

## CURRICULUM VITAE

**Bruce A. Goldberger, Ph.D., F-ABFT**

### Professional

#### Address:

Forensic Medicine Division  
Department of Pathology, Immunology and Laboratory Medicine  
University of Florida College of Medicine  
1200 S.W. 34th St.  
Gainesville, FL 32607

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### EDUCATION

May, 1982

B.A. degree in Zoology  
Drew University  
Madison, New Jersey

August, 1985

M.S. degree in Forensic Toxicology  
University of Maryland School of Medicine  
Department of Pathology, Division of Forensic Pathology  
Baltimore, Maryland

Thesis: "*In vitro* and *in vivo* studies of the collection and delayed analysis of the alcohol content in breath."

January, 1993

Ph.D. degree in Forensic Toxicology  
University of Maryland School of Medicine  
Department of Pathology, Division of Forensic Pathology  
Baltimore, Maryland

Dissertation: "Measurement and interpretation of heroin, 6-acetylmorphine and morphine concentrations in biological tissues obtained from heroin users and heroin-related deaths."

**PROFESSIONAL POSITIONS**

May 1, 2023 to present	Professor, Clinical Track Department of Pathology, Immunology and Laboratory Medicine Department of Psychiatry (Division of Addiction Medicine) University of Florida College of Medicine Gainesville, Florida
October 31, 2015 to June, 2018	Medical Director Infectious Disease Pharmacokinetics Laboratory University of Florida College of Pharmacy Gainesville, Florida
July 1, 2014 to July, 2019	Medical Director, Clinical Toxicology Laboratory UF Health Pathology Laboratories Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
July 18, 2013 to present	Director, UF Health Forensic Medicine University of Florida College of Medicine Gainesville, Florida
May 20, 2013 to May 1, 2023	Chief, Forensic Medicine Division Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
July 1, 2012 to October, 2018	Director, UF Racing Laboratory Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
July, 2005 to May 1, 2023	Professor and Director of Toxicology, Clinical Track Department of Pathology, Immunology and Laboratory Medicine Department of Psychiatry (Division of Addiction Medicine) University of Florida College of Medicine Gainesville, Florida
November, 2002 to June 2005	Associate Professor, Clinical Track Department of Psychiatry (Division of Addiction Medicine) University of Florida College of Medicine Gainesville, Florida

July, 2001 to June 2005	Associate Professor and Director of Toxicology, Clinical Track Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
July, 1999 to June, 2001	Assistant Professor and Director of Toxicology, Clinical Track Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
October, 1994 to June, 1999	Assistant Professor and Director of Toxicology, Tenure Track Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
September, 1987 to September, 1994	Toxicologist National Center for Forensic Science a division of Maryland Medical Laboratory Baltimore, Maryland
September, 1989 to May, 1992	Assistant Toxicologist and Toxicology Laboratory Manager Toxicology Laboratory Office of the Chief Medical Examiner Baltimore, Maryland
July, 1986 to September, 1989	Assistant Toxicologist Toxicology Laboratory Office of the Chief Medical Examiner Baltimore, Maryland
September, 1982 to September, 1987	Laboratory Technologist Clinical Toxicology Department Maryland Medical Laboratory Baltimore, Maryland

## **CERTIFICATIONS**

Fellow (formerly Diplomate). American Board of Forensic Toxicology, Certificate Number 1120 (formerly 218) (3/1/99-12/31/24)

Forensic Toxicology Specialist. American Board of Forensic Toxicology, Certificate Number 5001 (11/1/92-2/28/99)

Toxicological Chemist. National Registry of Certified Chemists (previously known as the National Registry in Clinical Chemistry), Certificate Number 2254 (1991-2012)

## **LICENSURES**

Clinical Laboratory Director (Clinical Chemistry). Board of Clinical Lab Personnel, Department of Business and Professional Regulation, State of Florida, License Number DI 33647 (5/18/95-8/31/24)

## **HONORS AND AWARDS**

Educational Research Award. Society of Forensic Toxicologists, 1984 and 1986  
Sunshine Award. Toxicology Section, American Academy of Forensic Sciences, 1988  
Toxicology Section Scholarship. American Academy of Forensic Sciences, 1991  
Outstanding Scientific Achievements by a Young Investigator Award. American Association for Clinical Chemistry, 1994  
Mid-Career Achievement Award, The International Association of Forensic Toxicologists, 2004  
Excellence in SPE Award, United Chemical Technologies, 2005  
Alexander O. Gettler Award, Toxicology Section, American Academy of Forensic Sciences, 2006  
Outstanding Achievement Award, Florida Association of Medical Examiners, 2008  
Achievement in the Sciences Award, Drew University, 2012  
Robert F. Borkenstein Award, Alcohol, Drugs and Impairment Division, National Safety Council, 2017  
Richard Saferstein Memorial Award in Forensic Science, Northeastern University, 2018  
Distinguish Fellow, American Academy of Forensic Sciences, 2022  
Distinguished Service Award, Society of Forensic Toxicologists, 2022

## **PATENTS**

Devices and methods for the collection and detection of substances (US 8,388,907), issued March 5, 2013  
Devices and methods for the collection and detection of substances (US 8,414,846), issued April 9, 2013  
Devices and methods for the collection and detection of substances (US 9,360,398), issued June 7, 2016

## **CAMPUS ACTIVITIES**

### **Teaching**

#### *College of Medicine:*

Translational Neuroscience: Junior Honors Medical Program (MEL 4001) – Forensic Medicine  
Pathology Resident Rotation (Preceptor)  
Responsible Conduct of Biomedical Research (GMS 7003) – Authorship and Peer Review  
Clinical and Translational Science Institute Student Seminar Course (GMS 6893) – Addiction

*University of Florida, Thesis/Doctoral Dissertation Committee Member:*

Michael W. Belford, Department of Chemistry, 2001-2003  
 Matthew W. Warren, Department of Psychiatry, 2003-2006  
 Timothy L. Naylor, Department of Physiological Sciences, 2003-2005  
 Frank Kero, Department of Chemistry, 2004-2008  
 David Khey, Department of Criminology, Law and Society, 2005-2009  
 Marilyn Prieto, Department of Chemistry, 2007-2010  
 Rich Reich, Department of Chemistry, 2007-2010  
 Weiyi Ni, Interdisciplinary Program in Biomedical Sciences, 2008-2012  
 Irene Perez, Interdisciplinary Program in Biomedical Sciences, 2012-2013  
 Chris Delcher, Department of Epidemiology, 2011-2014  
 Katie Rubin, Department of Anthropology, 2013-2019  
 Lerah Sutton, Department of Anthropology, 2013-2017  
 Jessica Hvozdoch, Department of Pathology, 2015-2017  
 Nicole Fitzgerald, Department of Epidemiology, 2019-2024

*Student/Doctoral/Post-Doctoral/Fellowship Training:*

<u>Name</u>	<u>Program</u>	<u>Date</u>
Diana Garside	Post-Doctoral Fellowship in Forensic Toxicology	1994-1997
Jeri Roper-Miller	Graduate Student – Doctoral	1994-1998
Ruth Winecker	Graduate Student – Doctoral	1994-1996
Jason Byrd	Graduate Student Rotation (UF)	1996
Bart Wacek	Graduate Student Intern	1996
Mary Rucker	Graduate Student – IDP Lab Rotation	1998
Richard Fox	Center for Precollegiate Education and Training	1998
Gretchen Miller	Graduate Student – Master’s	1998-1999
Beth Ladlie	Graduate Student – UF IDP Lab Rotation	1998
Tara Sabo	Graduate Student – UF IDP Lab Rotation	1999
Andria Hobbs	Undergraduate Student – University Scholars Program	1999-2000
Kristofer Rau	Graduate Student – UF IDP Lab Rotation	1999
Jessica Walrath	Graduate Student – UF IDP Lab Rotation	2000
Bruno De Martinis	Visiting Scientist (Brazil)	2000-2001
Karen Vieira	Graduate Student – UF IDP Lab Rotation	2001
Michele Merves	Graduate Student – Doctoral/Post-Doctoral	2001-2009
Sheng-Meng Wang	Visiting Scientist (Taiwan)	2001
María Antonia Martínez González	Visiting Scientist (Spain)	2002
Rebecca Murray	Pharmacy Student	2002-2003
Ansley Gascoigne	Undergraduate Intern (UCF)	2004
Kelly MacDougall	Graduate Student – UF IDP Lab Rotation	2005
Rebecca Fidler	Undergraduate Intern (UCF)	2005

