

Sarah Kerrigan, Ph.D.
Associate Professor, Forensic Science Program Coordinator
College of Criminal Justice

Degrees Earned

Ph.D., Chemistry, University of British Columbia, Canada, 1997.
B.S., Chemistry with Analytical Chemistry And Toxicology, University of Hull, England, 1992.

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

Laurel Farrell, Sarah Kerrigan and Barry Logan. Recommendations for Toxicological Investigation of Drug Impaired Driving, *Journal of Forensic Sciences* 52(5), 1-5 (2007).

Cameron Crandall, Sarah Kerrigan, Roberto L. Agüero Blau, Jonathan LaValley, Ross Zumwalt and Pat McKinney. The Influence of Site of Collection on Postmortem Morphine Concentrations in Heroin Overdose Victims, *Journal of Forensic Sciences* 51(2), 413-420 (2006).

Cameron Crandall, Sarah Kerrigan, Roberto L. Agüero Blau, Jonathan LaValley and Pat McKinney. The Influence of Site of Collection and Collection Methods on Postmortem Morphine Concentrations in a Porcine Model, *Journal of Analytical Toxicology*, 30(9), 651-658 (2006).

Sarah Kerrigan and Tania Lindsey. Fatal Caffeine Overdose: Two Case Reports, *Forensic Science International*: 153(1), 67-69 (2005).

Gerasimos Razatos, Ruth Luthi and Sarah Kerrigan. Evaluation of a Portable Evidential Breath Alcohol Analyzer, *Forensic Science International*: 153(1), 17-21 (2005).

Susan Mazarr-Proo and Sarah Kerrigan. Distribution of GHB in Tissues and Fluids Following a Fatal Overdose, *Journal of Analytical Toxicology*: 29(5), 985-400 (2005).

Donna Honey, Curtis Caylor, Ruth Luthi and Sarah Kerrigan. Comparative Alcohol Concentrations in Blood and Vitreous Fluid With Illustrative Case Studies, *Journal of Analytical Toxicology*: 29(5), 365-369 (2005).

Sarah Kerrigan. Drugged Driving Update: New Publications Provide Updates on Drugged Driving, *Clinical and Forensic Toxicology News*, American Academy for Clinical Chemistry, Washington DC, December (2004).

Sarah Kerrigan, Donna Honey and Ginger Baker. Postmortem Morphine Concentrations Following Use of a Continuous Infusion Pump, *Journal of Analytical Toxicology*: 28(6), 529-532 (2004).

Tania Lindsey, Joseph O'Hara, Rebecca Irvine and Sarah Kerrigan. Strychnine Overdose Following Ingestion of Gopher Bait, *Journal of Analytical Toxicology*: 28(2), 135-137 (2004).

J Yazzie, SC Kelly, RE Zumwalt and S Kerrigan. Fatal Bupivacaine Intoxication Following Unusual Erotic Practices, *Journal of Forensic Sciences*: 49(2), 1-3 (2004).

Sarah Kerrigan. In Vitro Production of Gamma-Hydroxybutyrate in Antemortem Urine Samples, *Journal of Analytical Toxicology*: 26 (8), 571-574 (2002).

Sarah Kerrigan. Detection of Drug-Impaired Driving Can be Difficult, *Clinical and Forensic Toxicology News*, American Academy for Clinical Chemistry, Washington DC (2002).

Sarah Kerrigan and J. Valentine. Club Drugs or Rave Drugs Offer Challenges to Laboratories, *Clinical and Forensic Toxicology News*, American Academy for Clinical Chemistry, Washington DC (2001).

Sarah Kerrigan. GHB & Precursors: Use, Effects & Pharmacology, *Clinical and Forensic Toxicology News*, American Academy for Clinical Chemistry, Washington DC, (2001).

Sarah Kerrigan. GHB and Precursors: Management and Analysis, *Clinical and Forensic Toxicology News*, American Academy for Clinical Chemistry, Washington DC, (2001).

