

FREDERIC W. WHITEHURST, J.D. Ph.D.

*Attorney at Law (NC Bar # 28864), Forensic Consultant,
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EDUCATION

**Bachelor Of Science 1974
East Carolina University, Greenville, N.C.
Chemistry**

**Ph.D. 1980
Duke University, Durham, N.C.
Chemistry**

**Postdoctoral Fellow 1980-1982
Texas A&M University
College Station, Texas**

**Juris Doctorate 1996
Georgetown University School of Law
Washington, D.C.**

EMPLOYMENT

**United States Army 1969-1972
23RD DIV., 11TH, 196TH AND 198TH BDE
Infantry/Military Intelligence
Vietnam**

**East Carolina University 1973-1974
Research Assistant - Chemistry
Greenville, North Carolina**

**Duke University 1974-1980
Research/Teaching Assistant - Chemistry
Durham, North Carolina**

**Texas A&M University 1980-1982
Robert Welch Research Fellow - Chemistry
College Station, Texas**

Federal Bureau of Investigation 1982-1998

**General/Reactive Crime Investigation 1982-1983
Houston, Texas**

**General/Reactive Crime Investigation 1983-1984
Organized Crime/Reactive Crime Narcotics Investigation
Sacramento, California**

**Organized Crime: Columbian Cocaine and Middle Eastern
Heroin Trafficking 1984-1986
Los Angeles, California**

**FBI Laboratory: Principally Forensic Analytical Chemistry -
Involving Explosives 1986-1998
Explosives Residue, Polymers, Lubricants, Coatings, Expert
Analysis, and Testimony -- Involving such investigations as Pan
Am 103 and World Trade Center Bombings
Washington, D.C.**

**Forensic Justice Project 1998- Present
Executive Director
Washington, D.C.**

**Involving research projects concerning forensic paint and
polymer analyses, comparative bullet lead analysis, drug
analysis, testing laboratory audits, and forensic lab protocol
analyses.**

**Attorney at Law 2003-Present
Bethel, N.C.**

Professional Organizations

**American Chemical Society
International Society of Explosives Engineers
Sigma Xi, The Scientific Research Society**

**American Academy of Forensic Science
North Carolina Bar Association
North Carolina Academy of Trial Lawyers**

TRAINING/SHORT COURSES

**New Agents Training
FBI Academy
2/22/82-6/5/82
Quantico, Virginia**

**FBI Narcotics Matters Training
Federal Law Enforcement Training Center
1984/one week
Glynco, Georgia**

**Illicit Drug Lab Training
Southwest Regional Drug Enforcement Administration
1984
National City, California**

**Instrumental Analysis of Explosives and Explosive Residues
FBI Academy
7/1986
Quantico, Virginia**

**Chromatography Training Course
Federal Bureau of Investigation
12/24-30/86
Quantico, Virginia**

**Pittsburgh Analytical Chemistry Conference
1986/1987
Pittsburgh, Pennsylvania**

American Chemical Society

Short Course on Polymer Chemistry
3/14-20/87
Virginia Polytechnical Institute
Blacksburg, Virginia

Pyrotechnics and Explosives Seminar
8/2-7/87
Washington College
Chestertown, Maryland

Mass Spectrometry Training
Finnegan Corporation
11/18-23/87
Cincinnati, Ohio

Instrumental Analysis of Paints and Plastics
FBI Academy
4/10-14/95
Quantico, Virginia

Training/Liaison for Forensic Paint Analysis
7/18-19/95
Royal Canadian Mounted Police
Ottawa, Canada

Forensic Paint Analysis Training
8/20-25/95
German Federal Police Laboratory
Weisbaden, Germany

Conference of the Technical Working Group
on Forensic Paint Analysis
11/13-15/95
FBI Academy
Quantico, Virginia

SPIE Robotic Conference
11/18-22/96
Boston, Massachusetts

**Landmine Detection Conference
12/2-3/96
Washington, D.C.**

**2005 - Present
Intensive Study of Issues in Analysis of Cannabis Sativa/Field
Tests for Controlled Substances**

LECTURES/PRESENTATIONS

Forensic Science Lectures

**Lecturer at and Administrator of the FBI's Instrumental
Analysis of Explosives and Explosives Residue Class
1988-1995
FBI Academy
Quantico, Virginia**

**Presentation explaining Explosives Detection and Tagging to
Summit Seven Conference
3/2-3/89
U.S. State Department
Washington, D.C.**