Jennifer Hoyer	Undergraduate Intern (UCF)	2005
Christopher Moody	Undergraduate Intern (UCF)	2005
Melissa Clarady	Undergraduate Intern (UCF)	2006
Kimberly Fitzgerald	Medical Student (UF College of Medicine)	2006
Melanie Atkinson	High School Student (PK Young)	2006
Jenna Chin	Undergraduate (UF Senior Research)	2006-2007
Sarah Guilmain	Graduate Student – UF IDP Lab Rotation	2006
Diana Sum	Pharmacy Student (UF)	2007
Suzanne Bialeck	Medical Student (UF College of Medicine)	2008
Yara van Leeuwen	Graduate Student (University of Amsterdam)	2008
Camille Moore	Undergraduate Intern (UCF)	2008
Samantha Arzillo	Undergraduate (UF)	2008-2009
Brittany Marshall	Undergraduate (UF)	2008-2010
Amy Mitchell	Undergraduate Intern (UCF)	2009
Jennifer Lewis	Intern (UF)	2009
Christopher Roeser	Intern (UF)	2009-2010
Marissa Finkelstein	Intern (UF)	2010-2012
Lauren Sanborn	Intern (UF)	2012
Marc Rumpier	Post-Doctoral Fellowship in Toxicology	2012-2013
Dayong Lee	Post-Doctoral Fellowship in Toxicology	2013-2015
Marissa Finkelstein	Graduate Student – Masters	2013-2015
Katie Rubin	Graduate Student – Doctoral	2013-2019
Sarah Fraser	Undergraduate (UF)	2015-2016
Jessica Hvozdvich	Graduate Student – Masters	2015-2017
Julia Malinowska	Undergraduate (Robert Gordon University)	2016
Meagan Wisniewski	Post-Doctoral Fellowship in Toxicology	2018-2020
Michael Truver	Post-Doctoral Fellowship in Toxicology	2021-2023
Leena Dhoble	Post-Doctoral Fellowship in Toxicology	2022-2023
Marco Ballotari	Post-Doctoral Fellowship in Toxicology	2024-

### Administration

#### *College of Medicine*

Member, Medical Selection Committee, 2005-2011

Member, Search Committee, Chair of the Department of Pharmacology and Therapeutics  
and Director of the UF Institute of Therapeutic Innovations, 2010-2013

MS Admission Committee, 2014-2015

#### *Department of Pathology, Immunology and Laboratory Medicine*

Chief, Forensic Medicine Division, 2013-2023

Director, UF Health Forensic Medicine, 2013-present

Director, William R. Maples Center for Forensic Medicine, 1999-present

Founder & Program Director, Florida Emergency Mortuary Operations Response System,  
2001-2023

Chairman, Biosafety Committee (1994-present)

Chairman, Search Committee (2012, 2013, 2014, 2017, 2019-2023)

*University of Florida (Office of the President)*

Platform Operations Assistant, University Commencements, 2015-2018

Member, Commencement Committee, 2014-present

Associate Chief Marshal for Platform Operations, University Commencements, 2018-present

*University of Florida University Athletic Association*

Member, University Athletic Association Substance Abuse Committee

**OTHER ACADEMIC ACTIVITIES**

Adjunct Assistant Professor in Clinical Chemistry. University of Maryland School of Medicine,  
Department of Medical and Research Technology, Baltimore, Maryland, 1991-1992 and  
1993-1994

Thesis Advisor for Patrick Carpenter. College of Graduate Studies, Thomas Jefferson University,  
Philadelphia, Pennsylvania, 1994

External Examiner for Sarah Kerrigan. Faculty of Graduate Studies, The University of British  
Columbia, Vancouver, B.C. Canada, 1997

External Examiner for Veronica Hargrove, Graduate School of Biomedical Sciences, University of  
Texas Health Science Center, San Antonio, Texas, 2013

Community Faculty, Department of Medical Education, Orlando Health Pathology Residency  
Program, Orlando, Florida, 2013-2023

**PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

American Academy of Forensic Sciences

Fellow, 1983-present

Academy Activities

Program Committee, Poster Session Chair, 1994

Nominating Committee, 1996-1997

Council, 1995-1997

Program Committee, Breakfast Seminars Chair, 1997-1998

Program Committee, Poster Session Chair, 1998-1999

Strategic Planning Committee, 1997-1998

Long Term Planning Committee, 1998-2008

Board of Directors (Toxicology Section Representative), 1999-2002

Academy-Wide Luncheons, Moderator, 2000

Program Committee, Workshop Chair, 2000-2001  
 Forensic Sciences Foundation Nominating Committee, 2000-2001  
 Program Committee, Program Co-Chair, 2001-2002  
 Program Committee, Program Chair, 2002-2003  
 Policy and Procedure Committee, 2002-2007  
 AAFS Website Redesign Task Force, Chair, 2002-2003  
 AAFS Website Content Oversight Task Force, 2003-2004  
 Vice President, 2003-2004  
 Membership Committee, Chair, 2003-2004  
 Treasurer, 2004-2006  
 Executive Committee, 2004-2008  
 Finance Committee, 2006-2011, 2014-present  
 Forensic Sciences Foundation Nominating Committee, 2005-2006  
 President-Elect, 2006-2007  
 Trustee, Forensic Sciences Foundation, 2006-2008  
 President, 2007-2008  
 Board of Directors, 2008-2009  
 Nomination Committee, 2008-2010  
 Media and Public Relations, Chair/Liaison, 2008-2021  
*ad hoc* Outreach Committee Member, 2009-2010  
 Awards Committee, 2010-2012  
 Exhibitor Liaison Committee, 2010-2012  
 Ethics Committee, 2017-2019  
*ad hoc* Synthetic Opioids Committee, 2017-2021  
*ad hoc* AAFS Confidentiality and Financial Disclosure Committee, 2022-2024

#### Toxicology Section Activities

Workshop Co-Chair, 1992-1995, 1999  
 Program Committee, 1992-1996  
 Program Chair, 1994-1995  
 Secretary, 1995-1996  
 Chairman, 1996-1997  
 Nominating Committee, Chair, 1997-1998  
 Abstract Guidelines Committee, 1995-1996  
*News and Views*, Editor, 1993-1996  
 Steering Committee, 1994-present  
 Minutes Review Committee, 1994-1999  
 Awards Committee, 1997-1999, 2001-2003  
*ad hoc* Membership Guidelines Committee, 1994-1999

#### American Association for Clinical Chemistry

Member, 1984-2020  
 TDM/Tox LIP Committee, 1991-1996; Chairman, 1995-1996  
 FUDT Newsletter Editorial Advisory Board, 1997 -1998  
 Clinical & Forensic Toxicology News Editorial Advisory Board, Chairman, 1999 - 2001  
 Workshop Leader, 1993-1994



AACC Academy (formerly National Academy of Clinical Biochemistry)

Fellow, 2003-2020

American Board of Forensic Toxicology

Board of Directors, 2000-present

Treasurer, 2002-2008

Vice President, 2008-2012

President, 2012-present

Association of Official Racing Chemists

Affiliate Member, 2013-2020

California Association of Toxicologists

Associate Member, 1993-2023

Florida Association of Medical Examiners

Affiliate Member, 2008-present

Educational Conference Committee, 2016-present

Forensic Specialties Accreditation Board

Board of Directors, 2011-present

Treasurer, 2014-2018

President, 2018-2021

Past-President, 2021-2022

International Association for Chemical Testing

Member, 1999-present

International Veterinary Forensic Sciences Association

Full Charter Member, 2009-2020

Board of Directors, 2009-2014

National Committee for Clinical Laboratory Standards

Gas Chromatography/Mass Spectrometry Confirmation of Drugs Committee, 1993-2002

National Registry of Certified Chemists

Board of Directors, 2001-2003

Examination Committee, 2001-2003

National Safety Council – Alcohol, Drugs and Impairment Division (formerly Committee on Alcohol and Other Drugs)

