolf CE, Poklis A, **Peace MR**. Evaluation of the Nicotine Particle Size in an Aerosol Formed by an Electronic Cigarette. Platform Presentation, PittCon, Chicago IL, 2017.
48. Krakowiak RI (presenter), Poklis JL, Wolf CE, Poklis A, **Peace MR**. An Analysis of E-liquids Containing MDMB-Fubinaca. American Academy of Forensic Sciences. New Orleans, LA, 2017.
49. Patterson JL (presenter), Poklis JL, Hindle M, Wolf CE, McGee Turner JB, Poklis A, **Peace MR**. Evaluation of the Particle Size in the Aerosol Produced by an Electronic Cigarette. Platform Presentation Society of Forensic Toxicologists, Dallas TX, 2016
50. Krakowiak RI (presenter), Butler KE, Stone JW, Baird TR , Poklis JL, Turner JBM, Poklis A, **Peace MR**. Analysis of Aerosolized Methamphetamine Infused E-Liquids by Solid Phase Microextraction using Gas Chromatography Mass Spectrometry (SPME-GC-MS), Direct Analysis in Real Time AccuTOFTM Mass Spectrometry (SPME-DART-MS), and Headspace Gas Chromatography Mass Spectrometry (HS-GC-MS).  Poster Presentation Society of Forensic Toxicologists, Dallas TX, 2016
51. Mulder HA (presenter), Blue IP, Poklis JL, Patterson JL, Krakowiak RI, Forsythe K, Royals J, Dupont A, Poklis A, **Peace MR**, Turner JBM. Temperature Characterization of Electronic Cigarette Atomizer By Infrared Temperature Sensing. Poster Presentation Society of Forensic Toxicologists, Dallas TX, 2016
52. Blue IP (presenter), Butler KE, McGee Turner JB, **Peace MR**. That’s Not Fire Debris: Passive Extraction of Nicotine from Components of Electronic Cigarettes Using Charcoal Strips. Poster Presentation Society of Forensic Toxicologists, Dallas TX, 2016
53. McNew LA (presenter), Poklis JL, McGee Turner JB, Poklis A, **Peace MR**. A Presumptive Evaluation of Commercial Refill Formulations for Nicotine by a Microchemical Analysis Method Developed for Field Testing. Poster Presentation Society of Forensic Toxicologists, Dallas TX, 2016
54. Brooks KNL (presenter), Poklis JL, McGee Turner JB, Poklis A, **Peace MR**. The Effects of Environment on Electronic Cigarette E-liquid Formulations. Poster Presentation Society of Forensic Toxicologists, Dallas TX, 2016
55. Butler SN (presenter), Poklis JL, Turner JBM, Poklis A, **Peace MR**. “Turning Over a New Leaf: Characterization and Analysis of Kratom E-liquids.” Platform presentation. Mid-Atlantic Association of Forensic Scientists, May 2016.
56. **Peace MR** (presenter), Poklis JL, Turner JBM, Poklis A. “Why we should care about that vapor cloud: Developing a model to study the use of e-cigarettes.” Platform presentation. Mid-Atlantic Association of Forensic Scientists, May 2016.
57. McNew LA (presenter), Poklis JL, Turner JBM, Poklis A, **Peace MR**. “A Field Test for Nicotine in Refill Formulations for Electronic Cigarettes. Platform presentation.” Mid-Atlantic Association of Forensic Scientists, May 2016.
58. Mulder H (presenter), Blue IP, Patterson J, Krabowiak R, Poklis A, Poklis JL, **Peace MR**, Turner JBM. “The Hitchhiker’s Guide to the Coil: A Comparison of Kanthal A-1 and Nichrome Wire in the Electronic Cigarette World.” Platform presentation. Mid-Atlantic Association of Forensic Scientists, May 2016.
59. Butler KE, Stone JW, Poklis JL, Turner JBM, Baird T, Poklis A, **Peace MR**(presenter). “The Efficacy of “Personal Vaporizers” as an Illicit Drug Delivery System.” Seminar. NIJ Research Symposium, February 2016.
60. Mulder HA (presenter), Blue IP, **Peace MR**, Turner JBM. “HOTWIRE: Temperature Profiling of Electronic Cigarette Coils. Poster Presentation.” American Academy of Forensic Science Annual Meeting, Las Vegas, NV, February 2016.
