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LEONARD A. SPECKIN

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LATENT PRINT SPECIALIST
CRIME SCENE RECONSTRUCTION
FORENSIC DOCUMENT ANALYST

ROBERT D. KULLMAN FORENSIC DOCUMENT ANALYST

LARRY A. DALMAN COMPUTER RECOVERY SPECIALIST

DR. GEORGE F. JACKSON Ph.D.

ERICH J. SPECKIN FORENSIC DOCUMENT ANALYST INK DATING SPECIALIST

ROGER J. BOLHOUSE MBA
LABORATORY DIRECTOR
CRIME SCENE RECONSTRUCTION
FORENSIC ANALYST & CONSULTANT

THOMAS K. HUARD Ph.D.

ROBERT B. CILWA

RICHARD L. BRUNELLE

DR. LAURENCE R. SIMSON M.D.

DR. JAY A. SIEGEL Ph.D.

COLIN V. SHELLHORN COMPUTER & GRAPHICS SPECIALIST

DR. JULIE HOWENSTINE
SEROLOGIST
DNA ANALYST & CONSULTANT
CRIME SCENE RECONSTRUCTION

Dr. GEORGE F. JACKSON, Ph. D.

Toxicologist

PROFESSIONAL EXPERIENCE:

2011 - Speckin Forensic Laboratories LLC

8/11 – Present Atlantic Diagnostic Laboratory

Bensalem, PA,

Director of Forensic Toxicology

Plan, organize, direct all aspects of Forensic Toxicology Testing. Using pharmacological and biochemical principles to interpret analytical findings, generate written and oral reports for clinical and forensic purposes. Using pharmacological and biochemical principles to interpret analytical findings, generate written and oral reports for clinical and forensic purposes. Coordinate medico-legal issues with attorneys, courts of law and other professionals.

11/10 - 7/11 DrugScan, Inc.

Warminister, PA.

Forensic Toxicologist

Assign, perform and certify testing of specimens for compounds of toxicological interest, especially in relation to matters of law. Data analysis and certification of GC/MS and LC/MS data.

10/10 – Present Union County Medical Examiner's Office

Union County, NJ

Forensic Toxicology Consultant

Using pharmacological and biochemical principles to interpret analytical findings, generate oral reports, provide toxicology consulting to the medical examiner's office.

10/10 – Present Forensic Toxicology Consultants, LLC

Mount Laurel, NJ

Using pharmacological and biochemical principles to interpret analytical findings, generate written and oral reports for clinical and forensic purposes. Coordinate

medico-legal issues with attorneys, courts of law and other professionals. Provide courtroom testimony upon request.

E.H. ALBANO INSTITUTE OF FORENSIC SCIENCE – Newark, New Jersey

11/03 -9/10 Laboratory Director

Plan, organize, direct all aspects of the State Toxicology Laboratory to include the Forensic Pathology Testing and Law Enforcement Drug Testing sections. Established, maintain quality assurance and quality control programs(CAP, CLIA, ABFT), implement policies and procedures for laboratory, coordinate Continue Education and Certification programs, Coordinate medico-legal issues as it relates to the State Toxicology, Laboratory, Perform postive & negative certification of analytical results, Use pharmacological and biochemical principles to interpret analytical findings, generate written and oral reports for clinical and forensic purposes. Testimony on matters of toxicology in Local, State, Federal and Military jurisdictions.

03/03 - 11/03 Deputy Director

Plan, organize, direct all aspects of the Law Enforcement Drug Testing section, Quality Control, Quality Assurance, Training and Reviews. Provide assistance to Director of Laboratory in the administration of the Forensic Pathology Testing Laboratory. Use pharmacological and biochemical principles to interpret analytical findings, generate written and oral reports for clinical and forensic purposes. Perform postive & negative certification of analytical results, Coordinate medico-legal issues as it relates to the State Toxicology Laboratory. Testimony on matters of toxicology in Local, State, Federal and Military jurisdictions.