**Lecturer at the FBI's Forensic Analysis Paint School
6/7-10/88
8/29/89
FBI Academy
Quantico, Virginia**

**Lecturer at the FBI's Forensic Applications of
Chromatography School
1990-1994
FBI Academy
Quantico, Virginia**

**Plenary Lecturer
University of Rhode Island Conference on Forensic Science**

**4/12-14/91
Rhode Island**

**Lecturer FAA Conference on Airline Security
4/13-17/92
Avalon, New Jersey**

**Lecturer in Explosives, Central Intelligence Agency
Training Facility
6/29-30/93**

**Lecturer in Explosives Detection to U.S. Marine Corps JAG
11/16/93
Washington, D.C.**

**Lecturer FBI's Explosives School
6/18/95
Dayton, Ohio**

**International Conference on Development of Forensic
Explosive Analysis Protocols
6/18-25/93
Quantico, Virginia**

**Lecturer Federal Aviation Administration
Conference on Explosive Detection
11/13-15/91
Atlantic City, New Jersey**

**Testimony concerning FBI Laboratory failures before the
House Judiciary Committee
U.S. Congress 1997**

**Testimony concerning FBI Laboratory failures before the
Senate Judiciary Committee
U.S. Congress 1997**

**Chemical/Biological Warfare Agent Crime Scene Training
4/7-11/87
Department of Defense**

**Office of Technology Assessment Workshop on Drug Detection
Technologies for Port of Entry Traffic and the Intelligence
Research and Development Council
Workshop on Drug Detection Technologies
1986-1987**

**Physical Testing of Paints and Coatings
5/15-20/88
Department of Chemistry
University of Missouri
Rolla, Missouri**

**Introduction to Polymer Chemistry
10/30-11/3/88
Department of Chemistry
University of Missouri
Rolla, Missouri**

**Advanced Explosives Detection Equipment Conference
4/25-26/89
Corps of Engineers
Research and Development Center
Ft. Belvoir, Virginia**

**Third International Conference on Explosives and
Explosives Residue Analysis
7/8-17/89
Mannheim, Germany**

**Advanced Pyrotechnic and Explosives Applications
8/14-20/89
Washington College
Chestertown, Maryland**

**Explosives Plant Tours, Atlas and Independent Explosives
Manufacturers
10/18-19/89
Pennsylvania**

National Academy of Science

**International Symposium on Commercial
Aviation Security (Detection of Explosives)
2/26-27/90
Washington, D.C.**

**Designer Industrial and Military Explosives Class
4/18-20/90
University of Missouri
Rolla, Missouri**

**Standard Fusee Plant Tour
6/27/90
Easton, Maryland**

**Forensic Trace Analysis Symposium
6/24-26/91
FBI Academy
Quantico, Virginia**

**Holston Army Munitions Plant
Radford Arsenal Muniton Plant
7/17-22/91
Kingsport, Tennessee
Radford, Virginia**

**Conference Regarding Forensic Analysis of Copy Toner
10/13/94
Lexmark Corporation
Lexmark, Kentucky**

**Continuing Legal Education Courses and Academic
Presentations**

**National Association of Criminal Defense Lawyers
4/20/98 Conference (Forensic Laboratory Failures)
Santa Monica, California**

Federal Public Defenders Conference

**6/18-19/98 (Detection of Forensic Laboratory Failures)
Dallas, Texas**

**Federal Public Defenders Conference
8/26-28/98 (Suppression of Exculpatory Evidence from Forensic
Laboratory Work Product)
Portland, Maine**

**Federal Public Defenders Conference
10/98 (Forensic Laboratory Failures)
San Francisco, California**

**California Association of Criminalists
10/98 (The Importance of Science in the Courtroom)
San Diego, California**

**Accuracy in Media
10/24/98 (Oversight Overlooked, The FBI and the EPA)
Washington, D.C.**

**National Conference on Wrongful Convictions & The Death
Penalty
11/13-15/98 (Flawed Forensics)
Chicago, Illinois**

**Connecticut Criminal Defense Lawyers Association
3/4/99 (Flawed Forensics)
Hartford, Connecticut**

**National Association of Criminal Defense Lawyers
3/18-20/99 (Investigating Labs and Experts: All That Glitters is
Not Gold)
St. Louis, Missouri**

**Maryland Public Defenders Office
4/28/99 (Investigating Forensic Work Product)
Maryland**

**Office of the State Appellate Defender, Conference
5/14/99 (A Troubling Case Study: The Practice of Forensic**

**Science in the FBI Lab)
Chicago, Illinois**

**New Mexico Criminal Defense Lawyers Association Conference
7/10/99 (Crime Lab Problems: What they are and how to change
them)
Albuquerque, New Mexico**