Sarah Kerrigan and William H. Phillips, Jr. Comparison of ELISAs for Opiates, Methamphetamine, Cocaine Metabolite, Benzodiazepines, Phencyclidine and Cannabinoids in Whole Blood and Urine, *Clin Chem*: 47, 540-547 (2001).

Sarah Kerrigan. Drug-Facilitated Sexual Assault: Fact or Fiction, *Clinical and Forensic Toxicology News*, American Association for Clinical Chemistry, Washington DC, September 2000.

Sarah Kerrigan. LSD: A Mysterious and Challenging Drug, *Clinical and Forensic Toxicology News*, American Association for Clinical Chemistry, Washington DC (2000).

Sarah Kerrigan and Donald E. Brooks. Immunochemical Extraction and Detection of LSD in Whole Blood, *Journal of Immunological Methods*: 224, 11-18 (1999).

Sarah Kerrigan and Donald E. Brooks. Optimization and Immunological Characterization of a Photochemically Coupled Lysergic Acid Diethylamide (LSD) Immunogen, *Bioconjugate Chemistry*: 9, 596-603 (1998).

Sarah Kerrigan and Donald. E. Brooks. Indirect Enzyme-Linked Immunosorbent Assay for the Quantitative Estimation of Lysergic Acid Diethylamide in Urine. *Clinical Chemistry*: 44, (5) 985-990 (1998).

Books

Sarah Kerrigan, Ph.D. and Michelle Spirk, M.S., Eds., *Interpretive Toxicology & Drug Impaired Driving: A case oriented approach*. [Humana Press, anticipated 2009].

Chapters

Sarah Kerrigan. Sampling, Storage and Stability in Clarke's *Analysis of Drugs and Poisons*, 4th Ed. Pharmaceutical Press, London, UK. Eds. A.C. Moffat, M.D. Osselton and B. Widdop (in progress).

Sarah Kerrigan and Bruce A. Goldberger. Specimens of Maternal Origin in Drug Testing in Alternate Biological Specimens, Humana Press. Ed. A.J. Jenkins (in press).

Sarah Kerrigan. Drug Impaired Driving Fundamentals in Medical-Legal Aspects of Abused Substances: Old and New – Licit and Illicit. Lawyers and Judges Publishing Company Inc. Tucson, AZ. Eds. M. Burns and T.E. Page (2005).

Sarah Kerrigan and Bruce A. Goldberger. Substance Misuse – Body Fluid Analysis in Encyclopedia of Forensic and Legal Medicine. Elsevier and Academic Press, Burlington, MA. Eds. J Payne-James, R. Byard, T. Corey and C. Henderson. Elsevier Science (2005).

Sarah Kerrigan and Bruce A. Goldberger. Forensic Toxicology in Forensic Nursing. Elsevier Mosby, St. Louis, MO. Ed. V. Lynch, (2005).

Sarah Kerrigan and Bruce A. Goldberger. Opioids in Principles of Forensic Toxicology, 2nd Ed., AACC Press, Washington, D.C., Ed. B. Levine (2003).

Daniel J. Cobaugh and Sarah Kerrigan. Gamma-Hydroxybutyrate in Contemporary Practice in Clinical Toxicology, AACC Press, Washington DC, Ed. L. Shaw (2001).

Sarah Kerrigan and Bruce A. Goldberger. Drugs of Abuse: Body Fluids in Encyclopedia of Forensic Science, Academic Press, London, UK, Ed. J. Siegel (2000).

Sarah Kerrigan and Bruce A. Goldberger. Opioids in Principles of Forensic Toxicology, AACC Press, Washington, D.C., Ed. B. Levine (2000).

Proceedings

Sarah Kerrigan. Overview of Drug-Facilitated Sexual Assault, Society of Forensic Toxicologists Annual Meeting, Raleigh/Durham, NC, October 2007.