NATIONAL MEDICAL SERVICES - Willow Grove, PA

07/95 B 2/03 Forensic Toxicologist

Assign, perform and certify testing of specimens for compounds of toxicological interest, especially in relation to matters of law. Testimony on matters of toxicology in Local, State, Federal and Military jurisdictions.

05/01 B 2/03 Director of Expert Services

Oversee the administrative functions of the Expert Services Group at NMS. Coordinate medico-legal issues with attorneys, courts of law and others as they relate to NMS.

07/98 B 8/02 Strategic Business Unit Technical Director for Product Integrity

08/00 B 08/01 Corporate Security Auditor

03/96 B 08/01 Acting Division Head of Criminalistics

03/96 B 08/00 Director, Corporate Security

Direct and oversee all administrative aspects of the Security Department

03/96 B 07/99 Director of Forensic Operations

Direct and oversee all aspects of Controlled Substances procurement and Storage

07/95 B 03/96 Director of Environmental/Occupational Testing

Responsible for that portion of the laboratory involved in the testing of biological and some non-biological samples for environmental toxicants.

07/94 B 07/95 Postdoctoral Fellow Forensic Toxicology

Assign, perform and certify testing of specimens for analytes of toxicological interest, especially in relation to matters of law. Methods used include HPLC with various modes of detection; gas chromatography; gas chromatography/mass spectrometry; wet chemical, colorimetric, spectrophotometric and other chromatographic techniques. Use pharmacological and biochemical principles to interpret analytical findings, generate written and oral reports for clinical and forensic purposes.

SCIENTIFIC TESTING LABORATORIES - Richmond, VA

03/94 – 06/94 Certifying Scientist

Directed and controlled specialized Forensic Urine Testing involved in the legal analyses for drugs of abuse.

FIRM SPECIALTY TESTING LAB, MCV – Richmond, VA

08/89 – 09/91 Supervisor/Toxicologist

Planned, organized, directed and controlled specialized Forensic Laboratory involved in legal analyses, pesticide analyses, research and analyses for compounds not routinely performed in other toxicology laboratories.

CLINICAL TOXICOLOGY LAB, DEPT. OF PATHOLOGY, MCV -Richmond, VA

01/89 - 08/89 Laboratory Specialist

Analyzed biological specimens of a diverse nature, ranging from tissues taken at autopsy to therapeutic drugs and alcohols.

BUREAU OF FORENSIC SCIENCE, TOXICOLOGY LAB - Richmond, VA

04/88 – 01/89 Analytical Chemist

Analyzed biological specimens of a diverse nature for drugs and alcohols for medico-legal cases.

CLINICAL TOXICOLOGY LAB, DEPT. OF PATHOLOGY, MCV - Richmond, VA

08/82 – 03/88 Clinical Laboratory Specialist

Therapeutic drug monitoring of patient specimens, utilizing a variety of analytical techniques.

UNIFORMED SERVICES UNIVERSITY OF HEALTH SCIENCES, NNMC Bethesda, MD

01/81 – 11/81 Research Assistant, Department of Anatomy

Research involving neuropathway testing and various histological preparation of specimens.

SMITHKLINE and FRENCH, PSYCHOPHARMACOLOGY DEPARTMENT – Philadelphia, PA

06/77 - 08/77 Research Associate

Research involving behavioral effects of alcohol.

PROFESSIONAL PARTICIPATION:

2011 Reviewer, SOFT 2011 Meeting, Abstracts.

2008 Member, Working Pediatric Drug Abuse Group, UMDNJ

2007 Chair, Forensic Toxicology Seminar, EAS, Somerset, NJ, November 14, 2007

2004- SOFT Budget, Finance Committee Member

2003-2009 NJ Forensic Science Commission Member,

Toxicology Subcommittee Chairman

2001-2005 Federal Drug Testing Advisory Board member

2000 Reviewer – NRCC Toxicology Specialist Examination

2001 Proctor - NRCC Toxicology Specialist Examination

1999 Reviewer – Association of Analytical Chemists International

1999 Reviewer for Journal of Analytical Toxicology

1999 Reviewer for AOAC International

1999 National Laboratory Certification Program-(SAMSHA) - Inspector

1996 Laboratory Accreditation Inspector

College of American Pathologists – Forensic Urine Drug Testing (CAP-FUDT)

