

CURRICULUM VITAE

Marc A. LeBeau, PhD, F-ABFT

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PROFESSIONAL EXPERIENCE

Jul 2022 – Present

President

LeBeau Forensic Toxicology Consulting, LLC
Fairfax, Virginia
O'Fallon, Missouri

Expert toxicology consulting services and testimonial support in civil matters. Helps with laboratory improvements to comply with forensic science standards.

Aug 2011 – Oct 2024

Senior Forensic Scientist

Scientific Analysis Section
FBI Laboratory
Federal Bureau of Investigation
Quantico, Virginia

Serves as senior science advisor for matters involving forensic science; specifically in the areas of forensic toxicology and forensic chemistry. Provides expert advice, technical assistance, and scientific support to the Laboratory Director and other Laboratory Executive Management. Serves as senior-level public and congressional affairs advisor for the Laboratory's programs directed toward forensic sciences. Assists in preparing speeches, briefing material, Congressional testimony, and reports on complex and controversial topics. Represents the FBI at U.S. Government interagency meetings, as well as national and international conferences. With a team of other Senior Scientists, ensures that the scientific evidence delivered in criminal and intelligence matters is based on solid empirical foundations and uses reliable methods. Oversees and assists with preparing peer-reviewed manuscripts that document the Laboratory's contributions to developing novel techniques and procedures in forensic science.

Sep 2000 – Nov 2011

Unit Chief / Supervisory Chemist

FBI Laboratory
Federal Bureau of Investigation
Quantico, Virginia

Managed the daily operation of the Chemistry Unit. Responsibilities included acceptance and assignment of cases, review of technical reports, training of personnel, coordination of the Unit's response to major crimes, and performance of forensic examinations on evidence submitted to the Chemistry Unit. Served as Acting Unit Chief of Counterterrorism and Forensic Science Research Unit (2009 – 2010).

Oct 1994 – Sep 2000

Forensic Chemist / Toxicologist

FBI Laboratory
Federal Bureau of Investigation
Washington, D.C.

Performed forensic examinations on evidence submitted to the Chemistry Unit. Casework involved toxicological analyses, drug and drug residue examinations, bank dye assays, ink comparisons, and investigations into product tampering claims.

Jun 1990 – Oct 1994

Forensic Toxicology Supervisor

Saint Louis County Medical Examiner's Office
Saint Louis, Missouri

Managed the forensic toxicology laboratory; reviewed and signed official laboratory reports; performed medicolegal analyses on postmortem and antemortem biologicals; testified in court on the validity of laboratory results; researched and developed new analytical methods.

Sep 1988 – Apr 1990

Chemistry Instructor

University of New Haven
West Haven, Connecticut

Taught general chemistry lectures and laboratory courses.

Jul 1989 – Sep 1989

Intern

National Medical Services
Willow Grove, Pennsylvania

Assisted supervisor of forensic casework and assisted scientists with case analyses.

Summers 1985 & 1986

Laboratory Technician

Monsanto Chemical Company
Saint Louis, Missouri

Performed extractions and instrumental analyses.

EDUCATION

Aug 1984 – May 1988

Central Missouri State University

Warrensburg, Missouri
Bachelor of Arts Degree
Majors: Chemistry & Criminal Justice

Sep 1988 – Jun 1990

University of New Haven

West Haven, Connecticut
Master of Science Degree
Major: Forensic Science

Aug 1990 – Jul 1994

Saint Louis University

Saint Louis, Missouri
Graduate Course Work
Major: Pathology
Concentration: Toxicology

Sep 1997 – Dec 2005

University of Maryland - Baltimore

Baltimore, Maryland
Doctor of Philosophy
Toxicology

PROFESSIONAL CERTIFICATION

Mar 2011-Present: **Fellow of the American Board of Forensic Toxicology**
Colorado Springs, Colorado

PROFESSIONAL SOCIETY MEMBERSHIPS

1989 – Present: American Academy of the Forensic Sciences (AAFS); Fellow
1988 – 1990: American Chemical Society; Member
1993: American Association for Clinical Chemistry; Member
1995 – Present: The International Association of Forensic Toxicologists (TIAFT); Member
1995 – Present: Society of Forensic Toxicologists (SOFT); Full Member
2008 – 2015: American Society of Crime Laboratory Directors (ASCLD); Member
2020 – Present: ASTM International; Member

GRADUATE STUDENT RESEARCH COMMITTEES

Co-Mentor:

2020-2021: Kelsey McManus, MS (Boston University, Boston, MA)
2020-2021: Jeovanna Badson, MS (Arcadia University, Glenside, PA)

PROFESSIONAL COMMITTEES / AFFILIATIONS

1997 – 1998: National Institute of Justice *Drug Testing Technology* Panel – Member
1997 – 1999: AAFS Representative to the *Joint Committee on Education and Training in Toxicology*.
1997 – 2000: *Scientific Working Group for the Analysis of Seized Drugs (SWGDRUG)* – FBI Laboratory Representative
1998: Department of Justice *Drug Facilitated Rape* Panel – Member
1999 – 2001: Society of Forensic Toxicologists *Continuing Education Committee* – Member
1999 – 2002: Editorial Board of *Forensic Science Communications* – Member
1999 – 2002: *College of American Pathologists – Forensic Identity Committee* – Consultant
1999 – 2004: *2004 FBI Laboratory Symposium on Forensic Toxicology and Joint Meeting of the SOFT and TIAFT* – Chair
1999 – Present: ASCLD-LAB/ANAB Assessor
1999 – 2024: Society of Forensic Toxicologists *Drug-Facilitated Sexual Assault Committee* – Chair (1999-2010); Member (2011-2024)
2000: Office for Victims of Crime *Drug-Facilitated Sexual Assault* Panel – Member
2002 – 2005: *Quality Forensics: Toxicology Committee* – Consultant

- 2002 – 2004: Violence Against Women’s Office: Committee to set *National Standards for the Sexual Assault Forensic Examination* – Consultant
- 2002 – 2007: *Scientific Working Group on the Forensic Analysis of Chemical Terrorism (SWGFACT)* – Chair
- 2002 – 2007: TIAFT Young Scientists Committee – Member
- 2005: Co-editor of the Special Issue of *Forensic Science International* dedicated to the 2004 Joint Meeting of SOFT and TIAFT
- 2005: Co-editor of the Special Issue of *Journal of Chromatography B* dedicated to the 2004 SOFT and TIAFT Joint Meeting.
- 2005: Co-editor of the Special Issue of the *Journal of Analytical Toxicology* dedicated to the 2004 Joint Meeting of SOFT and TIAFT.
- 2006 – 2014: TIAFT Systematic Toxicological Analysis Committee – Member
- 2006: Guest Editor of the SOFT Special Issue of the *Journal of Analytical Toxicology*
- 2006 – Present: *Journal of Analytical Toxicology* – Editorial Board Member
- 2007 – 2013: SOFT Board of Directors – Director (2007-2008); Treasurer (2009-2010); Vice-President (2011); President (2012); Immediate Past-President (2013)
- 2007 – 2009: *Scientific Working Group on the Forensic Analysis of Chemical, Biological, Radiological and Nuclear Terrorism (SWGCBRN)* – Co-Chairman
- 2007 – 2010: *Clinical and Laboratory Standards Institute: Working Group on Gas Chromatography/Mass Spectrometry Confirmation of Drugs* – Member
- 2008 – 2024: TIAFT Board of Directors – Board Member (2008-2011); Treasurer (2011-2014); President-Elect (2014-2017); President (2017-2022); Immediate Past-President (2022-2024)
- 2008 – 2015: ASCLD-LAB *Toxicology Proficiency Review Committee* – Member
- 2009 – 2010: Guest Editor of *Forensic Science Review*
- 2009 – 2019: Advisory Board of *Forensic Toxicology* – Member
- 2010 – 2014: *Scientific Working Group on Forensic Toxicology (SWGTOX)* – Executive Committee Member
- 2011 – 2012: United Nations Office on Drugs and Crime *Expert Group on Psychoactive Substances Used to Facilitate Crimes* – Consultant
- 2011 – 2015: *Annales de Toxicologie Analytique* – Editorial Board Member
- 2012 – 2015: Assistant Editor of *Forensic Science International*
- 2012: *Sexual Assault Medical Forensic Examination Research Forum* – Consultant
- 2013: World Health Organization *Expert Panel on Building National System Capacity for Medico-Legal Evidence for Sexual Violence* – Consultant
- 2014 – 2017: *National Commission on Forensic Science* – Commissioner

- 2014 – 2020: Organization of Scientific Area Committees (OSAC) for Forensic Sciences; Toxicology Subcommittee – Chair (2014-2019); Vice-Chair (2019-2020)
- 2015 – 2017: Professional of The American Congress of Forensic Science Laboratories
- 2016 – Present: AAFS Standards Board – Toxicology Consensus Body – Chair
- 2020 – Present: OSAC for Forensic Sciences; Chemistry: Seized Drugs & Toxicology Scientific Area Committee – Chair
- 2020 – Present: Scientific Advisory Committee for the Virginia Department of Forensic Science
- 2020 – 2024: Chair of the Industry Advisory Board of the Center for Advanced Research in Forensic Science
- 2022: SAMHSA Comprehensive Review Panel for the Federal Drug Testing Program

PROFESSIONAL AWARDS AND RECOGNITIONS

- 1999: Certificate of Achievement - *TWA 800 Investigation*.
- 1999: Certificate of Achievement - *JASMUR Investigation*
- 2004: Federal Bureau of Investigation. *FBI Director's Award for Outstanding Scientific Advancement*
- 2007: Institute of Environmental Science and Research (ESR) 2007 International Fellow
- 2008: End Violence Against Women International *Visionary Award*
- 2008: Peace Corps Office of Inspector General. *Outstanding Support of the Criminal Investigative Mission*.
- 2008: American Association for Clinical Chemistry. *Outstanding Speaker Award 2008*.
- 2013: American Association for Clinical Chemistry. *Outstanding Speaker Award 2013*.
- 2015: American Academy of Forensic Sciences, Toxicology Section, *Alexander O. Gettler Award*.
- 2020: Federal Bureau of Investigation. *FBI Director's Award for Outstanding Scientific Advancement*
- 2023: American Academy of Forensic Sciences, Toxicology Section, *Rolla Harger Award*.
- 2023: Invited Speaker for Commencement of 2023 Graduates of Virginia Commonwealth University Forensic Science Department.