Sarah Kerrigan. Immunoassay Validation – A Practical Approach to DUID Testing, Society of Forensic Toxicologists Annual Meeting, Raleigh/Durham, NC, October 2007.

Laurel Farrell, Sarah Kerrigan and Barry Logan. Recommendations for Toxicological Investigation of Drug Impaired Driving. T2007: International Council on Alcohol, Drugs, and Traffic Safety, The International Association of Forensic Toxicologists, and the 8th Ignition Interlock Symposium (IIS), Seattle, WA, August 2007.

Rachael Malfer, Anna Leggett, Sharla McCloskey and Sarah Kerrigan. Cocaine Impaired Driving: Evaluation of Toxicology, Driving Behavior and Impairment Symptoms in Arrested Drivers. American Academy of Forensic Sciences Annual Meeting, San Antonio, TX, February 2007. Anna Leggett, Sharla McCloskey, Rachael Malfer and Sarah Kerrigan. Driving Behavior and Impairment Symptoms in Cannabinoid Positive Subjects Arrested for Driving Under the Influence of Drugs (DUID). American Academy of Forensic Sciences Annual Meeting, San Antonio, TX, February 2007.

Sharla McCloskey, Anna Leggett, Rachael Malfer, and Sarah Kerrigan. Driving Under the Influence of Methamphetamine: Comparison of Driving Behavior and Impairment Symptoms in Subjects Arrested for Driving While Intoxicated (DWI). American Academy of Forensic Sciences Annual Meeting, San Antonio, TX, February 2007.

Sarah Kerrigan. Standardized Field Sobriety Tests and Drug Impaired Driving, Society of Forensic Toxicologists Annual Meeting, Austin, TX, October 2006.

Sarah Kerrigan. Challenges in Drug-Facilitated Sexual Assault: The Toxicologists's Perspective, Society of Forensic Toxicologists Annual Meeting, Austin, TX, October 2006.

Sarah Kerrigan. The Role of The Toxicologist in Drug Impaired Driving, Lifesavers Conference, National Conference on Highway Safety Priorities, Austin, TX, April 2006.

Sarah Kerrigan. Driving Under the Influence of Drugs – Interpretive Strategies: Case Study Illustrations, Southwestern Association of Toxicologists, Houston, TX, March 2006.

Sarah Kerrigan.

Multiple Drug Intoxication in Impaired Drivers: Polypharmacy Challenges. American Academy of Forensic Sciences Annual Meeting, Seattle, WA, February 2006.

Susan Mazarr-Proo and Sarah Kerrigan. Fatal GHB Intoxication following Recreational Use, FBI Symposium/Society of Forensic Toxicologists/International Association of Forensic Toxicologists Annual Meeting, Washington DC, September 2004.

Ginger Baker, Janice Yazzie and Sarah Kerrigan. Unusual Tramadol Concentrations in an Accidental Death Involving Poly Drug Use, FBI Symposium/Society of Forensic Toxicologists/International Association of Forensic Toxicologists Annual Meeting, Washington DC, September 2004.

Sarah Kerrigan and Tania Lindsey. Caffeine Intoxication: More Than Just Cream and Sugar, FBI Symposium/Society of Forensic Toxicologists/International Association of Forensic Toxicologists Annual Meeting, Washington DC, September 2004.

Janice Yazzie, Ruth Luthi and Sarah Kerrigan. Effect of Sodium Chloride on Headspace Blood Alcohol Analysis by GC-FID, FBI Symposium/Society of Forensic Toxicologists/International Association of Forensic Toxicologists Annual Meeting, Washington DC, September 2004.

Gerasimos Razatos, Ruth Luthi and Sarah Kerrigan. Evaluation of a Portable Evidential Breath Alcohol Analyzer, FBI Symposium/Society of Forensic Toxicologists/International Association of Forensic Toxicologists Annual Meeting, Washington DC, September 2004.

