

**ANDREW P. MASON, Ph.D., DABFT, DABCC-TC  
FORENSIC TOXICOLOGIST**

**ToxicoLogics, Ltd.**

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**PROFESSIONAL EXPERIENCE:**

- 02/99 - Present**      **Adjunct Professor, Department of Chemistry, Appalachian State University**  
The A. R. Smith Department of Chemistry, Appalachian State University  
P.O. Box 32036, Boone, NC 28608-2036
- 07/98 – Present**      **President - ToxicoLogics, Ltd., & Forensic Toxicologist**  
ToxicoLogics, Ltd., P.O. Box 614, Boone, NC 28607  
ToxicoLogics, Ltd., Specializing In Forensic Toxicology Services
- 07/95 - 06/98**      **Forensic Toxicologist – Expert Services Group**  
**National Medical Services, Inc.**  
3701 Welsh Rd., Willow Grove, PA.
- 03/93 - 06/98**      **Director of Forensic Toxicology - National Medical Services**  
3701 Welsh Rd., Willow Grove, PA.
- 09/93 - 08/94**      **Scientific Director, Forensic Urine Drug Testing Laboratory (CAP)**  
**National Medical Services**, 2300 Stratford Avenue, Willow Grove, PA.
- 08/92 - 03/93**      **Forensic Toxicologist - National Medical Services**  
2300 Stratford Avenue, Willow Grove, PA.  
NMS is a private independent professional full-service laboratory, providing certified and licensed forensic toxicological and criminalistics analysis of evidence, body fluids and tissues for drugs and intoxicants, supported by expert opinion reporting and expert testimony.
- 07/89 - 07/92**      **Chief Toxicologist - Office of the Chief Medical Examiner**  
North Carolina Division of Postmortem Medicolegal Examination, Department of Environment, Health, and Natural Resources, Chapel Hill, NC.
- 08/88 - 07/92**      **Clinical Assistant Professor - University of North Carolina**  
Department of Pathology, School of Medicine, Chapel Hill, NC.
- 02/88 - 06/89**      **Deputy Chief Toxicologist - Office of the Chief Medical Examiner**  
North Carolina Division of Health Services, Department of Human Resources, Chapel Hill, NC, (Analytical Chemist II).

- 09/87 - 01/88**            **Forensic Toxicologist - Office of the Chief Medical Examiner**  
North Carolina Division of Health Services, Department of Human Resources, Chapel Hill, NC.
- 01/85 - 08/87**            **Postdoctoral Fellow - University of North Carolina**  
Department of Pathology, School of Medicine, Chapel Hill, NC. Development and Characterization of Monoclonal Antibodies to Conformer Dependent Epitopes on Immunoglobulins, and Their Use in Homogenous Immunoassay Technologies, under the direction of Howard M. Reisner, Ph.D.
- 01/81 - 12/84**            **Graduate Research Assistant - University of North Carolina**  
School of Pharmacy, Division of Medicinal Chemistry and Natural Products, Chapel Hill, NC.
- 08/78 - 12/80**            **Graduate Teaching Assistant - University of North Carolina**  
School of Pharmacy, Division of Medicinal Chemistry and Natural Products, Chapel Hill, NC.
- 05/77 - 08/78**            **Research Scientist I - Norwich Eaton Pharmaceuticals, Inc.**  
Analytical Methods Development Section, Pharmaceutical Research and Development Division, Norwich, NY. Development of control and stability assays for drugs in pharmaceutical formulations.
- 02/77 - 04/77**            **Research Scientist I - Norwich Eaton Pharmaceuticals, Inc.**  
Tissue Residue Group, Pharmacometrics Division, Norwich, NY. Development of analytical methods for anti-microbial agents and their metabolites in tissues and feeds.

**EDUCATION:**

- 08/78 - 05/86**            **Doctor of Philosophy - University of North Carolina**  
Division of Medicinal Chemistry and Natural Products, School of Pharmacy, Chapel Hill, NC. Dissertation Title: Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol, under the direction of Arthur J. McBay, Ph.D.
- 08/73 - 12/76**            **Bachelor of Science, Chemistry - State University of New York**  
Binghamton, NY.
- 08/72 - 05/73**            **Mansfield State College, Mansfield, PA.**

**LICENSURE AND CERTIFICATIONS:**

- 1998 - Present**            **Diplomate of the American Board of Clinical Chemistry (DABCC-TC)**  
Certification in Toxicological Chemistry. American Board of Clinical Chemistry, 2101 L Street, NW, Suite 202, Washington, DC, 20037-1526.
- 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.

- 1994 - Present**            **Diplomate of the American Board of Forensic Toxicology (DABFT)**  
American Board of Forensic Toxicology, Inc., c/o, the Forensic Sciences Foundation, Inc., P.O. Box 669, Colorado Springs, CO, 80901-0669. (Renewed 2009-2014).
- 1993 - Present**            **Certificate of Qualification, Laboratory Director**  
New York State Department of Health, Certified in Forensic Toxicology, Therapeutic Substance Monitoring/Quantitative Toxicology, and Clinical Toxicology/Drug Analysis - Qualitative (1993 – Present) and Certified in Blood Lead and Erythrocyte Protoporphyrin (1997 – 2005).
- 1992 - 1994**                **Certificate of Qualification, Laboratory Director**  
Ohio Department of Health, Alcohol Testing Approval and Permit Program, Certified in ethyl alcohol analysis by gas chromatography, (10/92 - 10/94).