CERTIFICATIONS:

NRCC, Toxicological Chemist, TC #2864, July 1992

ABFT, Forensic Toxicology Specialist, October 1994

D-ABFT, Diplomat – American Board of Forensic Toxicology, #219

NY State License: Director of Laboratories – Serial #CQP6956

NJ Board of Medical Examiners – Bioanalytical Director License, No. 25MS00008800

PROFESSIONAL SOCIETIES:

American Academy of Forensic Science (AAFS)

American Association of Clinical Chemistry (AACC)

Society of Forensic Toxicology (S.O.F.T.)
The International Association of Forensic Toxicologists (T.I.A.F.T.)
National Association of Medical Examiners (N.A.M.E)

OTHER TRAINING:

1987 Principles of Risk Assessment

American College of Toxicology, Baltimore, Maryland

1995 Breath Alcohol Technician (BAT)

Chemical Tests for Intoxication Training Program under 49 CFR Part 40 on Intoxilyzer Model 5000-R

Breath Analysis Instrument, National Medical Services, Inc., June 12, 1995

1997 Crisis Management Workshop

Drug Information Association, Rockville, MD, October 5-7, 1997

1998 Rapid Microbiology for Regulated Industries

PDA Training and Research Institute, Baltimore, MD, May 21-22, 1998

1999 National Laboratory Certification Program Workshop

Research Triangle Institute, North Carolina, April 22-24, 1999

1999 Response to Bio-Terrorism,

111th Fighter Wing, Pennsylvania Air National Guard,

Horsham, PA, September 8, 1999

2002 Alcotest 7110 ML III

New Jersey Association of Forensic Scientists Seminar 4/19/02

2002 DUID: From Research to Courts

Society of Forensic Toxicology, Workshop, 10/2002

2002 MS/MS

Society of Forensic Toxicology, Workshop, 10/2002

2005 From Sample to Signal: Practical LC/MS

Society of Forensic Toxicology, Workshop, 10/2005

2005 Forensic Toxicology of Pesticides:

Society of Forensic Toxicology, Workshop, 10/2005

2006 Comprehensive Online Team Leader Self Study

College of American Pathologists, 12/06

2007 Getting the Most Out of Your Proficiency Testing

College of American Pathologists, 1/24/07

2007 SSRI Related Deaths

AAFS, 2/20/07

2007 Checklist Updates

College of American Pathologists 3/21/07

2009 Medical Review Assistant Course

2010 Getting The Most From ELISA

SOFT 10/18/10

2010 Tips, Tricks and Methods from Current Practitioners of LCMS

SOFT - 10/19/10

HONORS:

1974, Kappa Alpha Psi, Academic Scholarship, MSU

1978, SmithKline Brine Award for Scientific Research

1987-1988, Virginia Minority Graduate Fellowship

1991-1993, NIDA Predoctoral Fellowship

1993, CPDD Travel Award

EDUCATION:

Ph.D., Pathology, May 1994, Medical College of Virginia, Richmond, VA

M.S., Pathology, May 1988, Medical College of Virginia, Richmond, VA B.S., Biology, June 1978, Morgan State University, Baltimore, MD

MILITARY EXPERIENCE:

June 26, 1978 – Nov. 21, 1980, Second Lt., USAFR, Reserve Duty Medical Service Officer assigned to USUHS, Bethesda, MD Honorable Discharge: November 21, 1980

PUBLICATIONS:

- 1. Kim, Levasseur, Patterson, Jackson and Madge, "Reduction of Mortality in Experimental Brain Injury by Pretreatment with Indomethacin", Jr. Neurosurgery, 71:565-572, 1989.
- 2. L.E. Edinboro, G.F. Jackson, S.A. Jortani, A. Poklis, "Determination of Serum Acetaminophen in Emergency Toxicology: Evaluation of Newer Methods Abbott TDX and Second Derivative Ultraviolet Spectrophotometry", Jr. of Toxicology Clinical Toxicology, 29, 2:241-255, 1991.
- 3. G.F. Jackson, J.J. Saady and A. Poklis, "Urinary Excretion of Benzoylecgonine Following Ingestion of Health Inca Tea", Forensic Science International, 49:57-64, 1991.
- 4. G.F. Jackson, E.K. Enters, K.P. McDowell, J.R. Pascua, H.M. Allen, H. Guo, V.M. Chinchilli and S.E. Robinson, "Maternal and Fetal Brain and Plasma Levels of Cocaine and Benzoylecgonine (BE) Following Acute or Chronic Maternal Intravenous Administration of Cocaine", PET 1993.
- 5. G.F. Jackson, "Case Notes: A Mexiletine Poisoning?", Tox Talk, June 1995, Vol. 19, No. 2.
- 6. R.A. Middleberg, G.F. Jackson, J. Vinosky, Case Notes: Detection of Disulfoton, An esoteric pesticide, in an unexplained death. Tox Talk, Vol. 24, No. 1, March 2000.
- 7. G.F.Jackson, W.Dunn and D.C.Johnson, "Case Notes: Ketamine and Status Asthmaticus", Tox Talk, December 2000, Volume 24, No. 4.
- 8. G.F.Jackson, R.C.Kelly, "Hair Drug Testing Routine in Many Clinical and Forensic Applications", Emergency Medical News, September, 2001, pg 21-23.
- 9. G.F.Jackson, S. Diaconescu, "Case Notes: #3 Isoniazid Finding in a Postmortem Case", ToxTalk, December 2006, Volume 30, Issue 4, Pg 12
- 10. George F. Jackson, Ph.D., William A. Dunn, M.S., Zhongxue Hua, M.D., Ph.D., "Case Notes: Mixed Prescription Drug Death, ToxTalk, September 2007, Volume 31, Issue 3, Pg 8.
- 11. George F. Jackson, Ph.D., William A. Dunn, M.S., Lyla Perez MD, "Ketamine and Herion Drug Death" ToxTalk, December 2008, Volume 32, Issue 4, Pg.19

ABSTRACTS:

- 1. S.A. Jortani, L.E. Edinboro, G.F. Jackson and A. Poklis, "Determination of Serum Acetaminophen in Emergency Toxicology: Evaluation of Newer Methods: Abbott TDx and Second Derivative Ultraviolet Spectrophotometry", American Academy of Forensic Sciences, February, 1991, Anaheim, CA.
- 2. G.F. Jackson, E.K. Enters, K.P. McDowell, J.R. Pascua, H.M. Allen, H. Guo, V.M. Chinchilli and S.E. Robinson, "Maternal and Fetal Brain and Plasma Levels of Cocaine and Benzoylecgonine (BE) Following Acute or Chronic Maternal Intravenous Administration of Cocaine", NBTS, 1992, Boca Raton, FL.
- 3. G.F. Jackson, A.P. Mason, R.A. Middleberg, C.M. Selavka, D.F. Fritch and R.F. Turk, "A Model for Postdoctoral Education in Forensic Toxicology", Society of Forensic Toxicologists (S.O.F.T.), Baltimore, MD, October 1995.
- 4. G.F. Jackson, Jeremy J. Mihalov, Ara Der Marderosian and James Pierce, "DNA Fingerprinting of Herbal Samples Using Sequence Identification and RAPD Analysis", American Academy of Forensic Science, Orlando, FL, February, 1999.
- 5. Elliott M. Gross, Michael F. Rieders, G.F. Jackson, "As Investigators Close InY.Heart Attack Turns Out to be Diphenhydramine Overdose", American Academy of Forensic Sciences, Reno, NV, February 2000.
- 6. G.F.Jackson, "A Retrospective Analysis of DUI Drug Alcohol Concentrations from a Large Suburban County", Society of Forensic Toxicology, New Orleans, La., October 2001
- 7. George F. Jackson, Ph.D., William A. Dunn, M.S., AAn Analysis of Drug Findings in Drug Facilitated