61. Butler SN (presenter), Poklis JL, Turner JBM, Poklis A, **Peace MR**. “Characterization and Analysis of Rebuildable Dripping Atomizer for Electronic Cigarettes.” Poster Presentation. American Academy of Forensic Science Annual Meeting, Las Vegas, NV, February 2016.
62. McLean L (presenter), Brooks K, Turner JBM, **Peace MR**. “The Risk of Electronic Cigarettes to Public Health and Criminal Justice”, Poster, Society of Forensic Toxicologists Annual Meeting, Atlanta GA, October 2015.
63. Stone JW (presenter), Poklis JL, Turner JBM, Poklis A, **Peace MR**. “Analysis of Marijuana E-liquid for Use in Electronic Cigarettes by Accu-TOF DART Mass Spectrometry, GC-MS, and HPLC-MS/MS/MS”, Poster, Society of Forensic Toxicologists Annual Meeting, Atlanta GA, October 2015.
64. Baird T (presenter), Poklis J, Stone JW, Butler KE, Wolf CE, Smith N, Turner JBM, Poklis A, **Peace MR**. “Characterization of Electronic Cigarette Refill Formulations and Dose Capture of Nicotine in Aerosol by AccuTOF DART Mass Spectrometry, HPLC-MS/MS/MS, and GC-MS”, Platform, Society of Forensic Toxicologists Annual Meeting, Atlanta GA, October 2015.
65. Butler KE (presenter), Poklis JL, Turner JBM, Poklis A, **Peace MR**. The Presumptive Analysis of Electronic Cigarette Aerosol Using Solid-Phase Micro-extraction (SPME) for Analysis by GCMS and AccuTOF DART-MS, Platform, Society of Forensic Toxicologists Annual Meeting, Atlanta GA, October 2015.
66. Murphy J, **Peace MR** (presenter). Taking F.A.C.T.S. (Forensic Application of Critical Thinking Skills) to Middle Schools. Gulf South Summit on Service Learning and Civic Engagement through Higher Education, Little Rock, AR, March 2015.
67. Baird T (presenter), Poklis J, Smith N, Turner JBM, Poklis A, **Peace MR**. “Nicotine Content in Electronic Cigarette Formulations Using Direct Analysis in Real Time (DART) AccuTOFTM Mass Spectrometry and High Pressure Liquid Chromatography Triple Quadrupole Mass Spectrometry (HPLC/MS/MS)”. Poster Presentation, AAFS, Orlando, February 2015.
68. A Mohs (presenter)**,** J Poklis, C Wolf II, **M Peace**, A Poklis.Detection of Drugs in Pharmaceutical Preparations Where Diversion Can Occur by Direct Analysis in Real-Time AccuTOF™-Mass Spectrometry (DART®-MS). Platform, American Academy of Forensic Sciences Annual Meeting, February 2015.
69. Dugger C (presenter), **Peace MR**, Poklis A, Jufer-Phipps R. “A New Gas Chromatography-Mass Spectrometry Method for the Analysis of Lamotrigine in Postmortem Blood, Urine, and Solid Tissues”. Poster Presentation, AAFS, Orlando, February 2015.
70. Poklis JL, Raso SA (presenter), Alford K, Poklis A, **Peace MR**. “A Direct Analysis in Real Time AccuTOFTM Mass Spectrometry (DART-MS) Method for the Analysis of 25I-NBOMe and Other Dimethoxyphenyl-N-[(2-methoxyphenyl) methyl]ethanamine) Derivatives”. Platform Presentation, SOFT, Grand Rapids, MI, October 2014.
71. Raso S (presenter), Alford K, Poklis J, Poklis A, **Peace MR**. “The Characterization of 12 “Legal High” Solids Sold Online as “Bath Salts” or “Herbal Incense Products” Using Direct Analysis in Real Time Accu-TOFTMMass Spectrometry”, Platform Presentation, MAAFS, Penn State, May 2014.
72. Clark SS (presenter), PoklisJL, **PeaceMR**, PoklisA. “Washing Procedures Used in the Decontamination of Hair Samples for Cocaine and Its Metabolites”, Poster Presentation, AAFS, Chicago, IL. February 2011.
73. J.D. Ropero-Miller, P.R. Stout, *Katherine Moore* (*speaker*), R. Steiner, **M. Peace**, S.