**HONORS:**

Rho Chi Pharmaceutical Honor Society, 1982.

New York State Regents Scholarship, 1972.

**PROFESSIONAL ORGANIZATIONS:**

Full Member, Society of Forensic Toxicologists (SOFT), 1988 - Present.  
SOFT Membership Committee, 01/94 - 01/97.

Fellow, American Academy of Forensic Sciences, 1997 - Present.  
Full Member, American Academy of Forensic Sciences, 1993.  
Provisional member, American Academy of Forensic Sciences, 1989.

Member, American Association for Clinical Chemistry, 1992 - Present.  
Member, Therapeutic Drug Monitoring and Clinical Toxicology Division, American Association for Clinical Chemistry, 1993 - Present.

Full Member, The International Association of Forensic Toxicologists, 1993 - Present

**SPECIAL TRAINING:**

Particle Concentration Fluorescence Immunoassay Methods, Pandex Division, Baxter Healthcare Corp., Mundelein, IL, 11/04/86 -11/09/86.

Quadrupole Mass Spectrometric Techniques: Theory, Operation, Maintenance, and Applications, Extrel Corp., Pittsburgh, PA, 10/05/87 - 10/09/87.

Supervisory Skills Training Program, State Personnel Development Center, Office of State Personnel, North Carolina Department of Human Resources, Raleigh, NC, 07/08 - 12/88.

“Responsible Alcohol Service/Seller Program,” North Carolina Alcohol Beverage Control Commission (NC-ABCC), Boone, NC, 01/26/07.

**OTHER ACTIVITIES:**

Continuing Education Program Committee Coordinator, National Medical Services, Inc., 2300 Stratford Ave., Willow Grove PA, 1993 - 1995.

Guest Reviewer, Journal of Analytical Toxicology Annual Special Issue, for the Annual Meeting of the Society of Forensic Toxicologists, 4<sup>th</sup> Annual Special Issue, (Vol. 18, No. 6., Oct. 1994), 5<sup>th</sup> Annual Special Issue, (Vol. 19, No. 6, Oct. 1995), 8<sup>th</sup> Annual Special Issue, (Vol. 22, No. 6, Oct. 1998), 9<sup>th</sup> Annual Special Issue, (Vol. 23, No. 6, Oct. 1999), 14<sup>th</sup> Annual Special Issue, (Vol. 28, No. 6, Oct. 2004).

Laboratory Inspector, College of American Pathology (CAP), Forensic Urine Drug Testing Laboratory Certification Program, 1994 - 1999.

Member, Program Committee, AAFS Toxicology Section, 2000 Annual Meeting, Reno NV.

Testimony: Since September 1993, Testimony At Trial Or In Deposition In Over 100 Cases, In At Least 17 States, In Federal, State, District, Local, And Administrative Courts, For Prosecution, Plaintiff, And Defense.

Instruction: Chemistry 3530, Forensic Chemistry and Toxicology, Chemistry Department, Appalachian State University, Boone, NC. Authored and presented advanced level course for undergraduate students in forensic chemistry and forensic toxicology. Presented spring semester, 2001, 2003.

Special Consultant, "OxyContin Abuse in the Carolinas," The Charlotte Observer, Charlotte, NC, July 7-10, 2002.

Moderator, Scientific Sessions, SOFT Annual Meeting, Detroit, MI, 10/2002, AAFS Annual Meeting, Chicago, IL, 2/2003.

Speaker: Instructional Video; "What is Chemistry?," A.C. Smith Department of Chemistry, produced by the Learning Assistance Program, Appalachian State University, Boone, NC, 07/2003, viewable at <http://www.chemistry.appstate.edu/>.

Editorial Staff: ToxTalk: The official publication of the Society of Forensic Toxicologists, Inc., Cave Creek, AZ, 03/2004 - 12/2005.

Drug Endangered Child (DEC) Program Advisory Board, Watauga County Dept. of Social Services Child Protective Services Program, Watauga County, Boone, NC, 2003-Present).

Methamphetamine Home Laboratory Workgroup, NC Division of Social Services, NC Dept. of Health and Human Services, Raleigh, NC, 2004.

Workshop Coordinator and Moderator; FBI Laboratory Symposium on Forensic Toxicology, Session 1C, "The Toxicological Hazards of Clandestine Methamphetamine Synthesis," Washington, DC, 08/29/04.

Committee Chair, SOFT, First Annual SOFT Student Enrichment Program, Society of Forensic Toxicologists (SOFT) Annual Meeting, Raleigh-Durham, NC, 10/15/2007.