Sarah Kerrigan. Strychnine Overdose: A Case Report, California Association of Toxicologists Meeting, Oakland, CA, March 2004.

Gerasimos Razatos, Curtis Caylor, Ruth Luthi and Sarah Kerrigan. Validation of Volatile Analysis Using Dual Column GC, American Academy of Forensic Sciences Annual Meeting, Dallas, TX, February 2004.

Sarah Kerrigan. Bupivacaine Overdose Following Genital Injection. California Association of Toxicologists Meeting, Culver City, CA, November 2003.

Janice Yazzie, Susan Mazarr-Proo and Sarah Kerrigan. Analysis of Keto Opiates Using Solid Phase Extraction and Gas Chromatography Mass Spectrometry, Society of Forensic Toxicologists Annual Meeting, Portland, OR, October 2003.

Donna Honey, Susan Mazarr-Proo and Sarah Kerrigan. Distribution of Cocaine and Benzoylcegonine in Postmortem Casework, Society of Forensic Toxicologists Annual Meeting, Portland, OR, October 2003.

Ginger Baker, Nancy Drez, Patricia McFeeley, Sean Kelly and Sarah Kerrigan. Unusual Distribution of Methamphetamine in a Fatality, Society of Forensic Toxicologists Annual Meeting, Portland, OR, October 2003.

Sarah Kerrigan and Ginger Baker. Gabapentin, A Novel Adjunctive Agent: Case Review of Twenty Postmortem Toxicology Investigations Involving Gabapentin. American Academy of Forensic Sciences Annual Meeting, Chicago, IL, February 2003.

Steven Martinez, Philip Enriquez and Sarah Kerrigan. Drug-Impaired Driving in New Mexico: A Six-Year Retrospective Study, Society of Forensic Toxicologists Annual Meeting, Dearborn, MI, October 2002.

Donna Honey, Ginger Salazar, Susan Mazarr-Proo and Sarah Kerrigan. Validation of Automated Microplate Immunoassays for Eight Drugs-of-Abuse using Postmortem and Antemortem Fluids and Tissues, Society of Forensic Toxicologists Annual Meeting, Dearborn, MI, October 2002.

Sarah Kerrigan. Understanding Drug-facilitated Rape, Preventing Sexual Violence: A Cross-Sectional View of Prevention, August 2002, Albuquerque, NM.

Sarah Kerrigan. Drug-Impaired Driving, Law Enforcement Collaborative Symposium, Angel Fire, NM, July 29-30.

Sarah Kerrigan. Drug-Facilitated Rape, Prosecuting Sexual Crimes II, State Bar of New Mexico, Albuquerque, June 27-28, 2002.

Sarah Kerrigan. Effects of Alcohol and Drugs on Driving: Recognition of the Drug-Impaired Driver, Municipal Judges' Conference, Ruidoso, NM, June 12, 2002.

K. Gomez, D. Lovato, J. Robb and S. Kerrigan. Evaluation of Four Breath Alcohol Analyzers. International Association of Chemical Testing Annual Meeting, TX (2002).

Sarah Kerrigan, Gary W. Davis, and Kenji Ota. Simultaneous Determination of Opiates, Cocaine and Benzoylcegonine in Whole Blood and Urine Samples Using Polymeric Solid Phase Extraction and Gas Chromatography/Mass Spectrometry. Society of Forensic Toxicologists, Annual Meeting, New Orleans, (2001).

Sarah Kerrigan. Drug-Facilitated Sexual Assault, Law Enforcement Response to Sexual and Domestic Violence, Albuquerque, September 20-21 (2001).

Sarah Kerrigan. Gamma-hydroxybutyrate: Toxicology, Interpretation and Postmortem Challenges, 28th Medicolegal Investigation of Death Forensic Science Seminar, Albuquerque, September 4-7 (2001).