Member, 1988-present

Executive Board, 1992-2021

Scientific Working Group on Forensic Toxicology (SWGTOX)

Co-Chair (founding), 2009-2012

Executive Committee, 2012-2013

Chair, Research, Development, Testing and Evaluation Committee, 2009-2013

Chair, Education, Ethics, Outreach and Certification Committee, 2012-2013

Society of Forensic Toxicologists

Member, 1983-present

Advisory Committee on Hair Analysis, 1991-1992

SOFT Web-site/IT Committee, Chair, 1997-2018

SOFT Logo Redesign Committee, Chair, 1997

Board of Directors, 1998-2000

Special Issue Editor, Journal of Analytical Toxicology, 1999  
Board of Directors (ex officio), 2005-2010  
Board of Directors, 2011-2018  
Executive Committee, 2011-2012, 2014-2017  
*ad hoc* Advocacy Committee, Chair, 2011-2013  
SOFT 2013 Annual Meeting, Chair, 2009-2013  
Secretary, 2014-2015  
Vice President, 2016  
President, 2017  
Past-President, 2018  
Bylaws Committee, Chair, 2018-2019  
History Committee, Chair, 2019-2021  
The International Association of Forensic Toxicologists (TIAFT), Member, 1991-present  
T'2007 Scientific Advisory Committee, 2007  
TIAFT Achievement Awards Committee, 2010-2019

### **EDITORIAL TASKS**

Clinica Chim Acta – Member, Editorial Board, 1999-2003  
Clinical and Forensic Toxicology News – Chairman, Editorial Advisory Board, 1999-2001  
Forensic Science Review – Member, Board of Editors, 2002-present  
Journal of Analytical Toxicology (Oxford University Press, 2012-present) – Official Journal of the Society of Forensic Toxicologists & The International Association of Forensic Toxicologists  
Editor-in-Chief, 2001-present  
Member, Editorial Advisory Board, 1997-2000  
Society of Forensic Toxicologists Special Issue Editor, October, 1999  
Journal of Forensic Sciences – Member, Editorial Board, 1997-2013  
Therapeutic Drug Monitoring and Toxicology – Chairman, Editorial Board, 1995-1996  
Clarke's Analysis of Drugs and Poisons, Pharmaceutical Press – Member, Editorial Advisory Board, 2000-2012

### **GRANT AND CONTRACT FUNDING**

Florida Emergency Mortuary Operations Response System (FEMORS), Florida Department of Health, Bureau of Preparedness and Response  
Forensic Epidemiology Services, Florida Department of Health, Division of Public Health Statistics and Performance Management  
Substance Use and Immunity in HIV+ Adolescents by Systems Biology, NIH/NIDA, Project Number 5R01DA031017-04  
Seizing the Momentum: A Multidisciplinary Approach to Reduce Rx Drug Abuse in Florida, BJA FY 13 Harold Rogers Prescription Drug Monitoring Program, U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Assistance, Project Number 2013-PM-BX-0010 (in collaboration with the Florida Department of Health)

Florida's Next Generation of Prescription Drug Related Surveillance: Data into Insights that Enhance PDMP Best Practices, BJA FY 16 Harold Rogers Prescription Drug Monitoring Program, U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Assistance, Project Number 2016-PM-BX-K005

U.S. Centers for Disease Control and Prevention, [National Center for Injury Prevention and Control](#), Intergovernmental Personnel Act Mobility Program

U.S. Centers for Disease Control and Prevention, National Center for Health Statistics, Intergovernmental Personnel Act Mobility Program

Better Intelligence Gathering for Public Safety and Public Health (BigPUSH), U.S. Department of Justice, Office of Justice Programs, Bureau of Justice, Project Number 2017-PM-BX-K038

Health Outcomes and Cognitive Effects of Marijuana Use Among Persons Living with HIV/AIDS. NIH/NIDA, Project Number R01DA042069

National Drug Early Warning System Coordinating Center at the University of Florida, NIH/NIDA, Project Number U01DA051126

### **CONSULTANT AND OTHER RELATED ACTIVITIES**

Expert Witness/Consultant in Forensic Toxicology. Qualified as an Expert in Forensic Toxicology more than 400 times in Federal, State, Canadian, and Military Courts of Law. Testified in high profile cases including State of Florida v. Casey Anthony (2011), United States of America v. Roger Clemens (2012), and Major League Baseball v. Alex Rodriguez (2013)

Consultant. U.S. Centers for Disease Control and Prevention, National Center for Injury Prevention and Control (Overdose Mortality Team); and National Center for Health Statistics (Collaborating Office for Medical Examiners and Coroners)

Consultant. U.S. Department of the State

Consultant. U.S. Drug Enforcement Administration

Consultant. Office of the Attorney General of Florida

Consultant. Florida Department of Law Enforcement, Alcohol Testing Program & Medical Examiners Commission

Consultant. Florida Highway Patrol

Laboratory Inspector. National Laboratory Certification Program, Substance Abuse and Mental Health Services Administration, DHHS, 1989-2000

Laboratory Inspector. American Board of Forensic Toxicology, 2010-present

Chairman. Florida Department of Law Enforcement/Institute of Police Technology and Management Implied Consent Rules Committee, 1999-2000

Member. Substance Abuse Committee, Athletic Programs, Santa Fe Community College, 1997-2021

Co-Chair. Methadone Associated Mortality: A National Assessment Workshop, Center for Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration, 2003

Consultant. National Football League Players Association, 2006-2007

Co-Chair. Methadone Mortality: A Reassessment, Center for Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration, July, 2007

Consultant. Clinical Chemistry and Clinical Toxicology Devices Panel, Center for Devices and Radiological Health, Food and Drug Administration, 2008-2020

Member. State of Florida Drug-Related Death Workgroup, Office of Drug Control, Office of the Governor, State of Florida, 2008-2010

Co-Chair. Expert Panel on Uniform Standards and Case Definitions for Classifying Methadone-Associated Deaths, Center for Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration, 2009

Medical Examiner Drug Report Task Force. Florida Department of Law Enforcement, Medical Examiner Commission, 2009

Co-Chair. Methadone Mortality: A Reassessment, Center for Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration, Washington, D.C., 2010

Member. National Association of Medical Examiners and American College of Medical Toxicology Expert Panel on Opioid Deaths, 2012-2013

Member. Evolving and Emerging Threats Committee, White House Office of National Drug Control Policy, Executive Office of the President, 2019-present

Subcommittee Chair. Drug Taxonomy, Medicolegal Death Investigation Data Working Group (MDI-Data-WG), Forensic Technology Center of Excellence (FTCoE), RTI International, and the National Center for Health Statistics, U.S. Centers for Disease Control and Prevention, 2020-2022

Subcommittee Member. Synthetic Drugs, Medicolegal Death Investigation Data Working Group (MDI-Data-WG), Forensic Technology Center of Excellence (FTCoE), RTI International, and the National Center for Health Statistics, U.S. Centers for Disease Control and Prevention, 2022-2023

Subject Matter Expert. PROJECT ECHO: Overdose Fatality Investigation Techniques (OD-FIT), Association of State and Territorial Health Officials, 2020-2023

Member. Opioids Biosurveillance Task Force, Association of Public Health Laboratories, 2021-present

## **REVIEW OF GRANTS AND CONTRACTS**

Consultant. Counterdrug Technology Assessment Center Demand Reduction Advisory Board, Office of National Drug Control Policy, Executive Office of the President, 1993

Consultant. Maternal Lifestyle Study, National Institute of Child Health and Human Development, National Institutes of Health, 1992-1993

Consultant. Measurement of Caffeine, Paraxanthine and Osmolality in Serum from the Collaborative Perinatal Project, National Institute of Child Health and Human Development, National Institutes of Health, 1996

ad hoc Committee Member. Molecular, Cellular and Chemical Neurobiology Research Review Subcommittee [NIDA/B], National Institute on Drug Abuse Initial Review Group, National Institutes of Health, 1996-1997

ad hoc Reviewer. Clinical Protocols, Addiction Research Center, National Institute on Drug Abuse, National Institutes of Health, 1998

ad hoc Committee Member. Epidemiology and Prevention Review Committee [NIDA/G], National Institute on Drug Abuse Initial Review Group, National Institutes of Health, 1998

ad hoc Reviewer. NIDA/INVEST Research Fellowship Program, National Institute on Drug Abuse, National Institutes of Health, 2000

Reviewer. FY 2005 General Forensics Research and Development Solicitation, Office of Science and Technology, National Institute of Justice, U.S. Department of Justice, 2005

Reviewer. FY 2006 Forensic Toxicology Research and Development (R&D) Solicitation, Office of Science and Technology, National Institute of Justice, U.S. Department of Justice, 2006

Member. Clinical Chemistry and Clinical Toxicology Advisory Committee, Food and Drug Administration, 2013-2020

### **INVITED LECTURES**

The Use of Quality Control by Forensic Urine Drug Testing Laboratories. Hewlett-Packard Clinical/Forensic Seminar, Rockville, Maryland, April, 1989.