**PUBLICATIONS:**

1. McBay AJ, Mason AP, "Drugs Found in 600 Single-Vehicle Operators Killed in North Carolina in 1978-1982," Bull Int Assoc Forensic Toxicol, 16/3: 19-21 (1982).
2. Mason AP, Perez-Reyes M, McBay AJ, Foltz RL, "Cannabinoids in Plasma After Passive Inhalation of Marijuana Smoke," JAMA, 249/4: 475-476 (1983), Letter.
3. Perez-Reyes M, Di Guiseppi S, Mason AP, Davis KH, "Passive Inhalation of Marijuana Smoke and Urinary Excretion of Cannabinoids," Clin Pharmacol Ther, 34/1: 36-41 (1983).
4. Mason, AP, Perez-Reyes M, McBay AJ, Foltz RL, "Cannabinoid Concentrations in Plasma After Passive Inhalation of Marijuana Smoke," J Anal Toxicol, 7/4: 172-174 (1983).
5. Mason AP, McBay AJ, "Ethanol, Marijuana, and Other Drug Use in 600 Drivers Killed in Single-Vehicle Crashes in North Carolina, 1978-1981," J Forensic Sci, 29/4: 987-1026 (1984).
6. Mason AP, McBay AJ, "Cannabis: Pharmacology and Interpretation of Effects," J Forensic Sci, 30/3: 615-631 (1985).
7. McBay AJ, Mason AP, "Marijuana and Driving: What is the Significance of Cannabinoid Concentrations?," in Alcohol Drugs and Traffic Safety, Proceedings of the Ninth International Conference on Alcohol, Drugs and Traffic Safety, San Juan, Puerto Rico, 1983, Kaye S, Meier GW, Eds., U.S. Department of Transportation, National Highway Traffic Safety Administration, U.S. Govt. Printing Off., DOT-HS-806-814, (1985), pp. 949-954.
8. Mason AP, "Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol," Ph.D. Dissertation, University of North Carolina, Chapel Hill, NC, 1986, 243 pp.
9. Mason AP, Reisner HM, McBay AJ, de Serres M, "Development of a PCFIA Method for THC in Blood and Plasma," in Proceedings of the 1987 Pandex Symposium, Promises and Limitations of Particle Concentration Fluorescence Immunoassay Strategies, (Lincolnshire, IL, 11/7/87), TP&T Publications, Chicago, IL, 1988.
10. McBay AJ, Mason AP, "Forensic Science Identification of Unknowns by Gas Chromatography Mass Spectrometry," J Forensic Sci: 34/6, 1471-1476 (1989).
11. Mason, AP, "Case Notes: Morphine Poisoning or "Take the Money and Run," Tox Talk, Society of Forensic Toxicologists, Inc., Vol. 18, No. 3, September 1994, pp. 7.
12. Selavka CM, Mason AP, Riker CD, Crookham S, "Determination Of Fentanyl In Hair: The Case of the Crooked Criminalist," J Forensic Sci, 40/4: 681-685 (1995).
13. Mason AP, Selavka CM, "GC/MS Detection of a Single Exposure to Fentanyl in Hair?," Tox Talk, Society of Forensic Toxicologists, Inc., Vol. 19, No. 1, March 1995, p. 3.
14. Mason, AP, "Diphenhydramine related fatalities in infants and young children," ToxTalk, Society of Forensic Toxicologists, Inc. Vol. 29, No. 4, Fourth Qtr., 2005, pp. 12-13.

**PRESENTATIONS AND ABSTRACTS:**

1. Mason AP, Perez-Reyes M, McBay AJ, Foltz RL. "Cannabinoids in Plasma After Passive Inhalation of Marijuana Smoke," Cannabinoids '82', Satellite Meeting, American Society of Pharmacology and Experimental Therapeutics, Louisville, KY, 8/82.
2. McBay AJ, Mason AP. "Ethanol, Marijuana, and Other Drug Use in 600 Drivers Killed in Single-Vehicle Crashes in North Carolina, 1978-1981," Cannabinoids '82', Satellite Meeting, American Society of Pharmacology and Experimental Therapeutics, Louisville, KY, 8/82.
3. Mason AP, Perez-Reyes M, McBay AJ, Foltz RL. "Cannabinoids in Plasma After Passive Inhalation of Marijuana Smoke," Annual Meeting, Society of Forensic Toxicologists, Roslyn, VA, 10/82.
4. Mason AP, McBay AJ, Reisner HM. "Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol," Environmental Diagnostics, Inc., Burlington, NC, 10/3/86.
5. Mason AP, McBay AJ, Reisner HM. "Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol," Minority Access to Research Careers (MARC) Seminar, Department of Biology, Pembroke State University, Pembroke, NC, 10/7/86, Invited Presentation.
6. Mason AP, McBay AJ, Reisner HM. "Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol," Research Triangle Institute, Research Triangle Park, NC, 10/28/86.
7. Mason AP, McBay AJ, Reisner HM. "Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol," Genetic Diagnostics, Inc., Great Neck, NY, 11/10/86.
8. Mason AP, McBay AJ, Reisner HM. "Development of Fluoroimmunoassay Methods for Delta-9-Tetrahydrocannabinol," St. Andrews Presbyterian College, Laurinburg, NC, 3/17/87, Invited Presentation.
9. Mason AP, Reisner HM. "Immunoassay Technology: Conformer Specific Monoclonal Antibodies to IgG, Their Use in Homogenous Immunoassays," Monoclonal Lymphocyte Technology Center Progress Report, Governor's Inn, Research Triangle Park, NC, 9/17/87.
10. Mason AP, Reisner HM, McBay AJ, de Serres M. "Development of a PCFIA Method for THC in Blood and Plasma." In Proceedings of the 1987 Pandex Symposium, Promises and Limitations of Particle Concentration Fluorescence Immunoassay Strategies, (Lincolnshire, IL, 11/7/87), TP&T Publications, Chicago, IL, 1988, Invited Presentation.
11. Mason AP, "Forensic Toxicology," Lecture for Pathology 204, School of Medicine, University of North Carolina, Chapel Hill, NC, 10/12/88.
12. Mason AP, McBay AJ, "Delta-9-THC Fluoroligand: Synthesis and Properties of a Ligand for Fluoroimmunoassay of Delta-9-THC in Plasma and Blood," Annual Meeting, Society of Forensic Toxicologists, Philadelphia, PA 10/29/88.
13. Mason AP. "Pharmacology of Cocaine," Medicolegal Seminar, Office of the Chief Medical Examiner Chapel Hill, NC, 12/3/88.
14. Mason AP, McBay AJ. "Fluoroimmunoassay of Delta-9-THC," Annual Meeting, American Academy of Forensic Sciences, Las Vegas, NV, 1/16/89.