Sarah Kerrigan and W. H. Phillips, Jr. Determination of Gamma-Hydroxybutyrate in Blood and Urine Using Chemical Ionization Gas Chromatography/Mass Spectrometry, American Academy of Forensic Sciences, Annual Meeting (2001), Seattle, WA.

Sarah Kerrigan. Immunoassay Cutoffs: Consensus or Variable, California Association of Toxicologists Quarterly Meeting, South San Francisco, February (2001).

Sarah Kerrigan. Overview of GHB, Congress of Criminalists on GHB, California Criminalistics Institute, California Department of Justice, Division of Law Enforcement HQ, Sacramento, CA (2000).

Sarah Kerrigan. Analysis of GHB, Related Analogs and Precursors, Congress of Criminalists on GHB, California Criminalistics Institute, California Department of Justice, Division of Law Enforcement HQ, Sacramento, CA (2000).

Sarah Kerrigan and William H. Phillips, Jr. Side by Side Comparison of Microplate Enzyme Immunoassays for Opiates, Methamphetamine, Benzodiazepines, Benzoyllecgonine (BE), Phencyclidine (PCP) and Marijuana in Blood and Urine, Society of Forensic Toxicologists, Annual Meeting, Milwaukee, WI (2000).

Sarah Kerrigan, Joshua S. Spatola, Timothy A. Appel and William H. Phillips, Jr. Validation of Fully Automated Microplate Enzyme Immunoassays for Opiates, Methamphetamine, Benzodiazepines, Benzoyllecgonine (BE), Phencyclidine (PCP) and Marijuana in Blood and Urine, Society of Forensic Toxicologists, Annual Meeting, Milwaukee, WI (2000).

Sarah Kerrigan and D. E. Brooks.
Rapid Immunoaffinity Extraction of Lysergic Acid Diethylamide (LSD) from Blood and Urine, Society of Forensic Toxicologists, Annual Meeting, Puerto Rico, USA (1999).

Research Monographs and Technical Reports

Sarah Kerrigan. Drug Toxicology for Prosecutors, American Prosecutors Research Institute, Alexandria, National Traffic Law Center, VA, October (2004).

Work or Professional Experiences - Boards and Committees

Texas Forensic Science Commission
Appointed to the Commission by the Texas Attorney General, 2007.

Society of Forensic Toxicologists
Executive Board, Secretary, 2008.

Society of Forensic Toxicologists
Board of Directors, 2006-2007.

Houston Police Department, Crime Laboratory
Stakeholder Committee, 2007-present.

California Association of Toxicologists
Past President, 2005-2006.

California Association of Toxicologists
Chair, Bylaws, Records Review and Revision, 2005-present.

American Academy of Forensic Sciences
Steering Committee (Toxicology Section), 2005-present.

Society of Forensic Toxicologists/American Academy of Forensic Sciences
Chair, Drugs and Driving Committee, 2005-present.

National Safety Council
Highway Traffic Safety Division, Committee on Alcohol and other Drugs (COAD), 2005-present.

American Academy of Forensic Sciences
Chair, Awards and Scholarship Committee (Toxicology Section), 2005-2006.

California Association of Toxicologists
President, 2004-2005.

Society of Forensic Toxicologists
Membership Committee, 2004-2005.

Society of Forensic Toxicologists/American Academy of Forensic Sciences
Drugs and Driving Committee, 2004-present.

California Association of Toxicologists
Vice President, 2003-2004.

American Academy of Forensic Sciences
Awards and Scholarship Committee (Toxicology Section), 2003-2004.

Journal of Analytical Toxicology
Editorial Advisory Board, 2003-present.

Society of Forensic Toxicologists
Chair, Education and Outreach Subcommittee, Drug-Facilitated Sexual Assault Committee, 2003-2005.

American Association for Clinical Chemistry

Chair, Clinical and Forensic Toxicology News, Editorial Advisory Board, American Academy for Clinical Chemistry, Washington, DC, 2001-2005.