CONTINUING EDUCATION: SCIENTIFIC CONFERENCES ATTENDED

- 1992; 1997 – Present: American Academy of Forensic Sciences Annual Meeting
- 1995 – Present: Society of Forensic Toxicologists Annual Meeting
- 1998; 2000 – Present: The International Association of Forensic Toxicologists Annual Meeting
- 2019: Forensic & Clinical Toxicology Association Inc Bi-Annual Conference

CONTINUING EDUCATION: WORKSHOPS AND COURSES ATTENDED

- Jun 1992: *An International Symposium on Forensic Toxicology*. Federal Bureau of Investigation.
- Jun 1993: *Professional Practice in Toxicology: A Review*. American Association for Clinical Chemistry.
- Dec 1994: *Chromatographic Methods in Forensic Science*. Federal Bureau of Investigation.
- Feb 1995: *XSQ 7000 Operations Course*. Finnigan MAT Institute.
- Mar 1995: *Forensic Examiner Training Course*. Federal Bureau of Investigation.
- Oct 1995: *Fundamentals of Forensic Toxicology: A Basic Course*. SOFT Annual Meeting Workshop.
- Oct 1995: *Advanced Forensic Toxicology: Pharmacologic and Interpretative Topics*. SOFT Annual Meeting Workshop.
- Oct 1995: *Advanced Forensic Toxicology: Analytical Topics*. SOFT Annual Meeting Workshop.
- Jun 1996: *GCQ Operations Course*. Finnigan MAT Institute.
- Aug 1996: *Ethics Training*. FBI Headquarters.
- Dec 1996: *Management Training for Laboratory Supervisors*. FBI Laboratory.
- Feb 1997: *Pharmacokinetics and Interpretation of Old and New Drugs*. AAFS Annual Meeting Workshop.
- Feb 1997: *Forensic Toxicology: A Living Science*. AAFS Annual Meeting Workshop.
- Feb 1997: *Looking Backward and Forward: Three Decades of Toxicological Adventure*. AAFS Annual Meeting Workshop.
- Jul 1997: *Bank Security Device Training*. ICI Americas, Inc.
- Jul 1997: *Capillary Electrophoresis*. Hewlett-Packard Company.
- Feb 1998: *Standardized Methods in the Forensic Science Laboratory*. AAFS Annual Meeting Workshop.
- Feb 1998: *Methamphetamine: Synthesis, Pharmacology, Analysis and Toxicology*. AAFS Annual Meeting Workshop.
- Feb 1998: *Tryptamines: Natural and Synthetic*. AAFS Annual Meeting Workshop.
- May 1998: *The Science of Solid Phase Extraction*. United Chemical Technologies, Inc.
- Oct 1998: *Rohypnol*. SOFT/TIAFT Annual Meeting Workshop.
- Oct. 1998: *Chemical Ionization Mass Spectrometry*. SOFT/TIAFT Annual Meeting Workshop.
- Feb 1999: *Marijuana: A Forensic Symposium*. AAFS Annual Meeting Workshop.
- Apr 1999: *Chemical Warfare Agent Awareness*. Edgewood Arsenal. Aberdeen Proving Grounds.
- Aug 1999: *Xcalibur Training Course*. Finnigan MAT Institute.
- Feb 2000: *The Use of Micro-Plate Immunoassay Systems in Analytical Toxicology*. AAFS Annual Meeting Workshop.
- Feb 2000: *Forensic Applications of Capillary Electrophoresis*. AAFS Annual Meeting Workshop.

- Apr 2000: *Ethics Training*. FBI Headquarters.
- Oct 2000: *The Forensic Toxicological Aspects of Chemical Terrorism*. SOFT Annual Meeting Workshop.
- Oct 2000: *Forensic Applications of LC/MS at the Beginning of the 21st Century*. SOFT Annual Meeting Workshop.
- Oct 2000: *Benzodiazepines: Pharmacology and Analytical Challenges*. SOFT Annual Meeting Workshop.
- Feb 2001: *Raves, Nightclubs, and the New Youth Drug Culture*. AAFS Annual Meeting Workshop.
- Mar 2002: *Drug Facilitated Sexual Assault*. International Conference on Domestic Violence, Sexual Assault, and Stalking.
- Apr 2002: *Club Drugs: Dancing with Death*. DEA Conference.
- May 2002: *Situational Leadership*. Ninth House Network Online Training.
- Sep 2002: *Leading Scientific Organizations*. FBI Symposium on Crime Lab Development.
- Oct 2002: *Drug Deterrence Program's Supervisory Drug-Free Workplace Training*, Washington, DC.
- Jan 2003: *Chemical Agents of Opportunity for Terrorism: Preparedness and Response*. Centers for Disease Control and Prevention.
- Sep 2003: *Achieving Excellence through Partnerships*. FBI Symposium on Crime Laboratory Development.
- Oct 2003: *Preparation and Planning for Laboratory Accreditation by the American Board of Forensic Toxicology (ABFT)*, SOFT Annual Meeting Workshop.
- Feb 2005: *Executive Development Institute*. FBI Academy.
- May 2005: *ASCLD-LAB International Assessor Training Course*.
- Aug 2005: *FBI Crime Laboratory Development Symposium*.
- Oct 2005: *Blood Alcohol Concentration Extrapolation*. SOFT Annual Meeting Workshop.
- Oct 2005: *Postmortem Toxicology Interpretation*. SOFT Annual Meeting Workshop.
- Feb 2006: *Introduction to Measurement Uncertainty*. American Association for Laboratory Accreditation.
- May 2006: *Crime Laboratory Development Symposium*.
- Feb 2007: *Applied Biosystems/MDS SCIEX Workshop*.
- May 2008: *Crime Laboratory Development Symposium*.
- Feb 2009: *Measurement Uncertainty Workshop*. AAFS Annual Meeting Workshop.
- Aug 2010: *Crime Laboratory Development Symposium*.
- Oct 2010: *Emergence of Synthetic Cannabinoids*. Drug Enforcement Administration.
- Dec 2010: *Forensic Toxicology*. California Criminalistics Institute.
- Jan 2011: *Managing Projects*. ESI International.
- Feb 2011: *Extrapolating Blood Alcohol*. AAFS Annual Meeting Workshop.

- Apr 2011: *Forensic Metrology*. ASCLD-LAB.
- Feb 2012: *The Anatomy of Error: Dissecting Adverse Events to Strengthen the Forensic Sciences*. AAFS Annual Meeting Workshop.
- Jul 2012: *Management for Dummies and Smarties, Too*. SOFT Annual Meeting Workshop.
- Aug 2012: *Cause Mapping. How to Analyze, Document, Communicate, and Solve Problems Effectively*. ThinkReliability.
- Feb 2013: *Melendez-Diaz, Bullcoming, and Williams: Scientific Evidence and the Right to Confrontation*. AAFS Annual Meeting Workshop.
- Jun 2014: *Prescription for Criminal Justice Forensics*. American Bar Association.
- Jun 2014: *Cause Mapping. How to Analyze, Document, Communicate, and Solve Problems Effectively*. ThinkReliability.
- Feb 2018: *Pharmacogenomics: Uses in Forensic and Clinical Toxicology*. AAFS Annual Meeting Workshop.
- Feb 2018: *Fentalogs: The Chemistry, Pharmacology, and Toxicology of Illicit Fentanyl and Emerging Opioids*. AAFS Annual Meeting Workshop.
- Oct 2018: *Emerging Drugs*. SOFT Annual Meeting Workshop.
- Oct 2018: *How Do You Analyze for That?* SOFT Annual Meeting Workshop.
- Nov 2018: *ISO17025*. ANAB Training.
- Jan 2022: *Assessment of Performance and Uncertainty in Qualitative Chemical Analysis*. CITAC/EURACHEM Webinar.
- May 2022: *Alcohol: A Global Perspective*. TIAFT Webinar.
- May 2023: *Emerging Drug Challenges*. TIAFT Webinar.
- Aug 2023: *ANSI/ASB Standard 054 Standard for a Quality Control Program in Forensic Toxicology Laboratories*. AAFS Webinar.
- Apr 2023: *TIAFT 60th Anniversary Jubilee*
- Feb 2024: *Emerging Semi-Synthetic Cannabinoids, THC Isomers, and Analogs*. AAFS Annual Meeting Workshop.
- Oct 2024: *More Likely Than Not: Navigating Civil Cases in Forensic Toxicology*. SOFT Annual Meeting Workshop.