15. Mason AP. "Forensic Toxicology," Forensic Pathology Meeting, Duke University Medical Center, Durham, NC, 6/13/89.
16. Mason AP, "Forensic Toxicology," Lecture for Pathology 204, School of Medicine, University of North Carolina, Chapel Hill, NC, 10/30/89.
17. Mason AP. "Forensic Toxicology," Forensic Pathology Meeting, Duke University Medical Center, Durham, NC, 11/14/89.
18. Mason AP. "Forensic Toxicology," Lecture for Forensic Medicine (DENT 1870), School of Dentistry, University of North Carolina, Chapel Hill, NC, 3/23/90.
19. Mason AP. "Death Investigation - Forensic Toxicology," Investigative Techniques in the Forensic Sciences, Appalachian State University, Boone, NC, 9/18/90, Invited Presentation.
20. Mason AP, "Forensic Toxicology," Lecture for Pathology 204, School of Medicine, University of North Carolina, Chapel Hill, NC, 10/23/90.
21. Mason AP. "Forensic Toxicology," Defense Investigators Training Conference, Institute of Government, University of North Carolina, Chapel Hill, NC, 3/14/91, Invited Presentation.
22. Mason AP. "Acute Ethanol Poisoning," Andrea Hunter Annual Memorial Lecture, Department of Pharmacology, School of Medicine, East Carolina School of Medicine, Greenville, NC, 3/27/91, Invited Presentation.
23. Mason AP. "Cocaine Related Fatalities in North Carolina 1989-1990," Department of Pharmacology, School of Medicine, East Carolina School of Medicine, Greenville, NC, 3/27/91, Invited Presentation.
24. Mason AP. "Forensic Toxicology," Lecture for Forensic Medicine (DENT 1870), School of Dentistry, University of North Carolina, Chapel Hill, NC, 4/12/91.
25. Mason AP. "Blood Ethanol Concentrations in Motor Vehicle Fatalities in North Carolina," Fall State Meeting, Mothers Against Drunk Driving (MADD), Charlotte, NC, 9/14/91, Invited Presentation.
26. Mason AP. "Pediatric Forensic Toxicology," in Child Abuse: The Crime Scene, Western North Carolina Regional Child Abuse Center, Asheville, NC, 10/16/91, Invited Presentation.
27. Mason AP, "Forensic Toxicology," Lecture for Pathology 204, School of Medicine, University of North Carolina, Chapel Hill, NC, 11/8/91.
28. Mason AP. "Drunken Driving Awareness," Keynote Speech, Red Ribbon Kickoff Campaign, Mothers Against Drunk Driving (MADD), Durham, NC, 11/22/91, Invited Presentation.
29. Mason AP. "Fatal Acute Poisoning in North Carolina," Department of Pathology, School of Medicine, University of North Carolina, Chapel Hill, NC, 1/23/92.
30. Butts JD, Mason AP. "Arsenic Still Slays Them Down in the South (II)," Annual Meeting, American Academy of Forensic Sciences, New Orleans, LA, 2/18/92.
31. Mason AP. "Forensic Toxicology," Lecture for Forensic Medicine (DENT 1870), School of Dentistry, University of North Carolina, Chapel Hill, NC, 4/3/92.