American Association for Clinical Chemistry
Editorial Advisory Board, Clinical and Forensic Toxicology News, American Academy for Clinical Chemistry, Washington, DC, 1999-2000.

Society of Forensic Toxicologists
Continuing Education Committee, 1999-2002.

Society of Forensic Toxicologists
Drug-Facilitated Sexual Assault Committee, 2000-present.

California Association of Toxicologists
Member at Large – North, 2000-2001.

California Association of Toxicologists
Board of Directors, 2000-2001; 2003-2006

Other Professional Activities

Workshop Co-Chair, A Practical Approach to DUID Testing, Society of Forensic Toxicologists Annual Meeting, Raleigh/Durham, NC, October 2007.

Journal of Analytical Toxicology, Special Editor, Society of Forensic Toxicologists Special Issue, October 2007.

Workshop Co-Chair, Standardized Field Sobriety Tests: Principles and Practice, Society of Forensic Toxicologists Annual Meeting, Austin, TX October 2006.

Workshop Co-Chair, Case Studies in DUID: Numbers, Signs, Symptoms and Beyond, Society of Forensic Toxicologists Annual Meeting, Nashville, TN October 2005.

Adjunct Professor, University of New Mexico, Department of Pathology, Faculty of Medicine, 2002-2004.

Meeting Host, Interpretive Toxicology Workshop, Albuquerque, NM (May 2003) at the joint Quarterly meeting of the California Association of Toxicologists and Southwestern Association of Toxicologists.

Workshop Chair, Club Drugs and Drug-Facilitated Sexual Assault, Society of Forensic Toxicologists Annual Meeting, Dearborn, MI October 2002.

Standards, Practice, and Training for Sexual Assault Forensic Examinations Focus Group, United States Department of Justice, Violence Against Women Office, Washington DC, August 2002.

Meeting Host, The Chemistry of Derivatization, San Diego, CA (Nov 2000), co-sponsored by the Society of Forensic Toxicologists and The California Association of Toxicologists.

Honors and Awards

OUTSTANDING DRE PROGRAM INNOVATION

Awarded by The International Association of Chiefs of Police (IACP)/CANDID, Baltimore, MD (2003).

IRVING SUNSHINE TOXICOLOGY AWARD

Awarded by the American Academy for Forensic Sciences in recognition of achievements (2002).

NEW MEXICO HIGHWAY AND TRANSPORTATION DEPARTMENT, TRAFFIC SAFETY BUREAU AWARD, Awarded by the Traffic Safety Bureau for Dedication, Commitment and Perseverance, Annual Traffic Safety Summit (2002).

Invited Lectures

INVITED SPEAKER, AMERICAN BAR ASSOCIATION NATIONAL CONFERENCE OF SPECIALIZED

COURT JUDGES. Toxicology: Alcohol Impaired Driving & Toxicology: Drug Impaired Driving, Indiana Traffic Court Technology Conference, Indianapolis, IN, October 2006.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Alcohol Impaired Driving, Traffic Adjudication - Administrative Law Judges, Distance Learning Project, Reno, NV, September 2006.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Alcohol and Drug Impaired Driving, DUI Primer for Judges: Impaired Driving Fundamentals, Oklahoma City, OK, July 2006.

INVITED SPEAKER, INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE, The Role of the Toxicologist: Challenges and Solutions. The 12th Annual IACP Training Conference on Drugs, Alcohol and Impaired Driving, Kansas City, MO June 2006.

INVITED SPEAKER, TEXAS DISTRICT & COUNTY ATTORNEYS ASSOCIATION. Alcohol-Impaired Driving, Intoxication Manslaughter Course, Austin, TX, April 2006.

INVITED SPEAKER, TEXAS DISTRICT & COUNTY ATTORNEYS ASSOCIATION. Driving Under the Influence of Drugs, Intoxication Manslaughter Course, Austin, TX, April 2006.