Principles of Forensic Toxicology. Forensic Toxicology Workshop, Department of Health and Rehabilitation Services, State of Florida, Orlando, Florida, April, 1990.

Drug Testing in the 1990s. 1991 Hewlett-Packard User's Group Meeting, American Society of Mass Spectrometry, Nashville, Tennessee, May, 1991.

Optimization of GC/MS. Hewlett-Packard User's Group Meeting, Baltimore, Maryland, October, 1991.

FPDT: Forensic Pelage Drug Testing (Breakfast Seminar). American Academy of Forensic Sciences, New Orleans, Louisiana, February, 1992.

Optimization of GC/MS. Forensic and Clinical Drug Analysis by GC/MS. Hewlett-Packard Sponsored Workshop, American Association for Clinical Chemistry, Chicago, Illinois, July, 1992.

Confirmation. Preparing for the NIDA NLCP Inspections: Problems Commonly Encountered by Inspectors. Society of Forensic Toxicologists, Cromwell, Connecticut, October, 1992.

Hair Testing: The Growing Way to Test for Drugs of Abuse. The Pittsburgh Conference, Atlanta, Georgia, March, 1993.

Disposition of Heroin and 6-Acetylmorphine in Hair. Clinical Pharmacology/Toxicology Forum, Baltimore, Maryland, March, 1993.

Testing for Abused Drugs in Human Hair. 1993 Hewlett-Packard User's Group Meeting, American Society of Mass Spectrometry, San Francisco, California, May, 1993.

Hair. Drug Analysis of Unusual Biological Tissues. American Association for Clinical Chemistry, New York, New York, July, 1993.

Heroin and Metabolites in Biological Tissues Obtained from Heroin Users and Heroin-Related Deaths. Roche Diagnostics Seminar, Branchburg, New Jersey, August, 1993.

Seminar: Measurement and Interpretation of Heroin, 6-Acetylmorphine and Morphine Concentrations in Biological Tissues. Department of Medical and Research Technology, University of Maryland School of Medicine, Baltimore, Maryland, September, 1993.

- Study of the Effect of "UrinAid" on HHS Regulated Urine Specimens. Drug Testing Advisory Board, Division of Workplace Programs, Substance Abuse and Mental Health Services Administration, Bethesda, Maryland, September, 1993.
- Current Status of Hair Drug Testing. Capital Section, American Association for Clinical Chemistry, Baltimore, Maryland, November, 1993.
- Optimization Techniques for GC/MS. The In's and Out's of Capillary Gas Chromatography: Routinely Utilized Inlet and Detector Systems. American Academy of Forensic Sciences, San Antonio, Texas, February, 1994.
- Opiates. Forensic Toxicology. Armed Forces Institute of Pathology, Vienna, Virginia, April, 1994.
- Adulteration Issues-Laboratory Checks and Balances. Substance Abuse Workshop. Department of Energy, Alexandria, Virginia, May, 1994.
- Hair. Drug Analysis of Unusual Biological Tissues. American Association for Clinical Chemistry, New Orleans, Louisiana, July, 1994.
- Pharmacology of Heroin and Related Opiates in Hair. SOFT Conference on Drug Testing in Hair, Tampa, Florida, October, 1994.
- Opiates. Fundamentals of Forensic Toxicology: A Basic Course. Society of Forensic Toxicologists, Baltimore, Maryland, October, 1995.
- Testing for Drugs in Hair. Seminar. Departments of Pharmacodynamics and Pharmaceutics, University of Florida College of Pharmacy, Gainesville, Florida, October, 1995.
- Postmortem Toxicology. Advances in Alcohol and Drug Testing-Significance for Legal Proceedings. Toxicology Consultants Forensic Science CLE Seminar Series. Fort Lauderdale, Florida, December, 1995.
- The Analysis of Anabolic Agents in Sports. Amateur Athletic Drug Testing – Substance Abuse Policy. American Academy of Forensic Sciences, Nashville, Tennessee, February, 1996.
- Drugs of Abuse Testing. Boehringer Mannheim Corporation 1996 Preferred Partners Meeting and Product Fair. Orlando, Florida, March, 1996.
- Drug Free Workplace Seminar - Lab Procedures. Gainesville Area Chamber of Commerce, Gainesville, Florida, May, 1996.
- Testing for Cocaine in Hair: New Clinical and Forensic Applications. Department of Pathology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida, June, 1996.
- Drug Testing for Drug Courts: Components of Reliability. Gaining Momentum: Drug Courts in Florida. Supreme Court of the State of Florida, Office of the State Courts Administrator, Naples, Florida, June, 1996.
- Rohypnol and Rape Prevention. Rape & Crime Victim Advocate Program, Alachua County Department of Community Services, Gainesville, Florida, July, 1996.
- Medical Examiner Toxicology, Analysis of Unusual Biological Tissues, and Forensic Chemistry. Introduction to Forensic Toxicology. American Association for Clinical Chemistry, Chicago, Illinois, July, 1996.
- High Sensitivity CEDIA Benzodiazepine DAU: New Solutions for the Nineties. Boehringer Mannheim Corporation 1996 Industry Workshop at the AACC Annual Meeting. Chicago, Illinois, July, 1996.
- Forensic Toxicology. 1996 Clinical Chemistry and Toxicology Audioconference Series - Teleconference Network of Texas. Gainesville, Florida, August, 1996.

- Forensic Toxicology Sites on the World Wide Web. Forensic Toxicology and the Internet. Society of Forensic Toxicologists, Denver, Colorado, October, 1996.
- Drug Free Workplace Seminar – Lab Procedures. Gainesville Area Chamber of Commerce, Gainesville, Florida, October, 1996.
- Forensic Science: A Living Science – Amniotic Fluid and Breast Milk. American Academy of Forensic Sciences, New York City, New York, February, 1997.
- Forensic Toxicology: QA/QC Considerations. NFSTC Forensic Toxicology Workshop, Gainesville, Florida, August, 1997.
- Implementation of a PT Program for Hair Testing in Florida. HHS Drug Testing Advisory Board, Scientific Meeting on Drug Testing of Alternative Specimens and Technologies, Arlington, Virginia, September, 1997.
- Signs of Impairment & Physiology and Pharmacology, Breath Test Instructor Course, Institute of Police Technology and Management, University of North Florida, Jacksonville, Florida, January, 1998.
- Cocaine Analyses in Breast Milk and Nails. Seminar. Department of Pharmaceutics and Pharmacodynamics, College of Pharmacy, University of Illinois at Chicago, Chicago, Illinois, March, 1998.
- Hewlett-Packard Seminar on Drug Testing and Forensic Analyses. Wilmington, Rockville, Atlanta, and Tampa, March, 1998.
- Results from the First Round of the State of Florida Hair Proficiency Testing Program. Drug Testing Advisory Board, Division of Workplace Programs, Substance Abuse and Mental Health Services Administration, Bethesda, Maryland, June, 1999.
- Physical Effects of Abuse. The GHB, GBL and 1,4 Butanediol Working Group Meeting. Sponsored by Orphan Medical Group, National Forensic Science Technology Center, St. Petersburg, Florida, July, 1999.
- Case Studies in Forensic Toxicology. Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida, August, 1999.
- Forensic Toxicology. Microbiology and Cell Science Student Organization. University of Florida, Gainesville, Florida, September, 1999.
- Hewlett-Packard Seminar on Drug Testing. Fundamental and Critical Procedures Used in the Analysis of Drugs of Abuse in Urine by GC/MS. Mexico City, Mexico, November, 1999.
- Leading Edge Seminar – The Future of Forensic Medicine at the University of Florida, University of Florida Department of Conferences and Seminars, Division of Continuing Education, Gainesville, Florida, February, 2000.
- Forensic Toxicology of Opiate Alkaloids and Synthetic Analgesics – Metabolism of Opioids. American Academy of Forensic Sciences, Reno, Nevada, February, 2000.
- Post-Mortem Forensic Toxicology (Part 1), Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, March, 2000.
- Drug Testing: An Important Element in Substance Abuse Prevention – Today's Drugs, Beating the Test and Other Myths. American Alliance for Health, Physical Education, Recreation and Dance, Orlando, Florida, March, 2000.
- Contemporary Practice in Clinical Toxicology – Opiates. American Association for Clinical Chemistry, Alexandria, Virginia, June, 2000.