32. Mason AP. "Fluoroimmunoassay for Delta-9-THC," National Medical Services, Inc., Willow Grove, PA, 4/23/92.
33. Mason AP. "Forensic Toxicology: North Carolina Poisoning Fatalities," Medicolegal Seminar, Office of the Chief Medical Examiner, Chapel Hill, NC, 5/30/92.
34. Mason AP. "Postmortem Forensic Toxicology Practice at National Medical Services," Death Investigators Workshop, National Medical Services, Inc., Willow Grove, PA, 3/4/93.
35. Mason, AP. "Basic Laboratory Chemistry and Calculations," National Medical Services Continuing Education Program Presentation, National Medical Services, Inc., Willow Grove, PA, 5/18/93.
36. Mason, AP. "Basic Laboratory Chemistry and Calculations," National Medical Services Continuing Education Program Presentation, National Medical Services, Inc., Willow Grove, PA, 5/20/93.
37. Selavka CM, Riker CD, Klinger R, and Mason, AP. "Discussion of Forensic Hair Testing Casework Results and Hair Rinsing Procedures," Workshop on Analysis of Hair for Drugs of Abuse, National Institute of Standards and Technology, Gaithersburg, MD, 5/21/93.
38. Mason, AP. "Basic Laboratory Chemistry and Calculations," National Medical Services Continuing Education Program Presentation, National Medical Services, Inc., Willow Grove, PA, 8/09/93.
39. Mason AP, Selavka CM, Rieders F, Oertli E and Castorena J. "Marijuana Tea, Toxicological Fact or Fiction?," Annual Meeting, Society of Forensic Toxicologists, Phoenix, AZ, 10/14/93.
40. Mason AP, Selavka CM, Rieders F, Oertli E and Castorena J. "Marijuana Tea, Toxicological Fact or Fiction?," NMS Seminar Presentation, National Medical Services, Inc., Willow Grove, PA, 10/27/93.
41. Mason, AP. "Basic Laboratory Chemistry and Calculations," National Medical Services Continuing Education Program Presentation, National Medical Services, Inc., Willow Grove, PA, 01/18/94.
42. Mason, AP, "Forensic Hair Testing for Drugs: Possibilities and Pitfalls," Monthly Meeting, Lower Bucks Co./Philadelphia Claims Investigators Association, Willow Grove, PA, 9/21/94.
43. Mason, AP, "Forensic Hair Testing for Drugs: Possibilities and Pitfalls," Monthly Meeting, South Jersey Claims Investigators Association, Pennsauken, NJ, 11/22/94.
44. Mason, AP, "Forensic Hair Testing for Drugs: Possibilities and Pitfalls," Monthly Meeting, Delaware Claims Investigators Association, Wilmington, DE, 2/7/95.
45. Mason, AP, "Forensic Hair Drug Testing as an Investigative Tool," Monthly Meeting, American Society for Industrial Security, Delaware Section, Wilmington, DE, 3/16/95.
46. Mason, AP, "Forensic Hair Drug Testing for Attorneys," in Forensic Science for Attorneys: A Brief Introduction, A National Medical Services Breakfast Seminar, Philadelphia, PA, 4/21/95.
47. Selavka CM, Freed JW, Mason AP, "Marijuana - And You Thought Smoking Was The Problem!," Annual Meeting, Mid-Atlantic Association of Forensic Scientists (MAAFS), Fairfax VA, 5/11/95.
48. Selavka CM, Freed JW, Mason AP, "Marijuana at the Criminalistics/Toxicology Interface," 3rd Pan-American Chemical Conference, 3rd International Energy and Environmental Sciences Conference, 2nd Caribbean Forensic Sciences Conference, San Juan, Puerto Rico, 9/11/95.



49. Jackson GF, Mason AP, Middleberg RA, Selavka CM, Fritch DF, Turk RF, "A Model For Postdoctoral Education in Forensic Toxicology," 25th Anniversary Meeting, Society of Forensic Toxicologists, Baltimore, MD, 10/12/95.
50. Mason AP, "Forensic Hair Drug Testing," Fall Conference, North Carolina District Attorneys Association Meeting, Wrightsville Beach, NC, 11/3/95.
51. Mason AP, "Introduction to Forensic Toxicology," in Introduction to the Forensic Sciences, A National Medical Services Breakfast Seminar, King of Prussia, PA, 11/8/95.
52. Mason AP, "Introduction to the Forensic Sciences," Lecture for Introduction to Criminal Justice, (CJ 1100), Department of Criminal Justice/Political Science, Appalachian State University, Boone, NC, 10/24/96, Invited Presentation.
53. Mason AP, "Analytical Methods for Screening and Confirmation in Biological Specimens," Part III, in Looking Backward and Forward: Three Decades of Toxicological Adventure and Beyond, AAFS Toxicology Section Workshop #16, American Academy of Forensic Sciences Annual Meeting, New York, NY, 2/18/97.
54. Mason AP, "Introduction to the Forensic Sciences," Lecture for Introduction to Criminal Justice, (CJ 1100), Department of Criminal Justice/Political Science, Appalachian State University, Boone, NC, 3/20/1997, Invited Presentation.
55. Mason AP, "Recent Advances in Forensic Hair Drug Testing," Departmental Seminar Series, Department of Chemistry, Appalachian State University, Boone, NC, 4/18/1997, Invited Presentation.
56. Mason AP, "Forensic Science & Forensic Toxicology," Career Descriptions Program, 8th Grade Science, Hardin Park School, Boone, NC, 5/30/97.
57. Mason AP, "Alcohol & Drug Counseling Resources," Stephen Ministries Continuing Education Program, First Presbyterian Church, Boone, NC, 10/14/97.
58. Selavka CS, Mason AP, "How Many Toxicologists Does It Take To Get The Same Opinion?," North East Association of Forensic Scientist (NEAFS) 1997 Annual Meeting, White Plains, NY, 10/16/97.
59. Mason AP, "Introduction to the Forensic Sciences," Lecture for Introduction to Criminal Justice, (CJ 1100), Department of Criminal Justice/Political Science, Appalachian State University, Boone, NC, 10/20/97, Invited Presentation.
60. Mason AP, "Making Connections: Toxicological Causation," North Carolina Criminal Justice Association 1998 Spring Meeting, North Carolina Justice Academy, Salemburg NC, 4/17/98, Invited Presentation.
61. Mason AP, "Convincing the Jury/Engaging the Media," Panel Presentation, North Carolina Criminal Justice Association 1998 Spring Meeting, North Carolina Justice Academy, Salemburg NC, 4/17/98, Invited Presentation.
62. Mason AP "Growing NMS's Forensic Toxicology Business," NMS Forensic Toxicology Strategic Planning Meeting, National Medical Services, Inc., Willow Grove, PA, 8/17/98, Invited Presentation.
63. Mason AP, "Making Connections: Toxicological Causation," Client Education Seminar, Cranfill, Sumner & Hartzog, L.L.P., Charlotte, NC, 11/12/98, Invited Presentation.