INSTRUCTOR, STATE OF TEXAS DRE RECERTIFICATION CLASS. Toxicology Support and the DRE Program, Law Enforcement Management Institute of Texas, Huntsville, TX, February 2006.

INSTRUCTOR, AMERICAN BAR ASSOCIATION JUDICIAL DIVISION. Alcohol Pharmacology and DUI, Traffic Court Technology Program, American Bar Association Judicial Division, National Conference of Special Court Judges, Dallas, TX, November 2005.

INSTRUCTOR, AMERICAN BAR ASSOCIATION JUDICIAL DIVISION. Drug Impaired Driving: How Other Drugs Impair Drivers, Traffic Court Technology Program, American Bar Association Judicial Division, National Conference of Special Court Judges, Dallas, TX, November 2005.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Alcohol and Drug Impaired Driving, Traffic Issues in the 21st Century, Reno, NV, June 2005.

INVITED SPEAKER, MISSOURI MUNICIPAL & ASSOCIATE CIRCUIT JUDGES ASSOCIATION ANNUAL MEETING. Drug Impaired Driving, Lake of the Ozarks, Missouri, May 2005.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Alcohol Impaired Driving, Traffic Adjudication - Administrative Law Judges, Distance Learning Project, Reno, NV, May 2005.

INSTRUCTOR, STATE OF TEXAS DRE RECERTIFICATION CLASS. Toxicology Support and the DRE Program, Texas DPS Training Academy, Houston, TX, April 2005.

INSTRUCTOR, INTERNATIONAL CONGRESS OF THERAPEUTIC DRUG MONITORING AND CLINICAL TOXICOLOGY. Recent Trends in Evidence for Driving Under the Influence, Louisville, KY, April 2005.

INSTRUCTOR, TEXAS DISTRICT & COUNTY ATTORNEYS ASSOCIATION. Intoxication Manslaughter School: Forensic Toxicology and Drug-Impaired Drivers, Kerrville, TX, April 2005.

INSTRUCTOR, UTAH ADMINISTRATIVE OFFICE OF THE COURTS/AMERICAN BAR ASSOCIATION JUDICIAL DIVISION. Traffic Court Technology in the 21st Century: Toxicology and Pharmacology of Alcohol/Toxicology and Pharmacology of Drugs, Salt Lake City, UT, February, 2005.

INSTRUCTOR, ARIZONA DEPARTMENT OF PUBLIC SAFETY, CRIME LABORATORY. Interpretive Toxicology and Drug Impaired Driving Workshop, Tempe AZ, November/December, 2004.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Alcohol and Drug Impaired Driving, DUI Primer for New Judges: Impaired Driving Case Fundamentals, Reno, NV, October 2004.

WORKSHOP INSTRUCTOR, DRUG FACILITATED SEXUAL ASSAULT. Overview of DFSA, FBI Laboratory Symposium, Washington DC, August 2004.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Alcohol and Drug Impaired Driving, Sentencing Motor Vehicle Law Offenders, Reno, NV, August 2004.

INVITED SPEAKER, NHTSA/NSC. DUID Outreach Activities: Tools and Resources for Long Term Interagency Cooperation. National Highway and Traffic Safety Administration/National Safety Council Meeting on Improving Integration of DRE, Investigative and Toxicological Evidence in DUID Prosecutions, Seattle, May 2004.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Toxicology of Alcohol and Drugs, DUI Primer for Judges, Albuquerque, NM, May 2004.

INVITED SPEAKER, ALBUQUERQUE PUBLIC SCHOOLS. Overview of Drug-Related Activities, Perspectives on Reducing and Preventing Substance Abuse in Our School Communities: Uniting Local Initiatives with Effective Curricula, University of New Mexico, April 2004.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Toxicology of Alcohol and Drugs, Traffic Issues in the 21st Century, Reno, NV, April 2004.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Toxicology of Alcohol and Drugs, Traffic Adjudication for Administrative Law Judges, Reno, NV, February 2004.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Toxicology of Alcohol and Drugs, DUI Primer for New Judges, Reno, NV, November 2003.