Assessment of Alternative Specimens in Forensic Toxicology. Society of Forensic Toxicologists, Milwaukee, Wisconsin, October, 2000.

Post-Mortem Forensic Toxicology (Part 2), Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, November, 2000.

The Drunk and Drugged Driver: Understanding Toxicology, Advanced DUI Seminar, Florida Prosecuting Attorneys Association, Ocala, Florida, March, 2001.

Effects on the Body, Florida Statewide Conference on Designer Drugs, Florida Department of Law Enforcement, Orlando, Florida, April, 2001.

Club Drugs, Florida Association of Medical Examiners, Daytona Beach, Florida, November, 2001.

Forensic Toxicology, Florida Homicide Investigators Association, Gainesville, Florida, November, 2001.

Chemical Agents, Community Bioterrorism Summit, Shands HealthCare, Gainesville, Florida, November, 2001.

Analytical Toxicology Considerations in Drugs and Driving Cases, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, March, 2002.

Chemical Agents of Terrorists, The Challenge of Bioterrorism, Florida League for Nursing, University of Florida, Gainesville, Florida, April, 2002.

Chemical Agents, Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, August, 2002.

Club Drugs. Microbiology and Cellular Science Student Organization. University of Florida, Gainesville, Florida, September, 2002.

Analytical Toxicology Considerations in Drugs and Driving Cases, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, March, 2003.

Drug and Deaths in Florida, Grand Rounds, Department of Psychiatry, University of Florida College of Medicine, March 2003.

Forensic Pharmacology, Consumer Chemistry (CHM 1083), University of Florida, April 2003.

The Role of the Toxicology Laboratory in the Prosecution of Drugged Driving Cases, International Association for Chemical Testing, Cocoa Beach, Florida, April, 2003.

The Challenge to the Forensic Community. Methadone Associated Mortality: A National Assessment Workshop, Center for Substance Abuse Treatment Substance Abuse and Mental Health Services Administration, Arlington, Virginia, May, 2003.

Methadone Deaths in Florida. Methadone Associated Mortality: A National Assessment Workshop, Center for Substance Abuse Treatment Substance Abuse and Mental Health Services Administration, Arlington, Virginia, May, 2003.

Drug Testing Update, Department of Community Health and Family Medicine. University of Florida College of Medicine, Gainesville, Florida, September, 2003.

Forensic Toxicology of Methadone – Methadone and Death Investigations. Society of Forensic Toxicologists, Portland, Oregon, October, 2003.

Methadone Overdose Deaths. National Association of Drug Diversion Investigators, Fort Lauderdale, Florida, November, 2003.



Pursuing a Career in the Forensic Sciences. Biomedical Research Career Development Seminar, University of Florida Interdisciplinary Program in Biomedical Sciences, Gainesville, Florida, January, 2004.

Methadone-Associated Mortality: Report of a National Assessment – Toxicological Issues, The 6th International Conference on Pain & Chemical Dependency, Brooklyn, New York, February, 2004.

Ephedrine: Drug or Supplement? Ephedrine Related Compounds and the Debate on Their Potential for Contribution to Injury – Analytical Issues of Ephedrine and Related Compounds in Possible Injury Cases. American Academy of Forensic Sciences, Dallas, Texas, February, 2004.

Developing Global Strategies for Identifying, Prosecuting, and Treating Drug-Impaired Drivers – Chemical Sensing of Exhaled Breath, Tampa, Florida, February, 2004.

Ninth Annual Southern Coastal International Conference – Breath, Blood and Urine Testing, Jekyll Island, Georgia, March, 2004.

Club Drugs, Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, April, 2004.

Analytical Toxicology Considerations in Drugs and Driving Cases, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, September, 2004.

Club Drugs, Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, December, 2004.

Forensic Toxicology Reference Laboratory and Public Service, Southeastern Association of Pathology Chairs and Department Administrators, St. Petersburg, Florida, January, 2005.

Evidenced Based Forensic Science: Interpreting Postmortem Toxicology in the Light of Pathologic Findings – Interpreting Postmortem Opioid Measurements. American Academy of Forensic Sciences, New Orleans, Louisiana, February, 2005.

Drugs and Drug Deaths in Florida. University of Florida Committee on Alcohol and Other Drug Education and Policy, Gainesville, Florida, April, 2005.

OTC and Prescription Stimulants, Stimulants Workshop (sponsored by Society of Forensic Toxicologists), Orlando, Florida, April 2005.

Pharmaceutical Abuse, Annual Training for Demand Reduction Program Coordinators, Drug Enforcement Administration, Orlando, Florida, August, 2005.

Update in Forensic Toxicology: Selected Topics in Death Investigation – Case Studies in Analytical & Forensic Toxicology, North American Congress of Clinical Toxicology 2005, American Academy of Clinical Toxicology, September, 2005.

An Epidemic of Drug Deaths in Florida, Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida, September, 2005.

Forensic Toxicology Update – Opiates. Society of Forensic Toxicologists, Nashville, Tennessee, October, 2005.

Interpretation of Toxicological Analysis in the Elderly – Opioids in the Elderly. American Academy of Forensic Sciences, American Academy of Forensic Sciences, Seattle, Washington, February, 2006.

- Pediatric Postmortem Toxicology Session – Toxicological Findings of a Mother and Fetus in a Fatal DUI. American Academy of Forensic Sciences, American Academy of Forensic Sciences, Seattle, Washington, February, 2006.
- Annual Conference on Addictions – An Epidemic of Opioid-Related Deaths in Florida, Florida Society of Addiction Medicine, Lake Mary, FL, March, 2006.
- Methamphetamine: A Deadly Formula – Methamphetamine: Toxicology, Pathology and Treatment, Second Annual Prevention Summit, DISC Village, Inc., Tallahassee, FL, March, 2006
- Analytical Toxicology for Impaired Driving Programs – Laboratory Aspects, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, April, 2006.
- Forensic Toxicology, Ninth Forensic Science Educational Conference (FSEC) (sponsored by the American Academy of Forensic Sciences and Court TV), Florida Gulf Coast University, Fort Myers, Florida, May, 2006.
- CE Committee: How Does Your QA/QC Program Measure Up? – Analytical Toxicology – QA/QC Laboratory Aspects. Society of Forensic Toxicologists, Austin, Texas, October, 2006.
- Alcohol Use Disorders Colloquium – Alcohol and Drugs in Trauma Cases, Shands at the University of Florida and the University of Florida, College of Medicine, Division of Acute Care Surgery, Gainesville, FL, February, 2007.
- DUI and DUI Drugs: State of the Art, Florida Society of Addiction Medicine, Gainesville, FL, March, 2007.
- Analytical Toxicology for Impaired Driving Programs – Laboratory Aspects, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, April, 2007.
- Multidisciplinary Trauma Conference – Alcohol and Drugs in Trauma Cases, Trauma Services Department, Shands at the University of Florida, May, 2007.
- Methadone-Related Deaths in Florida, Methadone Mortality – A Reassessment. U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Washington D.C., July, 2007.
- Clinical and Translational Science Seminar Series, University of Florida, College of Medicine, Department of Epidemiology & Health Policy Research, Addiction – Forensic Medicine, Gainesville, Florida, September, 2007.
- Toxicology Jeopardy – A Practical Approach to DUID Testing – Confirmation - Method Validation, Society of Forensic Toxicologists, Durham, North Carolina, October, 2007.
- Stop Drugged Driving, The John P. McGovern Lecture, Institute for Behavior and Health, Washington D.C., November, 2007.
- The Cocaine Epidemic, Drug Policy Advisory Council, Florida Office of Drug Control, Tallahassee, Florida, November, 2007.
- Pharmacology - Alcohol and Drug Impaired Driving, 2007 DUI Adjudication Lab, Florida Judiciary Education Program, St. Augustine, Florida, December, 2007.
- Toxicology Issues – Analytical Toxicology, CFS Toxicology Symposium, Centre of Forensic Sciences, Toronto, Ontario, January, 2008.
- The Cocaine Epidemic, Drug Overdose Task Force, Florida Office of Drug Control, Tallahassee, Florida, March, 2008.