64. Mason AP, "Making Connections: Toxicological Causation," NC District Attorneys Annual Meeting, Boone, NC, 11/13/98, Invited Presentation.
65. Mason AP, "Making Connections: Toxicological Causation," Client Education Seminar, Cranfill, Sumner & Hartzog, L.L.P., Raleigh, NC, 12/3/98, Invited Presentation.
66. Mason, AP, "False Positive Drug Testing Results: What If It's Not What You Think You've Got?," A. R. Smith Department of Chemistry, Appalachian State University, Boone, NC, 3/12/99, Invited Presentation.
67. Mason AP, "Introduction to the Forensic Sciences," Lecture for Introduction to Criminal Justice, (CJ 1100), Department of Criminal Justice/Political Science, Appalachian State University, Boone, NC, 3/18/99, Invited Presentation.
68. Mason AP, "Analysis of GC/MS-SIM Data: Application To A Contested Case Concerning The Detection Of Cocaine," Forensic Chemistry Interest Group, Departments of Chemistry and Criminal Justice, Appalachian State University, Boone, NC 28607, 10/17/00, Invited Presentation.
69. Mason AP, "Analysis of "Alternative Specimens in Forensic Toxicology," ASU Sigma Xi Scientific Research Society Meeting, Appalachian State University, Boone, NC, 12/5/00, Invited Presentation.
70. Mason AP, "Arsenic Toxicology," North Carolina Homicide Investigators Association, Spring 2001 Working Group Meeting, Boone, NC, 4/18/01, Invited Presentation.
71. Mason AP, "Forensic Science & Forensic Toxicology," Freshman Seminar, Forensic Science Curriculum Students, Departments of Chemistry and Criminal Justice, Appalachian State University, Boone, NC 28607, 10/24/01, Invited Presentation.
72. Mason AP, "Forensic Toxicology in the Laboratory and in the Courtroom," Freshman Seminar, University Studies 1150, Appalachian State University, Boone, NC 28607, 11/06/01, Invited Presentation.
73. Mason AP, Winecker R, Ropero-Miller J, "Chemical Restraint Of An Infant Using Diphenhydramine Associated With A Fatality," Annual Meeting, Society of Forensic Toxicologists, Dearborn, MI, 10/15/02. See also J Anal Toxicol, 27/1: 193, (2003).
74. Mason AP, "Forensic Toxicology in the Laboratory and in the Courtroom," Freshman Seminar, University Studies 1150, Appalachian State University, Boone, NC 28607, 11/13/02, Invited Presentation.
75. Mason AP, "Methamphetamine (MAMP) v. Ecstasy (MDMA): What Do The Numbers Mean?," 4<sup>th</sup> Annual Western North Carolina Death Investigation Seminar, Wake Forest University Bowman Grey School of Medicine, Winston-Salem, NC, 03/27/03, Invited Presentation.
76. Mason AP, "Scientific Principles Use Of Warrants For Seizure Of Blood And Urine In Impairment Cases," Public Safety Center, Winston-Salem, NC, 04/11/03, Invited Presentation.
77. Mason AP, "Clandestine Methamphetamine (MAMP) Synthesis Using the HI – Red P Method: Procedures, Hazards, and At-Risk Populations," Attorney Education Seminar, Boone, NC, 07/03/03.
78. Mason AP, Cody JT, "Sympathomimetic Amines," Forensic Toxicology Review, SOFT Continuing Education Seminar, Durham - Research Triangle Park, NC, 08/18/03, Invited Presentation.
79. Mason AP, "Clandestine Methamphetamine Synthesis," Public Education Seminar on Substance Abuse, Sponsored by D.A.R.T. of Avery County, Inc., Newland, NC, 08/29/03, Invited Presentation.