PRESENTATIONS & TECHNICAL INSTRUCTION PROVIDED

General Forensic Toxicology:

- Jun 1996: *Forensic Toxicology*. DEA International Training Conference - Alexandria, Virginia.
- Jul 1996: *Forensic Chemistry and Toxicology*. Aspen Systems, Inc. - Rockville, Maryland.
- Sep 1996: *Forensic Toxicology*. DEA International Training Conference - Alexandria, Virginia.

- Jun 1997: *Forensic Toxicology*. DEA International Training Conference - Alexandria, Virginia.
- Jul 1997: *The Use of Chromatography in Forensic Toxicology. Chromatographic Methods in Forensic Science*. Federal Bureau of Investigation – Quantico, Virginia.
- Jul 1997: *Murder by Poison*. Annual Meeting of the American Association of Clinical Chemists - Atlanta, Georgia.
- Mar 1998: *The Use of Chromatography and Mass Spectrometry in Forensic Toxicological Examinations. Chromatographic Methods in Forensic Science*. Federal Bureau of Investigation – Quantico, Virginia.
- Aug 1998: *Forensic Toxicology*. DEA International Training Conference - Alexandria, Virginia.
- Feb 2001: *Homicidal Poisonings*. AAFS Annual Meeting, - Seattle, Washington.
- May 2001: *Homicidal Poisonings*. California Association of Toxicologists Quarterly Meeting, San Diego, California.
- Mar 2008: *Drug and Alcohol Interactions*. ESR Fellowship. Auckland, Wellington, and Christchurch, New Zealand.
- Mar 2008: *Case Studies of Unique Poisonings*. ESR Fellowship. Auckland, Wellington, and Christchurch, New Zealand.
- Aug 2008: *Unique Poisons in Postmortem Toxicology*. Florida Association of Medical Examiners Conference, Ponte Vedra Beach, Florida.
- July 2010: *Certification, Accreditation, and Proficiency Testing in Forensic Toxicology*. Interagency Working Group. Washington, DC.
- Aug 2010: *The Role of Variations in Growth Rate and Sample Collection on Interpreting Results of Segmental Analyses of Hair*. TIAFT Annual Meeting, Bonn, Germany.
- Oct 2010: *The Effect of Growth Rate and Sample Collection on Segmental Analyses of Hair*. SOFT Annual Meeting. Richmond, Virginia.
- Feb 2011: *The Uncertainty of Hair Analysis*. AAFS Annual Meeting, Chicago, Illinois.
- May 2011: *Challenges of Interpreting Results of Hair Analysis*. California Association of Toxicologists. Napa, California.
- Mar 2013: *Unique Poisons*. Missouri Coroners and Medical Examiners Association Annual Training. Jefferson City, Missouri.
- Nov 2015: *Quaternary Ammonium Neuromuscular Blocking Agents*. South American Regional TIAFT Meeting. Arequipa, Peru.
- Sep 2016: *Background on MDI Toxicological Testing Issues: Forensic Toxicology*. NIST Workshop on Toxicological Testing in MDI. Gaithersburg, Maryland.
- Apr 2017: *An Overview of Forensic Toxicology*. George Mason University, Fairfax, Virginia.
- Apr 2018: *An Overview of Forensic Toxicology*. George Mason University, Fairfax, Virginia.
- Mar 2019: *An Overview of Forensic Toxicology*. George Mason University, Fairfax, Virginia.
- Apr 2020: *An Overview of Forensic Toxicology*. George Mason University, Fairfax, Virginia.

May 2020: *Forensic Toxicology for Dummies...And Smarties, Too!* American Association of Tissue Banks, Online Training.

Analytical Method in Forensic Toxicology:

- Oct 1998: *Direct Analysis of Urine for Succinylcholine.* SOFT/TIAFT Meeting. Albuquerque, New Mexico.
- Feb 1999: *The Analysis of Biofluids for Flunitrazepam and Metabolites by Electrospray LC/MS.* AAFS Annual Meeting - Orlando, Florida.
- Oct 1999: *Analytical Issues Surrounding Drug-Facilitated Assaults.* SOFT Meeting - Rio Mar, Puerto Rico.
- Oct 1999: *Rapid Analysis of Biofluids for GHB and GBL using Headspace GC-FID and GC-MS.* SOFT Meeting - Rio Mar, Puerto Rico.
- Oct 2000: *The Use of LC/MS and LC/MSⁿ to Solve Analytical Challenges in Forensic Toxicology.* SOFT Annual Meeting - Milwaukee, Wisconsin.
- Oct 2000: *A Comparison of Instrumental Approaches to Benzodiazepines Analysis: A Case Study.* SOFT Annual Meeting - Milwaukee, Wisconsin.
- Sep 2002: *Fentanyl in Hair by LC/MS and LC/MS/MS.* TIAFT Annual Meeting. Paris, France.
- Aug 2006: *Mivacurium and Metabolites by LC/FLU and LC/MS/MS.* TIAFT Annual Meeting, Ljubljana, Slovenia.
- Aug 2007: *An Automated SPE-LC-MS/MS System for the Analysis of Cocaine and Metabolites in Blood and Urine.* TIAFT Annual Conference, Seattle, Washington.
- Oct 2007: *An Automated SPE-LC-MS/MS System for the Analysis of Cocaine and Metabolites in Blood and Urine.* South American Regional Conference of TIAFT - Bogota, Columbia.
- Feb 2008: *The Toxicological Analysis of Evidence in the Jackson Case.* American Academy of Forensic Sciences, Washington, DC.
- Dec 2009: *Unique Applications of LC/MS in Forensic Toxicology.* California Criminalistics Institute, Los Angeles, California.
- Mar 2010: *Unique Applications of LC/MS in Forensic Toxicology.* University of Central Missouri, Warrensburg, Missouri.
- Nov 2017: *Quantitation in Postmortem Toxicology.* TIAFT Regional Meeting. Calarca, Colombia.
- Oct 2019: *The History of Benzodiazepines.* Society of Forensic Toxicologists Annual Meeting. San Antonio, Texas.

Drug-Facilitated Sexual Assault (DFSA):

- Sep 1998: *The Toxicological Investigation of Drug-Facilitated Sexual Assaults.* New York State Forensic Toxicology Seminar - Albany, New York.
- Nov 1998: *Drug-Facilitated Sexual Assault.* New York Prosecutors Training Institute, Inc., Queens County, New York.
- Apr 1999: *The Toxicological Investigation of Drug-Facilitated Sexual Assaults.* Southern Association of Toxicologists - Houston, Texas.

- Jun 1999: *The Toxicological Investigation of Drug-Facilitated Sexual Assaults*. Henry Lee Institute. Meriden, Connecticut.
- Jun 1999: *The Toxicological Investigation of Drug-Facilitated Sexual Assaults*. Virginia Campus Law Enforcement Association - Virginia Beach, Virginia.
- Sep 1999: *The Investigation of Drug-Facilitated Sexual Assaults*. Salt Lake City Police and Crime Lab Personnel. Salt Lake City, Utah.
- Oct 1999: *Analytical Issues Surrounding Drug-Facilitated Assaults*. SOFT Meeting - Rio Mar, Puerto Rico.
- Apr 2000: *The Investigation of Drug-Facilitated Sexual Assaults*. Los Angeles Police and Crime Lab Personnel. Los Angeles, California.
- May 2000: *Drug-Facilitated Sexual Assaults*. National Organization of Women - National Judicial Education Program. Chicago, Illinois.
- May 2000: *Investigations of Drug-Facilitated Sexual Assaults*. New York State Police Sex Offense Seminar. Albany, New York.
- Jun 2000: *Drug-Facilitated Sexual Assaults*. National Organization of Women - National Judicial Education Program. Burlington, Vermont.
- Jan 2001: *Drug-Facilitated Sexual Assaults*. Third National Symposium on Victims of Federal Crime. Washington, DC.
- Feb 2001: *Managing and Testifying in Drug-Facilitated Sexual Assault Cases*. AAFS Annual Meeting, - Seattle, Washington.
- Feb 2001: *Drug-Facilitated Sexual Assault: An FBI Perspective*. AAFS Annual Meeting, - Seattle, Washington.
- Mar 2001: *Investigations of Drug-Facilitated Sexual Assaults*. California Sexual Assault Investigators Association Meeting - Shell Beach, California.
- Apr 2001: *Investigations of Drug-Facilitated Sexual Assaults*. Southern Indiana Sexual Assault Training Project - New Albany, Indiana.
- May 2001: *Toxicological Investigations of Drug-Facilitated Sexual Assaults*. First National Sexual Assault Response Team Conference - San Antonio, Texas.
- Sep 2001: *Toxicological Investigations and Evidence Collection in Drug-Facilitated Sexual Assault Cases*. 7th International Congress of Therapeutic Drug Monitoring and Clinical Toxicology - Washington, DC.
- Mar 2002: *Drug-Facilitated Sexual Assault – Toxicology: What You Need to Know*. International Conference on Domestic Violence, Sexual Assault and Stalking. San Diego, California.
- Mar 2002: *Overcoming the Challenges of Drug-Facilitated Sexual Assault Investigations*. Pittsburgh Conference. New Orleans, Louisiana.
- Mar 2002: *Drug-Facilitated Sexual Assault Investigations*. Missouri Office of Prosecution Services Spring Statewide Training, Osage Beach, Missouri.
- Aug 2002: *Toxicological Investigations of Drug-Facilitated Sexual Assault*. Drug Enforcement Administration Victim Witness Conference, Las Vegas, Nevada.
- Oct 2002: *Managing and Testifying in Drug-Facilitated Sexual Assault Cases*. SOFT Annual Meeting, Dearborn, Michigan.