- Sexual Assault Cases@ Society of Forensic Toxicology, Dearborn, MI, October, 2002
- 8. James C. Kraner,1 Susan A. Lewis1, George F. Jackson2, 1Palm Beach County Sheriff=s Office, 2National Medical Services, Unusually High Blood Concentration of Alprazolam along with Fentanyl in a Case of Driving Impairment, Society of Forensic Toxicology, Dearborn, MI, October, 2002
- 9. Hua, Z., Williams, A., Hart, G., Mundorff, A., Krolikowski, J., Perez, L., Shaikh, J., Jackson, G., Alnca bone is not an occipital skull fracture; a case report., NAME, September 2004.
- 10. Hua, Z., Mambo, N., Krolikowski, J., Perez, L., Shaikh, J., Williams, A., Jackson, G., ASudden Death due to isolated noncompaction of the ventricular myocardium; a case report, NAME, September 2004.
- 11. Krolikowski, J., Cerminara, L., Jackson, G.F., Mambo, N., Hua, Z., Blanchard, C., Blumenfeld, T., Perez, L., Shaikh, J., Williams, W., Issues in the Investigation of a Hospital Serial Killer, NAME, September, 2005.
- 12. Krolikowski, J., Cerminara, L., Presenting Authors: Blanchard, C., Blumenfeld, T., Hua, Z., Jackson, G.F., Mambo, N., Perez, L., Shaikh, J., Williams, W., Adolescent Suicides: Strategies and Options, NAME, September, 2005.
- 13. Z. Hua, MD.PhD., T. Blumenfeld, MD., G. Jackson, Ph.D., E. Lilavois, MD., N. Mambo, MD., et al. Traffic Fatalities in New Jersey, 1994-2003, NAME, September, 2006.

PRESENTATIONS:

- 1. G.F. Jackson, "The Pharmacokinetics and Selected Organ Biodisposition of sodium Indomethacin in Traumatized Rats", American College of Toxicology, 1987, Baltimore, MD.
- 2. G.F. Jackson, "Urinary Excretion of Benzoylecgonine Following Ingestion of Health Inca Tea", Society of Forensic Toxicology, 1990, Long Island, NY.
- 3. G.F. Jackson, "Material and Fetal Brain and Plasma Levels of Cocaine and Benzoylecgonine (BE) Following Acute or Chronic Maternal Intravenous Administration of Cocaine", NeuroBehavioral Teratology Society, 1992, Boca Raton, FL.
- 4. S.A. Jovetani, L.E. Edinboro, G.F. Jackson and A. Poklis, "Determination of Serum Acetaminophen in Emergency Toxicology", 4th Iranian Pharmaceutical Congress, October, 1992, Tabriz, Iran.
- 5. G.F. Jackson. "Pharmacology and Toxicology of New Drugs: New Challenges for the Forensic Toxicologist", American Academy of Forensic Sciences 47th Annual Meeting, Seattle, WA, February 1995.
- 6. G.F. Jackson, A.P. Mason, R.A. Middleberg, C.M. Selavka, D.F. Fritch and R.F. Turk. "A Model for Postdoctoral Education in Forensic Toxicology", Society of Forensic Toxicologists (S.O.F.T.), Baltimore, MD, October 1995.
- 7. G.F. Jackson, "Popular Poisons, Then and Now", Looking Back and Forward: Three Decades of Toxicological Adventures and Beyond, American Academy of Forensic Sciences 49th Annual Meeting, New York, NY, February 1997.
- 8. G.F. Jackson1, Jeremy J. Mihalov2, Ara Der Marderosian2 and James Pierce2, (1) National Medical Services, Inc., (2) University of the Sciences in Philadelphia, "DNA Fingerprinting of Herbal Samples Using Sequence Identification and RAPD Analysis", American Academy of Forensic Science, Orlando, FL, February, 1999.
- 9. Julie C. Conaron, Robert M. Lucas, George F. Jackson: "The Fascination and Eccentricities of Microorganisms Found in an Industrial/Forensic Microbiology Laboratory", American Academy of Forensic Science, General Section, Orlando, FL, February 1999.
- 10. Elliott M. Gross, Michael F. Rieders, G.F. Jackson, "As Investigators Close InY.Heart Attack Turns Out to be Diphenhydramine Overdose", American Academy of Forensic Sciences, February 2000, Reno, NV.
- 11. G.F.Jackson, "A Retrospective Analysis of DUI Drug Alcohol Concentrations from a Large Suburban County", Society of Forensic Toxicology, October 2001, New Orleans, La.
- 12. George F. Jackson, Ph.D., William A. Dunn, M.S., AAn Analysis of Drug Findings in Drug Facilitated Sexual Assault Cases@ Society of Forensic Toxicology, Dearborn, MI, October, 2002
- 13. James C. Kraner,1 Susan A. Lewis1, George F. Jackson2, 1Palm Beach County Sheriff=s Office, 2National Medical Services, Unusually High Blood Concentration of Alprazolam along with Fentanyl in a Case of Driving Impairment, Society of Forensic Toxicology, Dearborn, MI, October, 2002