- Analytical Toxicology for Impaired Driving Programs – Laboratory Aspects, The Indiana University Robert F. Borkenstein Course on the Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, April, 2008.
- Forensic Toxicology, Ninth Forensic Science Educational Conference (FSEC) (sponsored by the American Academy of Forensic Sciences and Court TV), Florida Gulf Coast University, Fort Myers, Florida, May, 2008.
- Drugged Driving, Grand Rounds, Department of Psychiatry, University of Florida College of Medicine, July, 2008.
- Bad Science: The Floyd Landis Case, International Association of Forensic Sciences, New Orleans, Louisiana, July, 2008.
- The "Stimulating" Realm of Sympathomimetic Amines and Tryptamines – OTC Sympathomimetic Amines, Society of Forensic Toxicologists, Phoenix, Arizona, October, 2008.
- Effects of Drugs on Human Performance and Behavior – A Borkenstein Sampler – Analytical Best Practices for DUID Testing, Society of Forensic Toxicologists, Phoenix, Arizona, October, 2008.
- Pharmacology - Alcohol and Drug Impaired Driving, 2009 DUI Adjudication Lab, Florida Judiciary Education Program, St. Augustine, Florida, January, 2009.
- Analytical Toxicology for Impaired Driving Programs – Laboratory Aspects, The Indiana University Robert F. Borkenstein Course on the Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, April, 2009.
- Methadone Mortality Update – Florida's Real-time Methadone Surveillance System, American Association for the Treatment of Opioid Dependence, New York, New York, April, 2009.
- Forensic Toxicology in Animal Casework, Veterinary Forensics Conference, William R. Maples Center for Forensic Medicine, University of Florida, Orlando, Florida, May, 2009.
- Presidential Symposium – Epidemiology of Drug Use, Abuse, Misuse and Death from the 60s to Today, American Psychiatric Association, San Francisco, California, May, 2009.
- Methadone Associated Overdose and Mortality Assessment Meeting - Regional Methadone Data Mortality Report – The State of Florida Experience, Drug Enforcement Administration, Washington, D.C., June, 2009.
- Symposium on Energy Drinks – Where the Science Meets Main Street - Pharmacologic Properties of Common Ingredients, SUNY Youth Sports Institute, New York, New York, June, 2009.
- Toxicology: Current Trends and What's New, Florida Association of Medical Examiners Annual Educational Conference, Orlando, Florida, August, 2009.
- ABFT Certification Preparation Class - Laboratory Practice. Society of Forensic Toxicologists, Oklahoma City, Oklahoma, October, 2009.
- Pharmacology - Alcohol and Drug Impaired Driving, 2009 DUI Adjudication Lab, Florida Judiciary Education Program, Sarasota, Florida, December, 2009.
- Journal of Analytical Toxicology, Navigating the World of Forensic Journals and Forensic Information, American Academy of Forensic Sciences, American Academy of Forensic Sciences, Seattle, Washington, February, 2010.

Keynote Address - A Decade of Deaths in the State of Florida - Prescription Drug Use, Misuse and Abuse, Florida Society of Addiction Medicine, Medical and Scientific Conference on Addictions, Tampa, Florida, March, 2010.

Keynote Address - Propofol Abuse and the Untimely Death of Michael Jackson, Florida Society of Addiction Medicine, Medical and Scientific Conference on Addictions, Tampa, Florida, March, 2010.

Forensically Defensible Drug and Alcohol Testing in DUID: Laboratory Aspects, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, April, 2010.

The Medical Consequences of Opium and Heroin Abuse in Afghanistan, Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida, April, 2010.

Saving the Children of Afghanistan - The Consequences of Opium and Heroin Abuse, International Drug Enforcement Conference, Rio de Janeiro, Brazil, April, 2010.

Forensic Toxicology – Part 1, Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, May, 2010.

Forensic Toxicology – Part 2, Shands Hospital Laboratories Continuing Education Program, Gainesville, Florida, June, 2010.

Forensic Toxicology, Forensic Science Training for Capital Litigators, Bureau of Justice Assistance and the National Clearinghouse for Science, Technology and the Law and the Center for American and International Law, Plano, Texas, July, 2010.

A Decade of Deaths in the State of Florida - Prescription Drug Use, Misuse and Abuse, Palm Beach County Rx for Change Conference, West Palm Beach, Florida, October, 2010.

Interpretation of Opioid Measurements: Antemortem and Postmortem, ACMT Seminars in Forensic Toxicology: Opioids, American College of Medical Toxicology, Philadelphia, Pennsylvania, November, 2010.

Pharmacology - Alcohol and Drug Impaired Driving, 2010 DUI Adjudication Lab, Florida Judiciary Education Program, Clearwater, Florida, December, 2010.

Toxicologic Workup of the Negative Autopsy, The Negative Autopsy, Interim Scientific Program, National Association of Medical Examiners, Chicago, Illinois, February, 2011.

Forensically Defensible Drug and Alcohol Testing in DUID: Laboratory Aspects, The Effects of Drugs on Human Performance and Behavior, Robert F. Borkenstein Center for Studies of Law in Action, Indiana University, Bloomington, Indiana, April, 2011.

Alcohol and Drug Impaired Driving: State of the Art Investigation and Interpretation, Grand Rounds, Department of Psychiatry, University of Florida College of Medicine, May, 2011.

Afghanistan Children Opium Study - Impact on the Drug Testing Industry, Drug and Alcohol Testing Industry Association, Miami, Florida, May, 2011.

Publishing in Journals for Forensic Toxicologists – The Peer Review Process, Society of Forensic Toxicologists, San Francisco, California, September, 2011.

Helping Scientists Speak Directly to the Press – The Scientist Perspective, National Association of Science Writers, Flagstaff, Arizona, October, 2011.

Forensic Toxicology, The Institute for Learning in Retirement, Oak Hammock, Gainesville, Florida, November 2011.

Toxicology of the Drunk Driver, Advanced DUI Seminar, Traffic Safety Resource Prosecutor Program Florida Public Safety Institute, Orlando, Florida, November, 2011.

Forensic Toxicology, Forensic Science Club, Santa Fe College, Gainesville, Florida, November, 2011.

Odor Mortis: What Is It Anyway? (Luncheon), American Academy of Forensic Sciences, Atlanta, Georgia, February, 2012.

Toxicological Case Study – Identifying Toxins in Biological Samples of Drug Users, Trans-Regional Crack Cocaine Symposium, Drug Enforcement Administration Educational Foundation and United States Department of State, Tampa, Florida, March, 2012.

Speaking to the Media, International Veterinary Forensic Sciences Association, Miami, Florida, May, 2012.

SWGTOX Update, Florida Association of Medical Examiners, Clearwater Beach, Florida, July 2012.

Toxicologic Workup of the Negative Autopsy, Florida Association of Medical Examiners, Clearwater Beach, Florida, July, 2012.

Forensically Defensible Drug and Alcohol Testing in DUID: Laboratory Aspects, The Robert F. Borkenstein Course on the Effects of Drugs on Human Performance and Behavior, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, October, 2012.

Recent Advances in Drug Testing, UF & Professionals Resource Network Afternoon of Research on Addiction and Impairment, Gainesville, Florida, February, 2013.