- Dec 2002: *Toxicological Investigations of Drug-Facilitated Sexual Assault*. New York City Alliance Against Sexual Assault, New York, New York.
- May 2003: *Evidence Collection in DFSA Cases: Clinical and Forensic Issues*. Gamma Hydroxybutyrate: Spotlight on GHB Conference. Orlando, Florida.
- May 2003: *Drug-Facilitated Sexual Assault: Why We Fail...How We Can Succeed*. Second National Sexual Assault Response Team Conference – New Orleans, Louisiana.
- May 2003: *Toxicological Investigations of Drug-Facilitated Sexual Assault*. Colorado Coalition Against Sexual Assault – Breckenridge, Colorado.
- Sep 2003: *Drug-Facilitated Sexual Assault: The U.S. Perspective*. International Association on Therapeutic Drug Monitoring and Clinical Toxicology, Basel Switzerland.
- Nov 2003: *The Challenges of Drug-Facilitated Sexual Assault*. New Zealand and Australia Forensic Science Society, Sydney, Australia.
- Nov 2003: *Drug-Facilitated Sexual Assault*. TIAFT Annual Meeting, Melbourne, Australia.
- Mar 2004: *DFSA Investigations: What's New With DFSA*. California Sexual Assault Investigators Association Meeting - Shell Beach, California.
- Apr 2004: *Drug-Facilitated Sexual Assault*. The Other Half of the Solution: Men Taking a Stand to End Sexual Violence. New Jersey Coalition Against Sexual Assault – Long Branch, New Jersey.
- Jun 2004: *Challenges of Drug-Facilitated Sexual Assault*. Attorney General's Sexual Assault Task Force, SART Training, Eugene, Oregon.
- Jun 2004: *Drug-Facilitated Sexual Assault*. Maryland Coalition Against Sexual Assault. Columbia, Maryland.
- Aug 2004: *Managing Cases of DFSA*. FBI Laboratory Symposium on Forensic Toxicology. Washington, DC.
- Sep 2004: *The Toxicological Evidence in Drug-Facilitated Sexual Assault Cases*. Spotlight on GHB Conference. Las Vegas, Nevada.
- Oct 2004: *Drug-Facilitated Sexual Assault Training for Forensic Scientists*. NEAFS Conference. Mystic, Connecticut.
- Mar 2005: *Drug-Facilitated Sexual Assault*: Federal Conference for Victims of Crime, Atlanta, Georgia.
- Mar 2005: *The Challenges of Drug-Facilitated Sexual Assault*. Louisiana SANE/SART Program, Baton Rouge, Louisiana.
- Jun 2005: *Recommendations for Combating Drug-Facilitated Sexual Assault*, Third National SART Training Conference, San Francisco, California.
- Jul 2005: *The Toxicological Evidence in Drug-Facilitated Sexual Assault Cases*. Columbia, South Carolina.
- Sep 2005: *Drug-Facilitated Sexual Assault*. The Peace Corps, Washington, DC.
- Oct 2005: *Drug-Facilitated Sexual Assault*. The EVAW International Conference on Sexual Assault, Domestic Violence, and Stalking. Baltimore, Maryland.
- Nov 2005: *Recommendations for Combating Drug-Facilitated Sexual Assault*, Los Angeles Chief of Police Conference, Los Angeles, California

- Apr 2006: *Recommendations for Combating Drug-Facilitated Sexual Assault*. Armed Forces Institute of Pathology Conference Against Sexual Violence, Rockville, Maryland.
- Apr 2006: *Drug-Facilitated Sexual Assault*. EVAW Conference, Kansas City, Missouri.
- Jun 2006: *Challenges of Drug-Facilitated Crimes*. Deutsche Pharmazeutische Gesellschaft, Saar, Germany.
- Oct 2006: *Overcoming the Toxicological Challenges of Drug-Facilitated Sexual Assault*. SOFT Annual Meeting, Austin, Texas.
- Feb 2007: *Finding the Needle in the Haystack: Improving the Toxicological Analysis of Drug-Facilitated Sexual Assault and Other Crimes*. AAFS Annual Meeting, San Antonio, Texas.
- Apr 2007: *Alcohol-Facilitated Sexual Assault*. EVAW International Conference, Houston, Texas.
- Sep 2007: *Drug-Facilitated Crimes – The U.S. Perspective*. International Association of Therapeutic Drug Monitoring and Clinical Toxicology Conference, Nice, France.
- Oct 2007: *Managing Drug-Facilitated Sexual Assault Cases*. SOFT Annual Meeting - Durham, North Carolina.
- Oct 2007: *Drug-Facilitated Crimes – The U.S. Perspective*. South American Regional Conference of TIAFT - Bogota, Columbia.
- Mar 2008: *Challenges of Drug Facilitated Sexual Assault*. ESR Fellowship. Auckland, Wellington, and Christchurch, New Zealand.
- Mar 2008: *Use of Benzodiazepines in Drug Facilitated Crimes*. ESR Fellowship. Auckland, New Zealand.
- Mar 2008: *Management of DFSA Cases*. ESR Fellowship. Wellington, New Zealand.
- Apr 2008: *Alcohol Facilitated Sexual Assault*. EVAW International Conference, New Orleans, Louisiana.
- Apr 2008: *Challenges of Drug Facilitated Sexual Assault*. DePaul University Center for Law and Science, Chicago, Illinois.
- May 2008: *Drug-Facilitated Sexual Assault Investigations*. Nebraska State Police Sexual Assault Conference, Grand Island, Nebraska
- Nov 2008: *GHB and Drug-Facilitated Crimes*. South American Regional TIAFT Meeting, Buenos Aires, Argentina.
- Feb 2009: *Alcohol and Drug-Facilitated Sexual Assault Investigations*. Gwinnett Justice Center, Gwinnett County, Georgia.
- Mar 2009: *GHB and Drug-Facilitated Sexual Assault*. Thailand Regional TIAFT Meeting, Bangkok, Thailand.
- May 2009: *Alcohol and Drug-Facilitated Sexual Assault Investigations*. EVAW International Conference, Anaheim, California.
- May 2009: *Drug-Facilitated Sexual Assault*. SANE/SART Conference, Seattle, Washington.
- Mar 2010: *Drug-Facilitated Crimes*. Florida Council Against Sexual Violence. Online Course.
- Apr 2010: *Challenges of Drug-Facilitated Sexual Assault*. Arizona Sexual Assault Network, Pinal County Sheriff's Office, Arizona.

- Jun 2010: *Managing Drug Facilitated Sexual Assault Cases*. Armed Forces Institute of Pathology. Rockville, Maryland.
- Jun 2010: *Challenges of Drug-Facilitated Sexual Assault*. Washington DC Sexual Assault Response Team, Washington, DC.
- Jan 2010: *An Overview of the Challenges of Drug-Facilitated Sexual Assault*. Duquesne University. Pittsburgh, Pennsylvania.
- Mar 2011: *Effective Management of Drug-Facilitated Sexual Assault Cases*. United Nations Office on Drugs and Crime. Vienna, Austria.
- Mar 2011: *Drug-Facilitated Sexual Assaults*. Regional TIAFT Meeting. Zagreb, Croatia.
- May 2011: *Challenges of Drug-Facilitated Sexual Assault*. Franklin County Sexual Assault Team. Washington, Missouri.
- Nov 2012: *Drug-Facilitated Crimes and the Future of Forensic Toxicology*. University of Zurich – Institute of Forensic Medicine. Zurich, Switzerland.
- Apr 2013: *Voluntary Intoxication: It's Not a Crime, You Know (Alcohol-Facilitated Sexual Assault)*. End Violence Against Women International. Baltimore, Maryland.
- Apr 2013: *Drug-Facilitated Crimes*. 50th Anniversary Celebration of The International Association of Forensic Toxicologists. London, England.
- Apr 2014: *Drug and Alcohol Facilitated Sexual Assault*. Tribal Liaison, Tribal SAUSA, and Indian Country AUSA Training. Columbia, South Carolina.
- May 2014: *Voluntary Intoxication: It's Not a Crime, You Know*. Wyoming Sexual Assault Summit. Riverton, Wyoming.
- Aug 2014: *Alcohol's Role in Drug-Facilitated Crimes*. SOFT Continuing Education Workshop. Washington, DC.
- Aug 2014: *The Toxicology of Alcohol*. Prosecuting Alcohol Facilitated Sexual Assault. U.S. Navy. Newport, Rhode Island.
- Apr 2015: *Alcohol Facilitated Sexual Assault*. End Violence Against Women International Annual Meeting. New Orleans, Louisiana.
- Apr 2015: *Drug and Alcohol Facilitated Sexual Assault*. Complicated Investigations: Successful SART Response to Alcohol and Drug-Facilitated Sexual Assault. Columbus, Ohio.
- Jul 2015: *Drug and Alcohol Facilitated Sexual Assault*. National Guard Office of Complex Investigations. Arlington, Virginia.
- Mar 2016: *Drug-Facilitated Sexual Assault*. Marshall University Forensic Science Program. Huntington, West Virginia.
- Mar 2016: *Challenges of Drug-Facilitated Sexual Assaults*. End Violence Against Women International Annual Meeting. Washington, DC.
- May 2016: *Alcohol and Drug-Facilitated Sexual Assault Investigations*. Gwinnett Justice Center, Gwinnett County, Georgia.
- May 2016: *The Challenges of Drug-Facilitated Sexual Assault*. Law Enforcement Training Conference, Los Angeles, California.