80. Mason AP, "Clandestine Methamphetamine (MA) Synthesis (Meth Labs)," Meth Lab response team for Children & Families: Signs and Safety Training for In-Home Workers, Watauga County Dept of Social Services, Boone, NC, 09/19/03.
81. Mason AP, "Clandestine Methamphetamine (MA) Synthesis (Meth Labs)," Meth Lab Community Forum, Watauga County Sheriff's Office, Boone, NC, 09/23/03.
82. Mason AP, "Recognizing Clandestine Methamphetamine Production Sites," Meth Lab Community Forum, Boone Area Chamber of Commerce, Boone, NC, 11/5/03, Invited Presentation.
83. Mason AP, "Recognizing Clandestine Methamphetamine Production Sites," Appalachian State University Forensic Science Club, A. R. Smith Department of Chemistry, Appalachian State University, Boone, NC, 11/5/03.
84. Mason AP, "Protecting Our Children," in "Methlabs: Protecting Our Children from Methamphetamine," NC Association of County Directors of Social Services, Sponsored by the Governors Crime Commission, Asheville, NC, 12/4/03, Invited Presentation.
85. Mason AP, "Clandestine Methamphetamine Production," in "Methamphetamine Laboratories in Wilkes?," Sponsored by the Wilkes Community Child Protection Team, and the Wilkes Child Fatality Prevention Team, Wilkes Co. Health Department, Wilkesboro, NC, 02/10/04.
86. Mason AP, "Clandestine Methamphetamine Production," monthly meeting, Watauga County Foster Parents Support and Training Program, Watauga Co. Dept. of Social Services, Boone, NC, 02/10/04.
87. Mason AP, "Meth Labs: Protecting Our Children from Methamphetamine," Child Protective Services Team, Catawba County Department of Social Services, Lenoir, NC, 03/09/04.
88. Mason AP, "Clandestine Methamphetamine Synthesis" Defense Attorney Education Seminar, Boone, NC, 03/10/04.
89. Mason AP, "Clandestine Methamphetamine Synthesis – Hazards, Recognition, and Community Defenses," Meth Lab Community Forum, Watauga Co. Sheriff's Office, Boone, NC, 03/21/04, Invited Presentation.
90. Mason AP, "Clandestine Methamphetamine Production: Process & Hazards," in "Children, Chaos & Chemicals: The dangers of living in a methamphetamine lab home," presented at "Spotlight on Young Children: Preventing and Treating Abuse and Neglect," sponsored by Preventing Child Abuse in North Carolina (PCANC), Durham, NC, 03/30/04, Invited Presentation.
91. Mason AP, "Clandestine Methamphetamine Lab Detection & Protection," in "Children, Chaos & Chemicals: The dangers of living in a methamphetamine lab home," presented at "Spotlight on Young Children: Preventing and Treating Abuse and Neglect," sponsored by Preventing Child Abuse in North Carolina (PCANC), Durham, NC, 03/30/04, Invited Presentation.
92. Mason AP, "Clandestine Methamphetamine Production: Process & Hazards," in "Children in Methlab Homes: Implications for DSS Services," Work Force and Children's Services Supervisors Meeting, Waynesville, NC, 04/26/04, Invited Presentation.
93. Mason AP, "Clandestine Methamphetamine Lab Detection & Protection," in "Children in Methlab Homes: Implications for DSS Services," Work Force and Children's Services Supervisors Meeting, Waynesville, NC, 04/26/04, Invited Presentation.

94. Mason AP, "Toxicological Hazards Associates with Gases and Other Waste Products," Part 3, in "The Toxicological Hazards of Clandestine Methamphetamine Synthesis," Session 1C in the FBI Laboratory Symposium on Forensic Toxicology, Washington, DC, 08/29/04.
95. Mason AP, "Meth Labs: Process & Risks," Annual Meeting, North Carolina Adult Protective Services Association, Asheville, NC, 09/22/04, Invited Presentation.
96. Mason AP, "Meth Labs: Recognition & Protection," Annual Meeting, North Carolina Adult Protective Services Association, Asheville, NC, 09/22/04, Invited Presentation.
97. Mason AP, "Meth Labs: Clandestine Methamphetamine Synthesis, Hazards & Protection," Annual Meeting, North Carolina Family Based Services Association, Blowing Rock, NC, 11/17/04, Invited Presentation.
98. Mason AP, "Forensic Urine Drug Screening by Immunoassay," ASU Forensic Science Club Meeting, Dept. of Chemistry, Appalachian State University, Boone, NC, 03/31/05.
99. Mason AP, "Clandestine Methamphetamine Synthesis & Use," Monthly Meeting, Catawba County Drug Endangered Child (DEC) Methamphetamine Task Force, Lenoir, NC, 07/12/05, Invited Presentation.
100. Mason AP, "Clandestine Methamphetamine Lab Detection & Protection," Monthly Meeting, Catawba County Drug Endangered Child (DEC) Methamphetamine Task Force, Lenoir, NC, 07/12/05, Invited Presentation.
101. Mason AP, "Clandestine Methamphetamine Synthesis & Use," Monthly Meeting, McDowell County Drug Endangered Child (DEC) Methamphetamine Task Force, Marion, NC, 08/10/05, Invited Presentation.
102. Mason AP, "Clandestine Methamphetamine Lab Detection & Protection," Monthly Meeting, McDowell County Drug Endangered Child (DEC) Methamphetamine Task Force, Marion, NC, 08/10/05, Invited Presentation.
103. Mason AP, "Ethanol Extrapolation and Expert Testimony", in Fighting the DWI Exception to the Constitution, NC Academy of Trial Lawyers, Criminal Law Section, CLE Presentation, Greensboro, NC 01/20/06, Invited Presentation.
104. Mason AP, et al., "Community Forum on Drug Endangered Children Teams", videotaped training presentation recorded for use and sponsored by the NC Division of Social Services, and the Family and Children's Resource Program, School of Social Work, UNC Chapel Hill, Recorded in Asheville, NC, 03/03/06, Invited Presentation.
105. Mason AP, "Alcohol And Retrograde Extrapolation Issues: Facts And Fantasies," Presentation and case-related discussions with attorneys, Salisbury, NC, 02/02/07, Invited Presentation.
106. Mason AP, "Dangers Of Methamphetamine Synthesis, And Understanding The State Drug Endangered Child (DEC) Protocol, in Defending a Meth Case in North Carolina, NC Academy of Trial Lawyers, Criminal Law Section, CLE Presentation, Asheville, NC, 03/16/07 Invited Presentation.
107. Mason AP, "Chemical Classes And Compounds In Forensic Toxicology", in "Overview and Review of Forensic Toxicology, Workshop #4, Annual Meeting, Society of Forensic Toxicology, Phoenix, AZ, 10/27/08.
108. Mason AP, "Recognition And Evaluation Of Alcohol And Drug-Related Impairment Signs", In-Service Training Seminar, Hospitality House of Boone, NC, Boone, NC, 8/17/09.
109. Mason AP, "Linear Retrograde Extrapolation Of Blood Alcohol Concentrations: A Contemporary Problem In Forensic Science, ASU Forensic Science Club, Appalachian State University, Boone, NC, 9/28/09.