MacDonald, J.M. Mitchell, and M.R. Baylor. “Development of a Web-accessible

Cheminformatic Spectral Database for Shared Utilization by Forensic Laboratories.”

ACD/Labs North American User’s Meeting, April, 2011.

1. J.D. Ropero-Miller, P.R. Stout, *K. Moore* (*speaker*), R. Steiner, **M. Peace**, J.M.

Mitchell, and M.R. Baylor. “Development of a Web-accessible Cheminformatic Spectral

Database for Shared Utilization by Forensic Laboratories.” 2011 American Academy of

Forensic Sciences Meeting, February, 2011.

1. J.D. Ropero-Miller, P.R. Stout, *K. Moore* (*speaker*), R. Steiner, **M. Peace**, J.M.

Mitchell, and M.R. Baylor. “Status Update for ForensicDB: A Web-Accessible Spectral

Database for Shared Utilization by Forensic Laboratories.” 2011 Society of Forensic

Toxicologists Meeting, September, 2011.

1. Durham LS (presenter), **Peace MR**. “History of Forensic Toxicology – A Perspectus”, Poster Presentation, CBD-IAI, Virginia Beach, VA. April, 2009. Second place winner.
2. Moore KN (presenter), **Peace MR**. “Urine – or You’re Not – A History of Forensic Urine Drug Testing”, Poster Presentation, CBD-IAI, Virginia Beach, VA, April, 2009
3. AM Halphen (presenter), CR Crooks, **MR Peace**, and A Poklis. “A Method for the

Determination of Amphetamines and Methylenedioxyamphetamines in Oral Fluid by

Gas Chromatography/Mass Spectrometry.” 2008 American Academy of Forensic

Sciences Meeting, February 2008.

1. **Peace MR**, L. Orebaugh, L.D. Tarnai, C.E. Wolf, and A. Poklis (speaker). “Evaluation

of the Lin-Zhi International Cannabinoid Enzyme Immunoassay for the detection of

marijuana cannabinoid metabolites in urine.” 35th Annual Meeting, Society of Forensic

Toxicology, Austin, TX. October, 2006.