- May 2016: *Understanding the Unique Characteristics of Sexual Assault Cases Involving Incapacitated Victims*. Rape Treatment Center, Santa Monica – UCLA Medical Center, Los Angeles, California.
- May 2016: *Toxicological Challenges of Drug-Facilitated Sexual Assault Investigations*. Regional TIAFT Meeting. Cape Town, South Africa.
- Feb 2017: *The Challenges of Drug-Facilitated Sexual Assault*. Title IX Coordinators Meeting, California State University System, San Diego, California.
- Dec 2017: *Drug-Facilitated Crimes*. XIV Catalan Conferences – Update in Forensic Medicine. Barcelona, Spain.
- Jan 2018: *SOFT DFC Committee and OSAC Testing Recommendations for Evidence of Drug-Facilitated Crimes*. Joint Meeting of SOFT/TIAFT. Boca Raton, Florida.
- Apr 2018: *Alcohol and Drug-Facilitated Sexual Assault*. End Violence Against Women International Conference. Chicago, Illinois.
- Apr 2018: *Challenges of Alcohol- and Drug-Facilitated Sexual Assault*. International Association of College Law Enforcement Administrators. Savannah, Georgia.
- May 2018: *Drug- and Alcohol-Facilitated Sexual Assault*. Southeastern Pennsylvania Forensic Nursing Conference. Abington, Pennsylvania.
- Jun 2018: *Challenges of Alcohol- and Drug-Facilitated Sexual Assault*. International Association of College Law Enforcement Administrators. Atlanta, Georgia.
- Jun 2018: *Challenges of Alcohol- and Drug-Facilitated Sexual Assault*. International Association of College Law Enforcement Administrators. Athens, Georgia.
- Sep 2018: *To Find a Needle in the Haystack, It Helps to Know Where to Look: The Challenges of Drug-Facilitated Sexual Assault Investigations*. Midwest Association of Forensic Sciences. Indianapolis, Indiana.
- Nov 2018: *Drug and Alcohol Facilitated Sexual Assault*. TIAFT Regional Meeting. Buenos Aires, Argentina.
- Nov 2018: *An Overview of Drug- and Alcohol-Facilitated Sexual Assault*. University of Maron. Buenos Aires, Argentina.
- Nov 2018: *The Challenges of Drug and Alcohol Facilitated Sexual Assault*. Gwinnett County, Georgia.
- Dec 2018: *The Challenge: Drug and Alcohol Facilitated Sexual Assault*. Maryland Coalition Against Sexual Assault. College Park, Maryland.
- 2019 – 2024: *Investigating Drug- and Alcohol-Facilitated Sexual Assault*. U.S. Army. Fort Leonard Wood, Missouri. Recurring 6 to 8 times per year.
- Feb 2019: *The Challenges of Drug- and Alcohol-Facilitated Sexual Assault*. U.S. Coast Guard. Federal Law Enforcement Training Center. Brunswick, Georgia.
- Mar 2019: *The Challenge: Drug- and Alcohol-Facilitated Sexual Assault*. Maryland Coalition Against Sexual Assault. Frederick, Maryland.
- May 2019: *Introduction to Drug- and Alcohol-Facilitated Sexual Assault*. California Association of Toxicology. Monterey, California.
- May 2019: *Use of GHB, Chloral Hydrate, and Inhalants in DFSA*. California Association of Toxicology. Monterey, California.

- May 2019: *Overcoming the Challenges of Drug- and Alcohol-Facilitated Sexual Assault*. California Association of Toxicology. Monterey, California.
- May 2019: *Drug-Facilitated Sexual Assaults*. TIAFT Regional Meeting. Shanghai, China.
- Jun 2019: *The Challenge of Drug- and Alcohol-Facilitated Sexual Assault*. Goucher College. Towson, Maryland.
- Jun 2019: *Drug and Alcohol Facilitated Sexual Assault: An Update*. FACTA Conference. Adelaide, Australia.
- Jun 2019: *Drug and Alcohol Facilitated Sexual Assault*. Health Sciences Authority. Singapore.
- Sep 2019: *Toxicological Findings from Alleged Sexual Assault Victims in Native American Communities: 2011-2018*. TIAFT Annual Conference. Birmingham, United Kingdom.
- Oct 2019: *An Overview of Drug and Alcohol Facilitated Sexual Assault*. Arcadia University. Glenside, Pennsylvania.
- Oct 2019: *The Challenges of Drug and Alcohol Facilitated Sexual Assault*. Center for Forensic Science Research and Education. Willow Grove, Pennsylvania.
- Dec 2019: *The Challenge: Drug and Alcohol Facilitated Sexual Assault*. Maryland Coalition Against Sexual Assault. Salisbury, Maryland.
- Mar 2021: *Toxicology in Drug Facilitated Crimes*. Queen Mary University of London. Online Lecture.
- Jan 2022: *Understanding the Challenges of Drug-Facilitated Sexual Assaults*. AAFS Webinar. Online Lecture.
- Jun 2022: *The Challenges of Drug-Facilitated Crimes*. University of Jena. Jena, Germany.
- Sep 2022: *Overview of Drug-Facilitated Crimes and Associated Investigative Challenges*. DrugImpairment.com. On-Demand Lecture.
- Sep 2022: *The Alcohol Connection in Drug-Facilitated Crimes*. DrugImpairment.com. On-Demand Lecture.
- Dec 2022: *The Challenges of Drug and Alcohol Facilitated Sexual Assault*. Alexandria Community Services Board. Webinar.
- Dec 2022: *Drug and Alcohol Facilitated Sexual Assault*. Georgetown University Police Department. Washington, DC.
- Apr 2023: *An Overview of Alcohol and Drug Facilitated Sexual Assault*. Walter Reed Medical Center. Bethesda, Maryland.
- Sep 2023: *Overcoming the Challenges of Alcohol and Drug-Facilitated Sexual Assault*. Office of Special Trial Counsel. Fort Belvoir, Virginia.
- Oct 2023: *Understanding the Challenges of Drug-Facilitated Sexual Assaults*. Pennsylvania Chapter of the International Association of Forensic Nurses. Online Training.
- Oct 2023: *The Challenge: Drug and Alcohol Facilitated Sexual Assault*. Maryland Coalition Against Sexual Assault. Frederick, Maryland.
- Oct 2023: *Fighter Pilot, Astronaut, ER Doctor, and Spy: The Case of Jeffrey Marsalis*. DFC Workshop. SOFT Annual Meeting. Denver, Colorado.

- Oct 2023: *All Pro NFL Safety and Serial Rapist: The Case of Darren Sharper*. DFC Workshop. SOFT Annual Meeting. Denver, Colorado.
- Mar 2024: *Drug-Facilitated Crimes*. American University. Washington, DC.
- Sep 2024: *The Challenges of Drug and Alcohol-Facilitated Sexual Assault*. Forensic Nurse Network. Columbus, Ohio.
- Sep 2024: *The Challenges of Drug and Alcohol-Facilitated Sexual Assault*. John Jay College. New York, New York.

Method Validation:

- Dec 2009: *Method Validation*. California Criminalistics Institute, Los Angeles, California.
- May 2010: *Method Validation in Forensic Toxicology*. Mongolian Forensic Science Laboratory, Ulan Bator, Mongolia.
- Dec 2010: *Method Validation in Forensic Toxicology*. California Criminalistics Institute. Huntington Beach, California.
- Apr 2012: *Method Validation in Forensic Toxicology*. Regional TIAFT Meeting. Moscow, Russia.
- Jul 2012: *LC/MS Method Validation in Forensic Toxicology*. SOFT Annual Meeting. Boston, Massachusetts.
- Nov 2012: *Basic Statistics and Method Validation*. NEAFS Annual Meeting. Saratoga Springs, New York.
- Mar 2013: *Basic Statistics and Method Validation*. US Postal Inspection Service Forensic Laboratory. Dulles, Virginia.
- Oct 2013: *SWGTOX Principles of Method Validation in Forensic Toxicology*. SOFT Annual Meeting. Orlando, Florida.
- May 2014: *Method Validation in Forensic Toxicology*. Regional TIAFT Meeting. Izmir, Turkey.
- May 2014: *SWGTOX Principles of Method Validation in Forensic Toxicology*. SOFT Continuing Education Workshop. Springfield, Illinois.
- Sep 2014: *SWGTOX Principles of Method Validation in Forensic Toxicology*. SOFT Continuing Education Workshop. Albany, New York.
- Nov 2014: *Method Validation in Forensic Toxicology*. TIAFT Annual Meeting. Buenos Aires, Argentina.
- May 2015: *Method Validation in Forensic Toxicology Laboratories*. TIAFT Regional Meeting. Tashkent, Uzbekistan.
- Jun 2015: *SWGTOX Principles of Method Validation in Forensic Toxicology*. SOFT Continuing Education Workshop. Milwaukee, Wisconsin.
- May 2016: *Method Validation in Forensic Toxicology Laboratories*. Regional TIAFT Meeting. Cape Town, South Africa.
- May 2017: *Method Validation in Forensic Toxicology*. Regional TIAFT Meeting, Romania.
- Jun 2017: *Validation Guidelines*. Method Validation Workshop. SOFT. Washington, DC.
- Jan 2018: *Method Validation Overview*. Joint Meeting of SOFT/TIAFT. Boca Raton, Florida.