Forensic Toxicology – Postmortem Drug Redistribution, International Veterinary Forensic Sciences Association, Orlando, Florida, May, 2013.

Opioid Related Deaths, Postmortem Interpretive Toxicology, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, June, 2013.

SWGTOX Update, Florida Association of Medical Examiners, Clearwater Beach, Florida, July 2013.

Urine Drug Testing in Pain Management: You’ve Got Questions, We’ve Got Answers. An Interactive Session with a Pain Physician and a Laboratory Scientist, American Academy of Pain Management, Orlando, Florida, September, 2013.

Speaking to the Masses – Effective Communication of Forensic Science, High Profile Cases in Toxicology - Lessons Learned, Society of Forensic Toxicologists, Orlando, Florida, October, 2013.

Forensically Defensible Drug and Alcohol Testing in DUID: Laboratory Aspects, The Robert F. Borkenstein Course on the Effects of Drugs on Human Performance and Behavior, The Center for Forensic Science Research and Education, Sacramento, California, November, 2013.

Alcohol and Drug Testing, Primary Care, Pain Medicine and Addiction Conference, Department of Psychiatry, University of Florida, College of Medicine, Gainesville, Florida, November, 2013.

Forensic Toxicology Laboratory Perspective, Managing the 21st Century Forensic Science Organization, American Academy of Forensic Sciences, Seattle, Washington, February, 2014.

Forensic Toxicology – Scientific Basis, Practice and Research, Department of Chemistry, Florida International University, Miami, Florida, March, 2014.

Forensically Defensible Analytical Practices, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, The University of Glasgow, Scotland, UK, April, 2014.

Drug Testing Update: Discussion with a Clinician and Toxicologist, American Academy of Pain Management, Phoenix, Arizona, September, 2014.

Forensically Defensible Drug and Alcohol Testing in DUID – Laboratory Aspects, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, September, 2014.

ABFT Forensic Toxicology Laboratory Accreditation, Laboratory Accreditation: A Look at Accrediting Bodies and the Top 10 Assessment Findings, Annual Meeting of the Society of Forensic Toxicologists, Grand Rapids, Michigan, October, 2014.

iThenticate, Oxford Journals Day, Cary, North Carolina, October, 2014.

Drugged Driving: A Toxicologist Perspective, AAA Drugged Driving Summit, Tampa, Florida, January, 2015.

Toxicology of Opioid Related Deaths, Postmortem Interpretive Toxicology, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, January, 2015.

Keys to Effective Testimony, Testimony Workshop, Association of Official Racing Chemists, Tampa, Florida, April, 2015.

Toxicology and Drugged Drivers, Prosecuting the Drugged Driver, Florida Traffic Safety Resource Prosecutor Program, Orlando, Florida, April 2015.

Forensically Defensible Drug and Alcohol Testing in DUID - Laboratory Aspects, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, Tempe, Arizona, September, 2015.

New Developments in PDMPs: South Carolina, Wisconsin and Florida, National Rx Drug Abuse & Heroin Summit, Atlanta, Georgia, March, 2016.

The Epidemic of Fentanyl and Fentanyl Analog Deaths in Florida, International Association for Chemical Testing, Orlando, Florida, April, 2016.

Drugged Driving: A Toxicologist Perspective, AAA Drugged Driving Summit, Portland, Maine, May, 2015.

Toxicology of Opioid Related Deaths, Postmortem Interpretive Toxicology, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, June, 2016.

MEC Drugs Identified in Deceased Persons, Statewide Drug Policy Advisory Council Meeting, Florida Department of Health, Tallahassee, Florida, August, 2016.

Forensically Defensible Drug and Alcohol Testing in DUID - Laboratory Aspects, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, September, 2016.

Forensic Toxicology, Department of Physiological Sciences, University of Florida College of Veterinary Medicine, Gainesville, Florida, October, 2016.

Post-Mortem Forensic Toxicology Testing, Overdose Subcommittee, Council of State and Territorial Epidemiologists, [webinar], December, 2016.

ABFT Laboratory Accreditation, Quality Infrastructure Committee, Organization of Scientific Area Committees for Forensic Science, [webinar], January, 2017.

Toxicology, Enhanced State Opioid Overdose Surveillance (ESOOS) Awardee Meeting, Centers for Disease Control and Prevention, Atlanta, Georgia, May, 2017.

- Toxicology 101 – “Decoding” Source Document Information, National Violent Death Reporting System (NVDRS) Reverse Site Visit, Centers for Disease Control and Prevention, New Orleans, Louisiana, May, 2017.
- Forensically Defensible Drug and Alcohol Testing in DUID - Laboratory Aspects, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, Austin, Texas, September, 2017.
- The Cold Truth of FROST in Florida, International Forum for Drug and Alcohol Testing, Clearwater Beach, Florida, October, 2017.
- Drug Overdose Deaths, State of Florida House Subcommittee, Tallahassee, Florida, November, 2017.
- Surveillance of Drug Overdose Deaths in the State of Florida, International Society for Disease Surveillance, Orlando, Florida, February, 2018.
- The National Opioid Overdose Epidemic: It’s Not Just Opioids, National Rx Drug Abuse & Heroin Summit, Atlanta, Georgia, April, 2018.
- The National Opioid Overdose Epidemic, Northeastern University, Boston, Massachusetts, April, 2018.
- Decades of Drug Surveillance – Monitoring Prescription and Illicit Drug Use, Misuse and Abuse, Northeastern University, Boston, Massachusetts, April, 2018.
- Toxicology 101, National Violent Death Reporting System (NVDRS) Reverse Site Visit, Centers for Disease Control and Prevention, New Orleans, Louisiana, May, 2018.
- Understanding Toxicology Data and Key Indicators, Enhanced State Opioid Overdose Surveillance (ESOOS) Awardee Meeting, Centers for Disease Control and Prevention Atlanta, Georgia, May, 2018.
- Strategies and Partnerships to Improve Data Quality and Usefulness, Data-In-Action/Opioid Epidemic Response Plenary, National Association for Public Health Statistics and Information Systems, Miami, Florida, June, 2018.
- Florida Case Study, PDMP and Medical Examiner/Coroner Meeting, Bureau of Justice Assistance, U.S. Department of Justice, Washington, D.C., August, 2018.
- The Opioid Crisis – The Epidemic of Overdoses and Deaths, Opioids and Heroin: A New Look at Some Old (and Not So Old) Drugs. DEA Lecture Series, Drug Enforcement Administration, Arlington, Virginia, September, 2018.
- Forensically Defensible Drug and Alcohol Testing in DUID – Laboratory Aspects, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, Philadelphia, Pennsylvania, September, 2018.
- Ethics of Publication, Effective Communication Skills for Successful Forensic Toxicology Practice, Federal, Society of Forensic Toxicologists, Minneapolis, Minnesota, October, 2018.
- Public Health Perspective – Federal, How to Navigate your Way Through the Epidemic of Emerging Drugs. Society of Forensic Toxicologists, Minneapolis, Minnesota, October, 2018.
- Forensically Defensible Drug and Alcohol Testing Laboratory Practices, California Association of Toxicologists, Bakersfield, California, November, 2018.
- Plagiarism, Oxford Journals Day, Cary, North Carolina, November, 2018.
- Toxicology 101 / 201, Enhanced State Opioid Overdose Surveillance (ESOOS) Awardee Meeting, Centers for Disease Control and Prevention Atlanta, Georgia, January, 2019.