WORKSHOP INSTRUCTOR, PREPARATION AND PLANNING FOR LABORATORY ACCREDITATION BY THE AMERICAN BOARD OF FORENSIC TOXICOLOGY. So Just How Difficult Is It? Laboratory Director's Experience of ABFT Accreditation, Society of Forensic Toxicologists Annual Meeting, Portland, OR October 2003.

INVITED SPEAKER, NEW MEXICO JUDICIAL EDUCATION CENTER. Drug and Alcohol-Impaired Driving. Judicial Responses to Addictive Behaviors, A Satellite Broadcast by the New Mexico Judicial Education Center, University of New Mexico, Albuquerque, September 2003.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Sobriety Testing, Sentencing Motor Vehicle Law Offenders, Reno, NV, August 2003.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Sobriety Testing, Traffic Issues in the 21st Century, Reno, NV, May 2003.

INVITED SPEAKER, PATHOLOGY GRAND ROUNDS. Human Performance Toxicology: Is This Driver Impaired by Drugs? University of New Mexico, Department of Pathology, Faculty of Medicine, May 2003.

INVITED SPEAKER, AMERICAN PROSECUTORS RESEARCH INSTITUTE, UNDERSTANDING SEXUAL VIOLENCE. Drug-Facilitated Rape: Challenges and Solutions, Raleigh, NC, March 2003.

INVITED SPEAKER, UNIVERSITY OF FLORIDA, WILLIAM R. MAPLES CENTER FOR FORENSIC MEDICINE. Overview of Drug Impaired Driving, Gainesville, FL, February 2003.

INVITED SPEAKER, UNIVERSITY OF FLORIDA, WILLIAM R. MAPLES CENTER FOR FORENSIC MEDICINE. Alcohol Effects and Impairment, Gainesville, FL, February 2003.

INVITED SPEAKER, WASHINGTON STATE PATROL, DRE IN-SERVICE TRAINING. Driving Under the Influence of Drugs, Seattle, WA, December 2002.

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Pharmacology and Sobriety Testing, DUI Primer for New Judges, Reno, NV, November 2002.

INSTRUCTOR, CALIFORNIA CRIMINALISTICS INSTITUTE
Forensic Toxicology – Basic Concepts, Sacramento, CA, August 2002.

INSTRUCTOR, CALIFORNIA CRIMINALISTICS INSTITUTE. The Effects of Drugs on Driving, Sacramento, CA, August 2002.

INSTRUCTOR, CALIFORNIA CRIMINALISTICS INSTITUTE. Drug-Facilitated Rape, Sacramento, CA, August 2002.

INSTRUCTOR, NEW MEXICO LAW ENFORCEMENT ACADEMY. Drug-Impaired Driving, Santa Fe, NM (2001-2004).

INSTRUCTOR (FACULTY), NATIONAL JUDICIAL COLLEGE. Drug and Alcohol Driving Impairment: Pharmacology and Sobriety Testing. Traffic Issues in the 21st Century, Reno, NV, May 2001.

INSTRUCTOR, CALIFORNIA DEPARTMENT OF JUSTICE CONGRESS OF CRIMINALISTS ON GHB. California Criminalistics Institute, California Department of Justice, Division of Law Enforcement HQ, Sacramento, CA, Sept 2001.

INSTRUCTOR, Drug-Facilitated Sexual Assault and New Trends in Drug Use. J.F.K. Memorial Hospital, Indio, CA. Accredited by C.A.M.L.T., July 2000.

INSTRUCTOR, CALIFORNIA CRIMINALISTICS INSTITUTE. Forensic Toxicology, Sacramento, CA (1999-2000).