**Southern Association of Forensic Science
9/28/99 (Ethics Panel Discussion)
Myrtle Beach, South Carolina**

**American Society of Access Professionals
8/31/98 (The Fruits of the Labor: End Results of FOIA and
Privacy Requests)
Rockville, Maryland**

**Public Administration Forum
11/30/99 (Forensic Lab Issues)
Washington, D.C.**

**National Forensic Center
11/11-13/99 (Expert Witness Fraud)
Newport Beach, California**

**Minnesota Justice Foundation
11/4-6/99 (Forensic Lab Issues)
Minneapolis, Minnesota**

**American Academy of Forensic Science
2/21-24/00 (Attendee)
Reno, Nevada**

**California Public Defenders Association
3/2/00 (Attendee)
Newport Beach, California**

**Oregon Criminal Defense Lawyers Association
3/11/00 (Forensic Failure: A Continuing Problem)
Eugene, Oregon**

**Montana Association of Criminal Defense Lawyers
8/4/00 (Flagging the Defense and the Scottsboro Boys; Lessons
Learned? Lessons Forgotten!)
Helena, Montana**

**New Jersey Association of Criminal Defense Lawyers
10/28/00 (Auditing Forensic Crime Lab Work Product)
New Brunswick, New Jersey**

**Federal Public Defenders Office
Northern District of Ohio
8/17-18/00 (Critique of the FBI National Crime Lab)
Cleveland, Ohio**

**National Institute of Justice Conference on Science and the
Law, US Dept of Justice
11/11-14/00 ("Matches" An Overinference of Data? A Giglio
Obligation?) Forensic Paint Analysis
San Diego, California**

**Oregon Criminal Defense Lawyers Association
11/4-6/00 (Forensic Crime Lab Issues)
Puerto Vallarta, Mexico**

**University of Michigan School of Law
11/16/00 (Secrecy and Whistleblowing)
Ann Arbor, Michigan**

**District of Columbia Bar Association
3/16/01
Washington, D.C.**

**South Carolina Association of Criminal Defense Lawyers
4/7/01 (Blinded by Science: Forensic Science and Experts)
Columbia, South Carolina**

**North American Conference on Wrongful Conviction
Investigations
5/18-19/01 (Laboratory Abuse and Fraud)
Chicago, Illinois**

**Duke University School of Law
11/13/01 (Auditing Crime Lab Work Product)
Durham, North Carolina**

**Illinois Association of Criminal Defense Lawyers Conference
3/8/02 (Expert Witness Fraud)
Chicago, Illinois**

**Illinois Association of Criminal Defense Lawyers Conference
3/22/02 (Expert Witness Fraud)
Marion, Illinois**

**Washington University School of Law
3/18/02 (Addressing FBI Forensic Lab Failures)
Washington, D.C.**

**Harvard University School of Law
Wrongful Convictions Symposium
4/19-20/02 (Panelist: Junk Science and Wrongful Convictions)
Cambridge, Massachusetts**

**Oklahoma City University School of Law
3/6/03 (Ipse Dixit, Dictated Truth, Why?)
Oklahoma City, Ok**

**North Carolina Academy of Trial Lawyers
Problems with Forensic Sciences Seminar
4/2/03 (Problems with Forensic Sciences)
Raleigh, North Carolina**

**North Carolina Association of Public Defenders
5/14/03 (Auditing the Work Product of the State's Forensic
Crime Lab)
Wrightsville Beach, North Carolina**

**Harris County Criminal Lawyers Association Conference
5/29-30/03 (Crime Lab Issues)
Houston, Texas**

Florida Association of Criminal Defense Lawyers Conf.

**6/12-13/03 (Crime Lab Issues)
Palm Beach, Florida**

**Wisconsin Association of Criminal Defense Lawyers Conf.
6/18-20/03 (Problems in the Crime Lab)
Madison, Wisconsin**

**Maryland Criminal Defense Attorneys' Association
10/10-11/03 (Strategies in Challenging Scientific Witnesses)
Baltimore, Maryland**

**Federal Public Defenders Conference
10/08-09/03 (Forensic Crime Lab Issues)
Wilmington, North Carolina**

**Massachusetts Continuing Legal Education Conference
10/17/03 (Forensic Failures of Crime Labs)
Boston, Massachusetts**

**North Carolina Public Defender Investigators Conference
3/17-19/04 (Evaluating the Work Product of the State's Forensic
Crime Lab)
Chapel Hill, North Carolina**

**North Carolina Association of Trial Lawyers
4/2/04 (Demystifying the Crime Lab)
Raleigh, North Carolina**

**National Defender Investigator Association Conference
4/06-09/04 (A Prospective on Forensic Labs from an Insider)
Boston, Massachusetts**