- Apr 2018: *Method Validation in Forensic Toxicology*. Centers for Disease Control. Atlanta, Georgia.
- May 2019: *Method Validation in Forensic Toxicology*. Ministry of Security. Beijing, China.
- Jun 2022: *Method Validation in Forensic Toxicology*. North Dakota Office of Attorney General – Crime Laboratory Division. Bismarck, North Dakota.
- Nov 2023: *Method Validation in Forensic Toxicology*. Florida Forensic Toxicology Symposium. Largo, Florida.

Uncertainty of Measurement:

- Oct 2006: *Uncertainty of Quantitative Measurements*. SOFT Annual Meeting, Austin, Texas.
- Nov 2007: *Measurement "Certainty" in Forensic Science*. Northeast Association of Forensic Science Meeting, Lake George, New York.
- Mar 2008: *Measurement Uncertainty*. ESR Fellowship. Wellington, New Zealand.
- Oct 2008: *A Simplified Approach to Measurement Uncertainty*. SOFT Annual Meeting, Phoenix, Arizona.
- 2009-2010: *Measurement Uncertainty in Forensic Chemistry and Toxicology*. RTI Online Courses. Multiple classes were provided.
- Apr 2010: *Measurement Uncertainty in Forensic Toxicology*. Southwestern Association of Toxicologists, Dallas, Texas.
- Feb 2012: *Measurement Uncertainty*. AAFS Annual Meeting. Atlanta, Georgia.
- Apr 2013: *Measurement Uncertainty*. US Postal Inspection Service Forensic Laboratory. Dulles, Virginia.
- July 2014: *Measurement Uncertainty in Forensic Toxicology*. NIDA. Baltimore, Maryland.
- Oct 2019: *Workshop on Estimating the Uncertainty of Measurements*. TIAFT Regional Meeting. Sao Paulo, Brazil.
- Nov 2019: *Uncertainty of Measurement*. Medical Examiner's Office. Washington, DC
- May 2022: *A Standard Approach to Estimating Measurement Uncertainty in Forensic Toxicology*. Current Trends in Forensic Toxicology Symposium. Online Lecture.
- Jun 2022: *Estimating Measurement Uncertainty in Forensic Toxicology*. North Dakota Office of Attorney General – Crime Laboratory Division. Bismarck, North Dakota.
- Dec 2022: *A Standard Approach to Estimating Measurement Uncertainty in Forensic Toxicology*. Latin American Regional TIAFT Conference. Mexico City, Mexico.
- Nov 2023: *Estimating Measurement Uncertainty in Forensic Toxicology*. Florida Forensic Toxicology Symposium. Largo, Florida.
- Dec 2023: *Estimating Measurement Uncertainty in Forensic Toxicology*. Saint Louis County Medical Examiner's Office. Berkely, Missouri.

Gamma Hydroxybutyrate (GHB):

- Oct 1999: *Rapid Analysis of Biofluids for GHB and GBL using Headspace GC-FID and GC-MS*. SOFT Meeting - Rio Mar, Puerto Rico.

- Aug 2000: *The Effect of Storage Temperature on Endogenous GHB Levels in Urine*. TIAFT Annual Meeting - Helsinki, Finland.
- Oct 2000: *Intra- and Interindividual Variations in Urinary Levels of Endogenous GHB*. SOFT Annual Meeting - Milwaukee, Wisconsin.
- Aug 2001: *Intra- and Interindividual Variations in Urinary Levels of Endogenous GHB*. TIAFT Annual Meeting. Prague, Czech Republic.
- Oct 2001: *Does Creatinine-Normalization Decrease the Variations in Urinary Levels of Endogenous GHB?* SOFT Annual Meeting. New Orleans, Louisiana.
- Feb 2002: *The Interpretation of GHB in Biological Specimens as part of GHB: Old Substance, New Problem*. AAFS Annual Meeting, Atlanta, Georgia.
- Aug 2005: *A Comprehensive Study on the Variations of Urinary Concentrations of Endogenous GHB*. TIAFT Annual Meeting. Seoul, South Korea.
- Aug 2006: *Further Evidence of In Vitro Production of GHB in Urine*. TIAFT Annual Meeting, Ljubljana, Slovenia.
- Mar 2007: *Endogenous Concentrations of GHB in Human Urine*. National GHB Conference, Arlington, Texas.

General Forensic Chemistry Topics:

- Jul 1996: *Forensic Chemistry and Toxicology*. Aspen Systems, Inc. - Rockville, Maryland.
- May 1997: *Submission of Chemistry Evidence*. Evidence Program In-Service - Quantico, Virginia.
- Feb 2000: *Differentiation of Bufotenine and Psilocin by GC/MS(CI)*. AAFS Annual Meeting - Reno, Nevada.
- Feb 2000: *Brodifacoum Identification by Electrospray LC/MS and LC/MS/MS/MS*. AAFS Annual Meeting - Reno, Nevada.
- Apr 2002: *Club Drugs: Dancing with Death*. Sponsored by United States Attorney's Office, Sun Valley, Idaho.
- Apr 2004: *Forensic Chemistry*. Saudi Arabia National Police - Riyadh, Saudi Arabia.
- May 2004: *Application of Analytical Chemistry at the FBI Laboratory*. Analytica Conference, Munich, Germany.
- Aug 2004: *Forensic Chemistry*. FBI Laboratory Symposium on Forensic Toxicology. Washington, DC.
- Feb 2005: *Bank Security Dye Packs and the FBI Laboratory*. AAFS Annual Meeting. New Orleans, Louisiana.
- Feb 2006: *Health Care Fraud*. Health Care Fraud Coordinators' Conference. Columbia, South Carolina.
- Oct 2008: *EDTA Analysis by LC/MS/MS*. SOFT Annual Meeting, Phoenix, Arizona.
- Mar 2010: *Forensic Chemistry*. University of Central Missouri, Warrensburg, Missouri.
- Feb 2013: *Results of the FBI Laboratory's Evaluation of Compositional Bullet Lead Analysis Testimonies*. AAFS Annual Meeting. Washington, DC.
- Oct 2020: *Fingerprint Development Methods for Touch Chemistry of Drugs and Explosives Using MALDI/TOF MS*. Analytica Conference. Online Presentation.

Forensic Science Improvement and Standards Development:

- Sep 2013: *It's the End of the World as We Know It – And I Feel Fine.* TIAFT Annual Meeting. Funchal, Madeira.
- Feb 2014: *Root Cause Analysis – Compositional Bullet Lead Analysis.* AAFS Annual Meeting. Seattle, Washington.
- Jun 2015: *Root Cause Analysis.* Crime Laboratory Managers Training. Texas Commission on Forensic Science. Austin, Texas.
- Feb 2016: *Chairing an OSAC Subcommittee.* American Academy of Forensic Sciences Workshop. Las Vegas, Nevada.
- May 2016: *Effective Root Cause Analysis in Forensic Toxicology.* Regional TIAFT Meeting. Cape Town, South Africa.
- May 2017: *Effective Root Cause Analysis in Forensic Toxicology.* Regional TIAFT Meeting, Romania.
- Jun 2017: *Overview of the FBI Laboratory Services.* Medical College of Wisconsin. Milwaukee, Wisconsin.
- Oct 2017: *Forensic Science Improvements – SWGs, OSAC, NCFs, and ASB.* Marshall University, Huntington, West Virginia.
- Nov 2017: *Root Cause Analyses in Forensic Toxicology.* TIAFT Regional Meeting. Calarca, Colombia.
- Jan 2018: *Cause-Effect Mapping Approach to Root Cause Analyses.* Joint Meeting of SOFT/TIAFT. Boca Raton, Florida.
- Jan 2018: *Updated on Activities of OSAC Toxicology Subcommittee.* Joint Meeting of SOFT/TIAFT. Boca Raton, Florida.
- May 2018: *Forensic Science Improvements in the United States.* TIAFT Regional Meeting. Athens, Greece.
- May 2018: *Root Causes Analysis: A Basic Primer.* TIAFT Regional Meeting. Athens, Greece.
- Sep 2018: *“Turn Right in 1000 Feet”: Mapping Your Causes for Effective Root Cause Analyses.* Midwest Association of Forensic Sciences. Indianapolis, Indiana.
- Oct 2018: *Efforts to Improve Forensic Science in the United States.* TIAFT Regional Meeting. Cappadocia, Turkey.
- Nov 2018: *Quality Assurance Standards in the United States.* TIAFT Regional Meeting. Buenos Aires, Argentina.
- May 2019: *Forensic Science Improvement Efforts in the United States.* TIAFT Regional Meeting. Shanghai, China.
- Jun 2019: *Efforts for Forensic Science Improvement in the United States since the NAS Report.* FACTA Conference. Adelaide, Australia.
- Jun 2019: *When Bad Things Happen to Good Labs: The Cause-Effect Mapping Approach to Root Cause Analysis.* FACTA Conference. Adelaide, Australia.
- Jun 2019: *Efforts for Forensic Science Improvement in the United States.* Health Sciences Authority. Singapore.
- Jun 2019: *Cause Effect Mapping in Forensic Toxicology.* Health Sciences Authority. Singapore.