- 14. Hua, Z., Williams, A., Hart, G., Mundorff, A., Krolikowski, J., Perez, L., Shaikh, J., Jackson, G., Alnca bone is not an occipital skull fracture; a case report., NAME, September 2004.
- 15. Hua, Z., Mambo, N., Krolikowski, J., Perez, L., Shaikh, J., Williams, A., Jackson, G., ASudden Death due to isolated noncompaction of the ventricular myocardium; a case report, NAME, September 2004.
- 16. Krolikowski, J., Cerminara, L., Jackson, G.F., Mambo, N., Hua, Z., Blanchard, C., Blumenfeld, T., Perez, L., Shaikh, J., Williams, W.., Issues in the Investigation of a Hospital Serial Killer, NAME, September, 2005.
- 17. Krolikowski, J., Cerminara, L., Presenting Authors: Blanchard, C., Blumenfeld, T., Hua, Z., Jackson, G.F., Mambo, N., Perez, L., Shaikh, J., Williams, W., Adolescent Suicides: Strategies and Options, NAME, September, 2005.
- 18. Z. Hua, MD.PhD., T. Blumenfeld, MD., G. Jackson, Ph.D., E. Lilavois, MD., N. Mambo, MD., et al. Traffic Fatalities in New Jersey, 1994-2003, NAME, September, 2006.
- 19. Cierra Green, N. Snow, G. Jackson, Analysis of Opiates in Urine and Blood using Solide Phase Microextraction, EAS, November 16, 2010

INVITED SPEAKER:

- 1. "Cocaine Metabolism", MCV Analytical Discussion Group, May 1982, Richmond, VA.
- 2. "The Role of Computers in Science", MCV Pharmacology Seminar, November 1986, Richmond, VA.
- 3. "Drug Awareness: The Role of the Toxicologists":, Blackwell Smith Boy Scouts Round Table, September 1989, Richmond, VA.
- 4. "Postmortem Drug Redistribution", MCV NeuroPharmacology Journal Club, November 1990, Richmond, VA.
- 5. "Vitreous Humor in the Evaluation of Postmortem Blood Ethanol Concentrations", MCV NeuroPharmacology Journal Club, November 1990, Richmond, VA.
- 6. "Human Liver Cocaine Esterases: Ethanol Mediated formation of Ethyl-cocaine", MCV NeuroPharmacology Journal Club, October 1991, Richmond, VA.
- 7. "Cloning and Expression of a Cocaine-Sensitive Dopamine Transporter Complementary DNA", MCV NeuroPharmacology Journal Club, December 1991, Richmond, VA.
- 8. "The Disposition, Timecourse and Developmental Effects of Cocaine and Ethanol in Pregnant Rats", MCV Pathology Grand Rounds, April 8, 1994, Richmond, VA.
- 9. AMetal Toxicology@ Lecture:, Toxicology Graduate Course, Thomas Jefferson University, April 6, 1995, Philadelphia, PA.
- 10. ANeuroToxicology@ Lecture, Toxicology Graduate Course, Thomas Jefferson University, April 15, 1997, Philadelphia, PA.
- 11. Alntroduction to Forensic Toxicology@, Chemistry Interest Group, Beaver College, March 11, 1998, Philadelphia, PA.
- 12. Neuro-Toxicity Lecture, Toxicology Graduate Course, Pharmacology Department, Jefferson University, April 6, 1998, Philadelphia, PA.
- 13. Herbal Products, Police Chief's Association of Montgomery County, April 16, 1998, Lower Pottsgrove, PA.
- 14. New Drug Trends, Bucks County Police Association Seminar, April 1998, Warminster, PA.
- 15. "Neuro-Toxicology" Lecture, Toxicology Graduate Course, Thomas Jefferson University, April 6, 1998, Philadelphia, PA.
- 16. "Introduction to Forensic Science" Lecture, Molecular Forensic Graduate Course, University of Sciences in Philadelphia, PA, February 22, 1999.
- 17. "NeuroToxicology" Lecture, Toxicology Graduate Course, Thomas Jefferson University, May, 1999, Philadelphia, PA.
- 18. "Atomic Absorption Spectrometry: ICP-MS", In-Service Training, Criminalistics Section, National Medical Services, June 9, 1999.
- 19. "Introduction to Forensic Science" Lecture, "Behind the Crime Scene", Temple University, September, 1999, Philadelphia, PA.
- 20. "Forensic Update", Continuing Education, Abington Police Department, October 18, 1999, Abington,

PA.

- 21. Seminar: Herbal Medicines, Fredric Rieders Family Renaissance Foundation, National Medical Services, Willow Grove, PA, December 16, 1999.
- 22. "Drug Facilitated Sexual Assault", In-Service for Sexual Assault Field Examiners, National Medical Services, June 28, 2000.
- 23. "Proficiency Testing", Continuing Educational In-Service, National Medical Services, June 29, 2000.
- 24. "Drug Facilitated Sexual Assault", Medical Staff, Lancaster General Hospital, February, 8, 2001.
- 25. "Drug Facilitated Sexual Assault", Bucks County Police Training Center, In Service Training, March 16, 2001.
- 26. Arson Investigation, Bucks County Police Training Center, In Service Training, March 16, 2001.
- 27. "Drug Facilitated Sexual Assault", Philadelphia Public Defender's Association, June 30, 2001.
- 28. ACurrent Trends in Drug Usage@, Chester County Police Chief=s Association@, August 8, 2001.
- 29. "Introduction To Forensic Science", Biology Department, Arcadia University, Philadelphia, PA, October 31, 2001.
- 30. "Forensic Toxicology: Hair Analysis", Seminar Series, Dept. of Physiology and Pharmacology, Hahnemann School of Medicine, Philadelphia, PA, November 16, 2001.
- 31. ADrug Facilitated Sexual Assault@, NJ Public Defenders Association, Trenton, NJ, January 16, 2002.
- 32. ADrug Facilitated Sexual Assault@, Office of the Public Defender, Continuing Legal Education Series, Delaware, March 22, 2002.
- 33. AForensic Hair Testing@, Department of Physiology and Pharmacology, Hahneman Medical College of Pennsylvania, April 25, 2002.
- 34. "Drug Facilitated Sexual Assault", National Defender Investigator Association, Northeast Regional Conference, Philadelphia, Pennsylvania, September 26, 2002.
- 35. ASerotinergic Drugs: SSRI@, Fellowship Lecture, Regional Medical Examiners Office Newark, NJ November 17, 2004
- 36. ABuprenorphine & Opiate Addition Treatment@, Fellowship Lecture, Regional Medical Examiners Office, Newark, NJ, January 12, 2005
- 37. Alntroduction to Forensic Toxicology@, Union County Police Academy, Homicide Investigator=s Course, Scotch Plains, NJ, February 15, 2005.
- 38. Forensic Toxicology, Medicolegal Death Investigation Course, Monmouth University, Dept. of Criminal Justice, West Long Branch, NJ, June 16, 2005.
- 39. Forensic Toxicology, Mixed Drug Deaths, Arcadia University, FR Foundation, Willow Grove, PA, December 1, 2005.
- 40. Forensic Toxicology, Interpretation Issues, Fellowship Lecture, Regional Medical Examiners Office, Newark, NJ, December 7, 2005.
- 41. Pesticides: Part 2, Continue Education, State Toxicology Lab, Newark, NJ, January 18, 2006.
- 42. Forensic Toxicology: Intrepretation Issues, Pathology Grand Rounds, UMDNJ, NJ, March 22, 2006.
- 43. Forensic Toxicology: Medicolegal Death Investigation Course, Monmouth University, Department of Criminal Justice, West Long Branch, NJ, May 24, 2006
- 44. Mixed Drug Deaths, Arcadia University, NMS Foundation, September 21, 2006.
- 45. Forensic Toxicology: Issues in Forensic Toxicology, Pathology Grand Rounds, UMDNJ, NJ, October 4, 2006.
- 46. Laboratory Accreditation-Forensic Toxicology, Continue Education, Regional Medical Examiners Office,