1. L.D. Tarnai (speaker), L. Orebaugh, **M.R. Peace**, C.E Wolf, and A. Poklis. “Comparison of three enzyme immunoassay for the detection of marijuana cannabinoid metabolites in urine.” 35th Annual Meeting, Society of Forensic Toxicology, October, 2006.
2. **Peace MR**, (presenter) Poklis A. Forensic Entomotoxicology: A Study in the Deposition of Amphetamines into the Larvae of the Black Blow Fly, *Phormia regina.* Platform presentation Meeting of the American Academy of Forensic Sciences, New Orleans, LA, February 2005.
3. Doane R (presenter), **Peace MR**. The Effects of Meprobamate on the Life Cycle of the Black Blow Fly, *Phormia regina*. Poster presentation at Virginia Commonwealth University’s Medical College of Virginia Watts Day Scientific Forum. October 2004.
4. **Peace MR** (presenter), Poklis A. Forensic Entomotoxicology: A Study in the Deposition of Barbiturates into the Larvae of the Black Blow Fly, *Phormia regina.* Platform presentation at the 2004 joint meeting of the Federal Bureau of Investigation (FBI), the Society of Forensic Toxicologists (SOFT) and The International Association of Forensic Toxicologists in Washington D.C.
5. **Peace MR** (presenter), Byrd JH, Poklis A. Forensic Entomotoxicology: A Study of the Effects of Barbiturates and Amphetamines on the larvae of *Phormia regina.* Poster presentation at the 2004 Mid-Atlantic Association of Forensic Scientists (MAAFS) Annual Meeting in Wilmington, Delaware.
6. Monthei DR (presenter), **Peace MR**. The Effects of Carisoprodol on *Phormia regina* larvae. Poster presentation at the 2004 MAAFS in Wilmington, Delaware.
7. Schulman J (presenter), **Peace MR**. A Comparison Study between Quantitated Titanium Dioxide and Cyanoacrylate Latent Print Development Techniques. Poster presentation at the 2004 MAAFS in Wilmington, Delaware.
8. **Peace MR** (presenter), Poklis A, Byrd JH. Forensic Entomotoxicology: A Study of the Effects of Barbiturates and Amphetamines on the larvae of *Phaenicia sericata*. Platform presentation at 2002 SOFT Annual Meeting *and* poster presentation at Medical College of Virginia’s (MCV) Watts Day Scientific Forum.
9. Peace MR (presenter), Tarnai LD. Performance Evaluation of Three On-Site Adulterant Detection Devices which Qualitatively Assess the Integrity of Urine Specimens Collected for Drugs-of-Abuse Testing. Poster presented at 2001 SOFT Annual Meeting and MCV Watts Day Scientific Forum.
10. Peace MR (presenter), Tarnai LD, Poklis A. Performance Evaluation of 4 On-Site Drug Testing Devices for Detection of Drug of Abuse in Urine. Poster at 1999 SOFT Annual Meeting.

1. Peace MR (presenter), Tarnai LD, Poklis JL, Poklis A. An Evaluation of the OnTrak Testcup®-er On-Site Drug Testing Device to Qualitatively Determine the Presence of Drugs of Abuse in Urine Specimens Obtained from Emergency Departments. Poster presented at 2001 SOFT Annual Meeting.
2. Levine B (presenter), **Peace MR**. Evaluation of Two Opiate Radioimmunoassays as Replacement for Roche Abuscreen Radioimmunoassay. Poster presented at 1997 AAFS Annual Meeting.

# INTERNATIONAL INVITED PRESENTATIONS

**London Toxicology Group. June 2022** (Virtual)

*Vaping’s Public Health and Public Safety Challenges*

**Saudi Arabia, King Abdullah University, Medical Campus. December 2019.**

*The Electronic Cigarette – A Public Health Challenge Became a Criminal Justice Problem*

*Leadership for Women in Science – Breaking Through the Glass Ceiling*

*Forensic Entomology – Its Utility at a Crime Scene and Intersection with Forensic Toxicology*

**Toronto, Canada, Drugs and Driving Symposium, May 2019.** *The Efficacy of Electronic Cigarettes – The Public Health Challenge Became a Criminal Justice Problem*

**International Vision Fellow, New Zealand,** May-June 2018. *The Roller Coaster of Opioid Addiction in the United States* AND *Chasing the Electronic Cigarette Dragon: Characterizing the Evolution and Impact of Design and Abuse*

Talks given at:

* Environmental Research and Science (ESR) – Crime Lab
	+ - * + Controlled Substances, Trace Evidence, Toxicology, Forensic Pathologists, Crime Scene Investigators
	+ NZ Police Department
		- Narcotics, Organized Crime, Intelligence
	+ Ministry of Health
	+ Poison Center
	+ University of Dunedin
	+ University of Auckland

**International Fellow, University of Public Safety, Beijing, China,** September 2016

*Current Trends in Drug Addiction and Trafficking in the United States*

*Electronic Cigarettes and the Threat to Criminal Justice and Public Health*.