- Oct 2019: *Update on OSAC and ASB Activities*. Society of Forensic Toxicologists Annual Meeting. San Antonio, Texas.
- Oct 2019: *Understanding ANSI/ASB Best Practice Recommendation 037: Guidelines for Opinions and Testimony in Forensic Toxicology*. Society of Forensic Toxicologists Annual Meeting. San Antonio, Texas.
- Oct 2019: *Identification Point System for Forensic Toxicology*. TIAFT Regional Meeting. Sao Paulo, Brazil.
- Nov 2019: *Forensic Science Improvement Efforts in the United States*. California Association of Toxicology. Ventura, California.
- Nov 2019: *Overview of OSAC and ASB Documents for Forensic Toxicology*. California Association of Toxicology. Ventura, California.
- Oct 2020: *Overview of OSAC and ASB Documents for Forensic Toxicology*. Southwest Association of Forensic Science. Online Lecture.
- Feb 2021: *A Discussion on the Development of Standards for Forensic Toxicology and Their Intended Impact on the Field*. American Academy of Forensic Sciences Annual Meeting. Workshop 9. Online Lecture.
- Jun 2021: *Overview of ASB Standards Development Process*. ANSI /ASB Standard 017: Standard for Measurement Traceability in Forensic Toxicology. American Academy of Forensic Sciences Webinar. Online Lecture.
- Jun 2021: *Overview of OSAC/ASB Documents for Forensic Toxicology*. London Toxicology Group. Online Lecture.
- Jul 2021: *A Point-Based System for Identification in Forensic Toxicology*. TIAFT Continuing Education Webinar. Online Lecture.
- Nov 2021: *Cause-Effect Mapping Approach to Root Cause Analysis*. XVI Latin-American Regional Meeting of TIAFT. Online Workshop.
- Feb 2022: *ASB Standards and the Role they Play in Impairment Investigations: From Testing to Testimony*. American Academy of Forensic Sciences Annual Meeting. Workshop 6. Seattle, Washington.
- Feb 2022: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. American Academy of Forensic Sciences Annual Meeting. Seattle, Washington.
- Apr 2022: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. Midwest Association for Toxicology and Therapeutic Drug Monitoring Annual Meeting. Kalamazoo, Michigan.
- Apr 2022: *Efforts for Forensic Science Improvement in the United States*. Florida International University. Miami, Florida.
- Apr 2022: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. International Alliance of Clinical and Forensic Toxicology. Online Lecture.
- Jun 2022: *American National Standards for Drug and Metabolite Identification in Forensic Toxicology: A Radical New Concept? Or Simply Jumping onto the Bandwagon?* Analytica Conference. Munich, Germany.
- Nov 2022: *ASB Standards and The Role In Impairment Investigations*. Society of Forensic Toxicologists Annual Meeting. Workshop 6. Cleveland, Ohio.

- Nov 2022: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. Society of Forensic Toxicologists Annual Meeting. Cleveland, Ohio.
- Dec 2022: *Standards for Mass Spectrometry and Identification of Drugs and Metabolites in Forensic Toxicology*. Latin American Regional TIAFT Conference. Mexico City, Mexico.
- Dec 2022: *Scope and Sensitivity Requirements for DUID, DFC, and Postmortem Toxicology*. Latin American Regional TIAFT Conference. Mexico City, Mexico.
- Feb 2023: *The Best Way to Write and Submit Comments*. Workshop 7 – The Seven Habits for Highly Effective Standards. American Academy of Forensic Sciences Annual Meeting. Orlando, Florida.
- Feb 2023: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. American Academy of Forensic Sciences Annual Meeting. Orlando, Florida.
- Jun 2023: *Academy Standards Board (ASB) Overview*. Society of Forensic Toxicologists – Regional Toxicology Liaison 2023 All-Region Meeting. Online Lecture.
- May 2023: *The Best Way to Write and Submit Comments*. The Seven Habits for Highly Effective Standards. OSAC Meeting. Indianapolis, Indiana.
- Jun 2023: *Forensic Toxicology Standards Development at the ASB*. Online Training for the SOFT Regional Toxicology Liaisons.
- Oct 2023: *American National Standards for Drug and Metabolite Identification in Forensic Toxicology: A Radical New Concept? Or Simply Jumping on the Bandwagon?* Waters Lunch and Learn. SOFT Annual Conference. Denver, Colorado.
- Nov 2023: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. SOFT Annual Conference. Denver, Colorado.
- Nov 2023: *The Best Way to Write and Submit Comments*. The Seven Habits for Highly Effective Standards. NIST Standards Bootcamp. Gaithersburg, Maryland.
- Feb 2024: *To Tell the Truth – Perspectives on the Practice of Courtroom Testimony: Perspectives of Forensic Scientists*. American Academy of Forensic Sciences Annual Meeting. Workshop 15. Denver, Colorado.
- Feb 2024: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. American Academy of Forensic Sciences Annual Meeting. Denver, Colorado.
- Oct 2024: *Standards Development Activities for Forensic Toxicology at the OSAC and ASB*. SOFT Annual Conference. St. Louis, Missouri.

PUBLICATIONS

Peer-Reviewed Journals:

1. LeBeau, M., et al. *Recommendations for the Toxicological Investigations of Drug-Facilitated Sexual Assaults*. Journal of Forensic Sciences, Volume 44, Number 1, January 1999.
2. LeBeau, M. *Toxicological Investigations of Drug-Facilitated Sexual Assaults*. Forensic Science Communications, Volume 1, Number 1, 1999.
3. Schwartz, R., Milteer, R., LeBeau, M. *Drug-Facilitated Sexual Assault (Date Rape)*. Southern Medical Journal, Volume 93, Number 6, 2000.

4. LeBeau, M., Montgomery, M., Wagner, J., and Miller, M. *Analysis of Biofluids for Flunitrazepam and Metabolites by Electrospray Liquid Chromatography/Mass Spectrometry*. Journal of Forensic Sciences, Volume 45, Number 5, 2000.
5. LeBeau, M., Montgomery, M., Miller, M., and Burmeister, S. *Analysis of Biofluids for Gamma-Hydroxybutyrate (GHB) and Gamma-Butyrolactone (GBL) by Headspace GC/FID and GC/MS*. Journal of Analytical Toxicology, Volume 24, 2000. <https://doi.org/10.1093/jat/24.6.421>
6. LeBeau, M., Miller, M., and Levine, B. *Effect of Storage Temperature on Endogenous GHB Levels in Urine*. Forensic Science International, Volume 119(2), 2001. [https://doi.org/10.1016/s0379-0738\(00\)00426-6](https://doi.org/10.1016/s0379-0738(00)00426-6)
7. Darby, S., Miller, M., Allen, R., and LeBeau, M. *A Mass Spectrometric Method for Quantitation of Insulin in Blood Samples*. Journal of Analytical Toxicology, Volume 25, 2001. <https://doi.org/10.1093/jat/25.1.8>
8. LeBeau, M.A. *Forensic Toxicology at the FBI Laboratory*. NEACT Journal, Volume 20, Number 1, 2001.
9. LeBeau, M.A., Montgomery, M.A., Schaff, J.E., and Quenzer, C.F. *Fentanyl in Human Hair by Liquid Chromatography Tandem Mass Spectrometry*. Annales de Toxicologie Analytique, 2002.
10. LeBeau, M.A., Christenson, R.H., Levine, B., Darwin, W.D., and Huestis, M.A. *Intra- and Interindividual Variations in Urinary Concentrations of Endogenous Gamma-Hydroxybutyrate (GHB)*, Journal of Analytical Toxicology, Volume 26, 2002. <https://doi.org/10.1093/jat/26.6.340>
11. LeBeau, Marc A., *Quality Assurance Guidelines for Laboratories Performing Forensic Analysis of Chemical Terrorism*, [Forensic Science Communications, Volume 6, Number 2, 2004](https://doi.org/10.1093/jat/26.6.340).
12. Montgomery, Madeline A., LeBeau, Marc A., Miller, Mark L., and Jufer, Rebecca A. *The Identification of Mivacurium and Metabolites in Biological Samples*. Journal of Analytical Toxicology, Volume 29, 2005. <https://doi.org/10.1093/jat/29.7.637>
13. Montgomery, M.A., LeBeau, M.A., Jenkins, A.J. *Qualitative Identification of Doxacurium and its Breakdown Products in Postmortem Fluids by Liquid Chromatography-Tandem Mass Spectrometry*. Journal of Analytical Toxicology, Volume 30, 2006. <https://doi.org/10.1093/jat/30.1.57>
14. LeBeau, M.A. Montgomery, M.A., Morris-Kukoski, C., Schaff, J.E., Deakin, A., Levine, B., *A Comprehensive Study on the Variations of Urinary Concentrations of Endogenous GHB*, Journal of Analytical Toxicology, Volume 30, 2006. <https://doi.org/10.1093/jat/30.2.98>
15. Jagerdeo, E., Leibowitz, J.N., Schumacher, L., Henningsen, D.A., and LeBeau, M. *Analysis of Trace Amount of Bank Dye and Lachrymators from Exploding Bank Devices by Solid-Phase Microextraction and Gas Chromatography-Mass Spectrometry*, Journal of Chromatographic Science, Volume 44, 2006. <https://doi.org/10.1093/chromsci/44.2.86>
16. Bradley, M.J., Keagy, R.L., Lowe, P.C., Rickenbach, M.P., Wright, D.M., and LeBeau, M.A. *A Validation Study for Duct Tape End Matches*, Journal of Forensic Sciences, Volume 51, Number 3, May 2006. <https://doi.org/10.1111/j.1556-4029.2006.00106.x>
17. LeBeau, M. Montgomery, M., Morris-Kukoski, C., Schaff, J., and Deakin, A. *Further Evidence of In Vitro Production of GHB in Urine Samples*, Forensic Science International, Volume 169, 2007. <https://doi.org/10.1016/j.forsciint.2006.08.007>
18. Morris-Kukoski, C.L., Jagerdeo, E., Schaff, J.E., LeBeau, M.A. *Ethanol Analysis from Biological Samples by Dual Rail Robotic Autosampler*; Journal of Chromatography B, Volume 850 (2007). <https://doi.org/10.1016/j.jchromb.2006.11.034>
19. LeBeau, M. *Guidance for Improved Detection of Drugs Used to Facilitate Crimes*. Therapeutic Drug Monitoring, Volume 30, Number 2, April 2008. <https://doi.org/10.1097/ftd.0b013e31816791d7>