Newark, NJ, October 11, 2006.

- 47. Forensic Toxicology, Analytical Chemistry and Forensic Science Seminar, EAS, Somerset, NJ, November 14, 2006
- 48. Medication Errors, Continue Education, State Toxicology Laboratory, Newark, NJ, December 7, 2006
- 49. Medication Errors, Continue Education, Regional Medical Examiners Office, Newark, NJ, Jan. 3, 2007
- 50. Forensic Science, Mt. Vernon Middle School, Newark, NJ Jan. 29, 2007
- 51. Keynote Address, Forensic Mentors Institute, FRFR Foundation, August 16, 2007
- 52. Forensic Toxicology, NJ Office of Public Defender 40th Annual Convention, Atlantic City, NJ

September 6, 2007

- 53. Forensic Toxicology, Analytical Chemistry and Forensic Science, Eastern Analytical Symposium, Somerset, NJ, November 13, 2007
- 54. Chair, Forensic Toxicology Seminar, EAS, Somerset, NJ, November 14, 2007
- 55. Forensic Toxicology: Intrepretation Issues, Fellowship Lecture, Regional Medical Examiners Office, Newark, NJ, December 5, 2007.
- 56. Death: Forensic Toxicology Viewpoint, Guest Lecturer, Psychology, Burlington Community College Burlington, New Jersey, April 25, 2008
- 57. Forensic Toxicology, Essex County Police Academy, May 21, 2008
- 58. Natural Toxins, Fellowship Program, RMEO, Newark, NJ, June 11, 2008
- 59. Medical Examiner System, Lecturer, Forensic Mentors Institute, FRFR Foundation, July 3, 2008
- 60. Forensic Toxicology, Analytical Chemistry and Forensic Science, Eastern Analytical Symposium, Somerset, NJ, November 18, 2008
- 61. Toxicology: Clinical & Forensic, Pathology Grand Rounds, UMDNJ, NJ, March 4, 2009
- 62. Forensic Toxicology, Essex County Police Academy, May 5, 2009
- 63. Forensic Toxicology, Career Day, New York Avenue School, Atlantic City, NJ 08401, June 18, 2009
- 64. LEDT Seminar, Middlesex County Internal Affairs Group, Middlesex County, NJ, September 16, 2009
- 65. Forensic Toxicology, Career Day, New York Avenue School, Atlantic City, NJ 08401, April 21, 2010
- 66. Forensic Toxicology, Essex County College Police Academy, April 6, 2011
- 67. Forensic Toxicology, Career Day, New York Avenue School, Atlantic City, NJ 08401, June 9, 2011