Talks given at: International Conference on Forensic Science

Northwest Law University, Xi’An

University of Public Safety, Beijing

**International Fellow, University of Public Safety, Beijing, China,** November 2006

*Forensic Science Education in the United States of America*

*Forensic Drug Testing and the Criminal Justice System*

*Forensic Entomology*

Talks given at: International Conference on Forensic Science

 University of Public Safety, Beijing

# AWARDS

**Teaching and Mentoring Award,** Society of Forensic Toxicologists, 2021. Outstanding contributions to the field through teaching and mentoring.

**Student Awards**

* Alaina Holt – 2023 – June K. Jones Award, Toxicology Section, AAFS
* **Laerissa Reveil** – 2022 – Young Scientist Award for Research Contributions in Forensic Toxicology
* **Tyson Baird** – 2022 - SOFT Educational Research Award for Impact to Forensic Toxicology
* **Bailey Jones** – 2022 - SOFT Educational Research Award for Impact to Forensic Toxicology
* **Erica Sales** – 2021 - SOFT Educational Research Award for Impact to Forensic Toxicology
* **Ashley Gesseck** – 2020 - SOFT Educational Research Award for Impact to Forensic Toxicology
* **Haley Mulder** – 2020 – AAFS June K. Jones Award for Excellence in Student Research
* **Haley Mulder** – 2018 – SOFT Educational Research Award for Impact to Forensic Toxicology
* **Karen Butler** – 2015 – SOFT Leo Dal Cortivo Award for Best Platform Presentation

**Hodges-Kay Service Award,** Medical College of Virginia Alumni Association at Virginia Commonwealth University. October 2018.

* Recognition for extraordinary service and accomplishments to MCV as President for MCVAA for an extended period of time.

**International Vision Fellow of the Institute of Environmental Science Research, New Zealand. May-June 2018.**

# MEMBERSHIPS

###### **Society of Forensic Toxicologists**

* Chair, Professional Mentoring Program (2019-2021)
* Past President, 1 year term, 2019
	+ Chair, Nominating Committee
	+ Culture, Values, Diversity Committee – Executive Group
	+ Mentorship Task Group Chair
	+ Survey Working Group Chair
	+ History Committee Co-chair
	+ Finance Committee Member
* President, 1 year term, 2018
	+ Conducted the first by-laws review and revision to modernize language and align the organization’s practice with policy
	+ Established a Professional Mentoring Task Group
		- Began a task force to propose an official mentoring program in the organization
	+ Established a Culture, Values, and Diversity Committee
	+ Led the Board in a year-long strategic planning conversation to identify short-term, mid-range, and long-term goals to strengthen the organization, including membership surveys and revenue generation
	+ Established quarterly mentoring meetings between past conference hosts and future conference hosts
	+ Established a Communications and Outreach Committee
* Vice President, 1 year term, 2017
	+ Evaluated future annual meeting sites and signed 3 contracts for future host cities
* Treasurer, 2 year term, 2015-2016
	+ Prepared and managed the budget for a $1.3M organization
	+ Strategic Planning Committee
* Board of Directors, 2012-2014
	+ Policy and Procedure Sub-committee
* Chairperson and Host, SOFT 2010 Annual Meeting

###### **The International Association of Forensic Toxicologists, 2017-Present**

* Full member

###### **National Safety Council, 2016 – Present**

* Voting Member of Drugs, Alcohol, and Impaired Driving Division
	+ - Recommendations of division were incorporated [Public Law 117-58](https://www.congress.gov/117/plaws/publ58/PLAW-117publ58.pdf), Section 25025
	+ Section Member: Cannabis Safety (2020-Present)
		- Author of Vaping and Cannabis Position Paper (in draft form)

**American Academy of Forensic Sciences, 1995 - Present**

* Fellow, Toxicology Section