- Opioid Epidemic: Pathologists Responding to the Public Health Crisis, Southeastern Association of Pathology Chairs and Administrators Regional Conference, Amelia Island, Florida, February, 2019.
- Scientific Evidence in the Casey Anthony Trial – Forensic Toxicology and Chemistry Aspects, A Decade Later: The State of Florida v. Casey Marie Anthony Revisited – Truth? Justice? Both? Neither?, American Academy of Forensic Sciences, Baltimore, Maryland, February, 2019.
- Report of the Centers for Disease Control and Prevention Forensic Science Liaison, The American Academy of Forensic Sciences Responds to the Opioid Crisis, American Academy of Forensic Sciences, Baltimore, Maryland, February, 2019.
- State Level Perspective, A Coordinated Federal Response to the Illicit Opioid Epidemic, Rx Drug Summit, Atlanta, Georgia, April, 2019.
- Drug Overdose Deaths – Toxicology and Key Indicators. National Violent Death Reporting System (NVDRS) Reverse Site Visit, Centers for Disease Control and Prevention, Denver, Colorado, May, 2019.
- Opioid-Involved Fatal Overdoses and the Role of Higher Dosage Strength Opioid Products: What We Do and Don't Know. Joint meeting of the U.S. Food and Drug Administration Drug Safety Committee and Risk Management Advisory and Anesthetic and Analgesic Drug Products Advisory Committee, Silver Spring, Maryland, June, 2019.
- Toxicologic Workup of the Negative Autopsy, Florida Association of Medical Examiners, Manalapan, Florida, July, 2019.
- The National Opioid Overdose Epidemic – Monitoring Prescription and Illicit Drug Use, Misuse and Abuse, Division of Sponsored Programs, University of Florida | Office of Research, Gainesville, Florida, July, 2019.
- Forensically Defensible Drug and Alcohol Testing in DUID – Laboratory Aspects, The Robert F. Borkenstein Course on Drugs and Alcohol, The Center for Forensic Science Research and Education, Long Beach, California, September, 2019.
- Publishing & Reviewing, Young Forensic Toxicologists YFT Symposium and Professional Development Fair, Society of Forensic Toxicologists, San Antonio, Texas, October, 2019.
- Emerging Drug Threats: Looking Beyond Fentanyl, Emerging Transnational Criminal Threats, CENTRA Technology, Inc., Arlington, Virginia, October, 2019.
- Forensic Toxicology Interpretation Guidance for NVDRS and SUDORS (webinar), National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, November, 2019.
- How to Navigate Your Way Through the Epidemic of Emerging Drugs, Florida Adult Drug Court Training Conference, Sarasota, Florida, November, 2019.
- Emerging Drug Threats - Toxicology and Key Indicators, Louisiana Coroner's Association Annual Meeting, Lafayette, Louisiana, February, 2020.
- Emerging Drug Threats – Toxicology and Key Indicators, American Pharmacists Association Poison Prevention Lecture, University of Florida College of Pharmacy, September, 2020.
- Forensic Toxicology, Veterinary Forensic Pathology (VEM5424), University of Florida College of Veterinary Medicine, September, 2020.
- Surveillance of Novel Psychoactive Substances, Surveillance Committee, United Way of Broward County, Commission on Behavioral Health and Drug Prevention, January, 2021.



Emerging Drug Threats – Cannabinoids, Cathinones and Opioids, January, 2021  
Forensic Toxicology, The George Washington University Law School, February, 2021.  
Peer Review – What You Really Need to Know, Learn-Discover-Lead Seminar, UF CTSI and UF Health, April 2021.  
Plagiarism in Scientific Publications, Ethical Moment, Department of Pathology, Immunology and Laboratory Medicine, June, 2021.  
Death Investigation: The Intersection of Pathology & Toxicology, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, June, 2021.  
Toxicology Laboratory Overview, NAME/CDC/NNPHI Symposium, The Center for Forensic Science Research and Education, October, 2021.  
Emerging Drug Threats – Cannabinoids, Cathinones and Opioids University of Miami Miller School of Medicine, Department of Pathology. November, 2021.  
Emerging Drug Threats – Cannabinoids, Cathinones and Opioids. APhA-ASP, University of Florida College of Pharmacy, November, 2021.  
Toxicology Laboratory Overview, NAME/CDC/NNPHI Symposium, The Center for Forensic Science Research and Education, April, 2022.  
New Psychoactive Substances (NPS). National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, May, 2022.  
Emerging Drug Threats – Morbidity and Mortality. Regional Drug Epidemiology Network, Jacksonville, FL, May, 2022.  
The Nexus of Public Health and Public Safety in Combating Fentanyl. National Homeland Security Consortium, San Francisco, California, December, 2022.  
Xylazine Listening Session – State of Florida, Office of National Drug Control Policy, December, 2022.  
SUDORS Workgroup Toxicology Update. National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, February, 2023.  
Reactor Panel: Pharmacology of Opioids and Overdose Management Products, Understanding Fatal Overdoses to Inform Product Development and Public Health Interventions to Manage Overdose, Reagan-Udall Foundation for the FDA, March 2023.  
Differences in Laboratory Approaches to Medicolegal Death Investigation Toxicology – Know What your Laboratory is Testing For. The Intersection of Forensic Toxicology and Forensic Pathology Relating to Emerging Topics in Drug Death Certification, Center for Forensic Science Research & Education, May 2023.  
Toxicology Refresher, Tennessee Department of Health, July 2023  
The Value of Different Pieces of Toxicology Data for Testimony. 2023 American College of Medical Toxicology Seminar in Forensic Toxicology Cannabis and the Expanding World of Cannabinoids, December 2023.  
Toxicology Practice, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, March, 2024.

### **NATIONAL MEDIA APPEARANCES**

In Search of Jesse James, A&E and History Channel, 1996  
Party Drug, Fatal Drug, 48 Hours, CBS News, 2001

PMA, Channel One News, 2001  
 Addicted: An OxyContin Tragedy, 48 Hours, CBS News, 2002  
 Ecstasy – Nothing to Rave About, Florida’s News Channel, 2002  
 Hooked On Club Drugs, VH1, 2002  
 State of Florida v. Rachel Sercey Trial, Court TV, 2003  
 State of Florida v. Laura Roberts, Inside Edition, 2004  
 Secrets from the Grave, 48 Hours, CBS News, 2005  
 Caffeine in Decaf Coffee, Today Show, MSNBC, 2006  
 Caffeine in Energy Drinks, National Public Radio, 2007  
 Death of Daniel Smith, CNN, 2007  
 Death of Daniel Smith, MSNBC, 2007  
 Death of Anna Nicole Smith, Fox News and Court TV, 2007  
 Prescription Drug Abuse (Heath Ledger), Good Morning America, ABC News, 2008  
 Mark Jensen Trial, TruTV Courtside, 2008  
 Michael Jackson: The Man and His Music, ABC News 20/20, June 2009  
 Death of Michael Jackson, Good Morning America, ABC, July 2009  
 Michael Jackson: The Final Hours, Dateline NBC, July 2009  
 Death of Michael Jackson, Good Morning America, ABC News, August 2009  
 Needle in a Haystack, Forensic Files, truTV, September 2009  
 The Secret Life of Michael Jackson, Dateline NBC, February 2010  
 Skyrocketing Heroin, Opium Use Ensnaring Afghan Children, ABC World News, April 2010  
 Skyrocketing Heroin, Opium Use Ensnaring Afghan Children, ABC Nightline, April 2010  
 Alcoholic Energy Drinks, CBS Evening News, October 2010  
 Dr. G: Medical Examiner – Inside the Caylee Anthony Case, Discovery Health Channel, January 2012  
 Aeroshot, ABC World News, February 2012  
 The Death of Brittany Murphy, CNN, November 2013  
 Josh Brent Trial, Good Morning America, ABC News, January 2014  
 Darren Sharper, Good Morning America, ABC News, March 2015  
 Kim Jong-Nam, CNN, February 2017

## **PUBLICATIONS**

### ***Books***

1. Liu RH and Goldberger BA (eds). Handbook of Workplace Drug Testing. AACC Press, 1995 (380 pages) [second printing 1996 – 396 pages; Chinese translation 1997 – 448 pages].
2. Jenkins AJ and Goldberger BA (eds). On-Site Drug Testing. Humana Press, Inc., 2002 (276 pages).
3. Roper-Miller JD and Goldberger BA (eds). Handbook of Workplace Drug Testing, 2nd Edition. AACC Press, 2008 (485 pages).

4. Caplan YH and Goldberger BA (eds). *Garriott's Medicolegal Aspects of Alcohol*, 6th Edition, Lawyers & Judges Publishing Company, 2015 (702 pages).
5. Karch SB and Goldberger BA (eds.). *Karch's Drug Abuse Handbook*, CRC Press, 2023, 650 pages.

### **Chapters**

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