110. Mason AP, "Forensic Toxicology," in Introduction to Forensic Chemistry, Chemistry 2400, Department of Chemistry, Appalachian State University, Boone, NC, 10/29/09.
111. Mason AP, "Retrograde Extrapolation Of Alcohol: Myths & Facts," in Practical Criminal Law 2009, Continuing Legal Education Seminar Sponsored by the Rowan Co. Bar Association, Salisbury, NC, 11/6/09, Invited Presentation.
112. Mason AP, "Contemporary Problems in Forensic Science: Linear Retrograde Extrapolation of Blood Alcohol Concentrations: ASU Sigma Xi Science Society, Appalachian State University, Boone, NC, 11/17/09, Invited Presentation.
113. Mason AP "Forensic Toxicology of Ethyl Alcohol," in Punitive Damages in DWI and Other Cases, Continuing Legal Education Course, Sponsored by North Carolina Advocates for Justice, Greensboro, NC, 2/12/10, Invited Presentation.
114. Mason AP, "Marijuana, Part I: Introduction, Pharmacognosy, and Pharmacology/Toxicology", Chemistry 4600, Forensic Toxicology, Dept. of Chemistry, Appalachian State University, Boone, NC, 4/2/10.
115. Mason AP, "Marijuana, Part II: Analysis, Interpretation, Evidence for Impairment, and Case Study – Marijuana Tea", Chemistry 4600, Forensic Toxicology, Dept. of Chemistry, Appalachian State University, Boone, NC, 4/7/10.
116. Mason AP, "The Forensic Toxicology of Alcohol", Honors 3506, The Chemistry, Science and Business of Beer, Appalachian State University, Boone, NC, 4/12/10.
117. Mason AP, "Dangers Of Methamphetamine Synthesis and Use", Client Education Presentation and Methamphetamine Impact Training, Watauga County DSS, Boone, NC, 7/22/10.
118. Mason AP, "Toxicology Testing in North Carolina Criminal Cases", Meeting of the Buncombe County Criminal Defense Attorneys Association, Asheville, NC, 8/26/10.
119. Mason AP, "Alcohol Drugs and Driving: Interpretation of Forensic Toxicology Reports", in Mountain Magic, Continuing Legal Education Course, Sponsored by North Carolina Advocates for Justice, Asheville, NC, 10/15/10, Invited Presentation.

**INVENTION DISCLOSURES:**

1. Reisner HM, de Serres M, Scheil CD, McBay AJ, Mason AP, "Monoclonal Antibodies Reactive with Tetrahydrocannabinols," University of North Carolina, Chapel Hill, NC, 6/84, (ORS84-8).
2. Reisner HM, Mason AP, de Serres M, "Monoclonal Murine Rheumatoid Factors with Anti-Contope Specificity," University of North Carolina, Chapel Hill, NC, 6/84, (ORS85-9); Patent Application.
3. Reisner HM, Mason AP, de Serres M, "Anti-Contope Antibodies Used in Detection Systems in Immunoassays," University of North Carolina, Chapel Hill, NC, 6/85, (ORS85-10).
4. Mason AP, Reisner HM, de Serres M, McBay AJ, "Fluoroimmunoassay for THC," University of North Carolina, Chapel Hill, NC, 5/87, (ORS87-12).
5. Mason AP, McBay AJ, "Tetrahydrocannabinol Fluoroligand," University of North Carolina, Chapel Hill, NC, 5/87, (ORS87-13).

6. Mason AP, McBay AJ, "Tetrahydrocannabinol Fluoroligand Fluorescence Enhancement," University of North Carolina, Chapel Hill, NC, 5/87, (ORS87-14).
7. Mason AP, Reisner HM, de Serres M, "Improved Indirect Quenching Fluoroimmunoassay for Haptenic Antigens," University of North Carolina, Chapel Hill, NC, 5/87, (ORS87-15).
8. Mason AP, "Improved Indirect Quenching Fluoroimmunoassay for Haptenic Antigens; Application to Tetrahydrocannabinol," University of North Carolina, Chapel Hill, NC, 5/87, (ORS87-16).

**CONSULTATION:**

1. Evaluation of a microcomputer based program for on-line determinations of immunoglobulin binding affinity constants using Particle Concentration Fluorescence Immunoassay technologies; Pandex Division, Baxter Healthcare Corporation, Mundelein, IL, 7/87.