20. Jagerdeo, E., Montgomery, M.A., LeBeau, M.A., and Sibum, M. *An Automated SPE/LC/MS/MS Method for the Analysis of Cocaine and Metabolites in Whole Blood*; Journal of Chromatography B, Volume 874 (2008). <https://doi.org/10.1016/j.jchromb.2008.08.026>
21. Jagerdeo, E., Montgomery, M.A., Sibum, M., Sasaki, T.A., and LeBeau, M.A. *Rapid Analysis of Cocaine and Metabolites in Urine Using a Completely Automated Solid-Phase Extraction-High-Performance Liquid Chromatography-Tandem Mass Spectrometry Method*; Journal of Analytical Toxicology, Volume 32, Number 8, (2008). <https://doi.org/10.1093/jat/32.8.570>
22. Jagerdeo, E., Schaff, J.E., Montgomery, M.A., and LeBeau, M.A. *A Semi-Automated Solid Phase Extraction Liquid Chromatography/Tandem Mass Spectrometry Method for the Analysis of Tetrahydrocannabinol and Metabolites in Whole Blood*; Rapid Communications in Mass Spectrometry, Vol 23, No. 17 (2009). <https://doi.org/10.1002/rcm.4174>
23. LeBeau, M.A. and Montgomery, M.A. *Challenges of Drug-Facilitated Sexual Assault*. Forensic Science Review, Volume 22, Number 1 (2010).
24. LeBeau, M.A. and Montgomery, M.A. *The Frequency of Drug-Facilitated Sexual Assault Investigations*. Forensic Science Review, Volume 22, Number 1 (2010).
25. Marinetti, L. and LeBeau, M.A. *The Use of GHB and Analogs to Facilitate Sexual Assault*. Forensic Science Review, Volume 22, Number 1 (2010).
26. LeBeau, M.A. *Laboratory Management of Drug-Facilitated Sexual Assault Cases*. Forensic Science Review, Volume 22, Number 1 (2010).
27. LeBeau, M.A., Montgomery, M.A., Brewer, J. *The Role of Variations in Growth Rate and Sample Collection on Interpreting Results of Segmental Analyses of Hair*. Forensic Science International. Volume 210, Issue 1 (2011). <https://doi.org/10.1016/j.forsciint.2011.02.015>
28. Kaplan-Sandquist, K., LeBeau, M.A., and Miller, M.L. *Chemical Analysis of Pharmaceuticals and Explosives in Fingermarks using Matrix-Assisted Laser Desorption Ionization/Time-of-Flight Mass Spectrometry*. Forensic Science International, Vol 234, (2014). <https://doi.org/10.1016/j.forsciint.2013.11.016>
29. Kaplan-Sandquist, K., LeBeau, M.A., and Miller, M.L. *Evaluation of Four Fingerprint Development Methods for Touch Chemistry Using Matrix-Assisted Laser Desorption Ionization/Time-of-Flight Mass Spectrometry*. Journal of Forensic Sciences, Volume 60, Issue 3, (2015). <https://doi.org/10.1111/1556-4029.12718>
30. Jagerdeo, E., Montgomery, M.A., and LeBeau, M.A. *An Improved Method for the Analysis of GHB in Human Hair by Liquid Chromatography Tandem Mass Spectrometry*. Journal of Analytical Toxicology, Volume 39, Issue 2 (2015). <https://doi.org/10.1093/jat/bku130>
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1. *Drug-Facilitated Sexual Assault: A Forensic Handbook*. Marc A. LeBeau and Ashraf Mozayani, Eds. (2001), Academic Press: London.
2. LeBeau, Marc "Gamma-Hydroxybutyric Acid (GHB)" in *Principles of Forensic Toxicology*. Barry Levine, Ed., 2nd edition, (2006), AACC Press, Washington, DC.
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6. LeBeau, Marc. A. "A Simplified Approach to Measurement Uncertainty" in *Clarke's Analysis of Drugs and Poisons*, 4th edition, Anthony C. Moffat, M. David Osselton, and Brian Widdop, Eds., Pharmaceutical Press, 2011.
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9. Levine, Barry and LeBeau, Marc "Miscellaneous Central Nervous System Depressants" in *Principles of Forensic Toxicology*. Barry Levine and Sarah Kerrigan, Eds., 5th edition, (2020), Springer, Cham, Switzerland.

Significant Contributions Towards Forensic Science Standards of Practice:

1. *SWGDRUG Recommendations for Education and Training, Quality Assurance, and Methods of Analysis*, U.S. Department of Justice, Drug Enforcement Administration, 2001.
2. *Guidelines for the Forensic Analysis of Drugs Facilitating Sexual Assault and Other Criminal Acts*. United Nations Office on Crimes and Drugs. 2011.
3. *SWGTOX Standard Practices for Method Validation in Forensic Toxicology*. Journal of Analytical Toxicology, Vol 37, Issue 7, Sep 2013, <https://doi.org/10.1093/jat/bkt054>
4. *ANSI/ASB Standard 017, Standard Practices for Measurement Traceability in Forensic Toxicology*, First Edition, 2018.
5. *ANSI/ASB Standard 036, Standard Practices for Method Validation in Forensic Toxicology*, First Edition, 2019.
6. *ANSI/ASB Best Practice Recommendation 037, Guidelines for Opinions and Testimony in Forensic Toxicology*, First Edition, 2019.
7. *ANSI/ASB Standard 053, Standard for Report Content in Forensic Toxicology*, First Edition, 2020.
8. *ANSI/ASB Standard 054, Standard for a Quality Control Program in Forensic Toxicology Laboratories*, First Edition, 2021.
9. *ANSI/ASB Standard 055, Standard for Breath Alcohol Measuring Instrument Calibration*, First Edition, 2024.
10. *ANSI/ASB Standard 098, Standard for Mass Spectral Analysis in Forensic Toxicology*, First Edition, 2023.
11. *ANSI/ASB Standard 113, Standard for Identification Criteria in Forensic Toxicology*, First Edition, 2023.
12. *ANSI/ASB Standard 119, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Medicolegal Death Investigations*, First Edition, 2021.
13. *ANSI/ASB Standard 120, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Impaired Driving Investigations*, First Edition, 2021.
14. *ANSI/ASB Standard 121, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Urine in Drug-Facilitated Crime Investigations*, First Edition, 2021.
15. *ANSI/ASB Best Practice Recommendation 122, Best Practice Recommendation for Performing Alcohol Calculations in Forensic Toxicology*, First Edition, 2024
16. *ANSI/ASB Standard 152, Standard for Minimum Content Requirements of Forensic Toxicology Procedures*, First Edition, 2021.
17. *ANSI/ASB Standard 153, Standard Practices for Proficiency Testing for Forensic Toxicology Laboratories and Breath Alcohol Programs*, First Edition, 2023.
18. *ANSI/ASB Standard 156, Best Practice Recommendations for Specimen Collection and Preservation for Forensic Toxicology*, First Edition, 2023.

RECENT TESTIMONIES (Since 2018)

- 2024 *MO State Board of Nursing vs Jessica Roberts* (Jefferson City, MO) – Forensic Toxicology
- 2024 *United States v. Michael J. Miske, Jr. et al.* (Honolulu, HI) – Forensic Toxicology
- 2024 *Justin Lanterman vs Carolina Motor Club* (Virtual Deposition) – Forensic Toxicology
- 2023 *Spence vs Dexcom* (Virtual Deposition) – Forensic Toxicology
- 2023 *United States vs SFC Joseph Santiago* (Fort Campbell, KY) – Forensic Toxicology
- 2023 *Commonwealth of Virginia vs Christopher White* (Lynchburg, VA) – Forensic Toxicology
- 2021 *Jeffrey Marsalis vs State of Idaho* (Hailey, ID) – Forensic Toxicology
- 2021 *Jeffrey Marsalis vs State of Idaho* (Virtual Deposition) – Forensic Toxicology
- 2021 *Robert Gandy vs Harris County, Texas, et al.* (Virtual Deposition) – Compositional Bullet Lead Analysis
- 2018 *The People of the State of California vs Damou Evans* (San Jose, CA) – Forensic Toxicology

Not Yet Retained