**Virginia Association of Criminal Defense Lawyers Conf.
5/21/04 (Issues in Forensic Evidence)
Richmond, Virginia**

**New Jersey Public Defenders Office
9/09-10/04 (Forensic Crime Lab Issues)
Atlantic City, New Jersey**

**Alaska Investigators Association Conference
9/27/04 (Issues in Forensic Analysis of Paint, Explosives,
Laboratory Audit, and other areas of forensic science.)
Anchorage, Alaska**

**North Carolina Bar Association Conference
11/19/04 (Forensic Crime Lab Work Product Quality)
Greensboro, North Carolina**

**University of Kentucky
Eastern Kentucky University
Criminal Justice & Policy Studies Seminar
2/10/05 (Auditing Forensic Lab work product)
Lexington, Ky**

**Oregon Criminal Defense Lawyers Association
3/12/05 (The Crime Lab: What to Get and How to Get It)
Portland, Oregon**

**Rowan County, NC, Criminal Defense Bar Meeting
4/15/05 (Addressing Crime Lab Issues)
Salisbury, North Carolina**

**Alabama Criminal Defense Lawyers Association Conference
6/23-25/05 (Forensics; Junk Science versus Real Science)
Pensacola Beach, Florida**

**National Association of Criminal Defense Lawyers Conf.
9/30/05 - 10/01/05 (Attacking the Crime Lab Results)
Las Vegas, Nevada**

**North Carolina Public Defenders Investigators Conference
3/16/06 (Developments in Ballistics Testing)
Myrtle Beach, South Carolina**

**Washington State Association of Criminal Defense Lawyers
3/24/06 (Cross Examining the Crime Lab)
Seattle, Washington**

**Utah Academy of Criminal Defense Lawyers
4/21-22/06 (Crime Lab Misconduct-Crime Lab Accreditation)
Salt Lake City, Utah**

**Maine Academy of Criminal Defense Lawyers
6/2/06 (The ABC's of Dealing with the Crime Lab)
Freeport, Maine**

**North Carolina Academy of Trial Lawyers
6/13/06 (Bang...Now What? Ballistic Gunshot Bullet Analysis)
Sunset Beach, North Carolina**

**Iowa Public Defenders Association
6/22/06 (How to evaluate you crime lab)
Iowa City, Iowa**

**Louisiana Association of Criminal Defense Lawyers
7/22/06 (Crime Lab Fraud...Autopsy of a Crime Lab)
Baton Rouge, Louisiana**

**Texas Criminal Defense Lawyers Association
9/20-21/06 (Forensic Crime Lab Issues)
Dallas, Texas**

**University of Cincinnati School of Law
11/9/06
Cincinnati, Ohio**

**University of North Carolina School of Government
11/30/06 - 12/1/06 (NC SBI Drug Analysis: Over-inferences on
Weight and Content)
Chapel Hill, North Carolina**

**South Texas College of Law
6/15/07 (What can and does go wrong with forensics)
Houston, Texas**

National Association of Criminal Defense Lawyers

**8/1-4/07 (Anecdotes and Lessons from Forensic Hell)
San Francisco, California**

**Texas Association of Criminal Defense Lawyers
10/4-5/07 Marijuana and Cocaine Analysis
Dallas, Texas**

**North Carolina Public Defender Seminar
11/29-30/07 (Marijuana ?)
Ashville, North Carolina**

**National College on DUI Defense
5/13-17/09 Laboratory Audit, Marijuana ?
San Diego, California**

**National College on DUI Defense
5/30/09 Laboratory Audit, Marijuana ?
Charleston, South Carolina**

**National Association of Legal Investigators
6/18-20/09 Laboratory Audit
Nashville, Tennessee**

**National College on DUI Defense
7/16-18/09 Laboratory Audit, Marijuana ?
Boston, Mass.**

**International Bridges to Justice
8/8-9/09 Forensic Laboratory Failures
Ulanhot City, Inner Mongolia**

**Iowa Association for Justice
9/17-18/09 Forensic Laboratory Failures
Iowa City, Iowa**

**Mecklenberg County Public Defenders Office
10/9/09 Forensic Laboratory Audit, Marijuana ?
Charlotte, North Carolina**

**Texas Criminal Defense Lawyers Association
10/21-23/09 Forensic Laboratory Audit, Marijuana? Random
Sampling
Houston, Texas**

Testimony Experience

Approximately 60 testimonies as expert witness in analytical chemistry of explosives, plastics, lubricants, analytical chemistry, drugs.

**Testimony concerning FBI Laboratory failures before the House
Judiciary Committee
U.S. Congress 1997**

**Testimony concerning FBI Laboratory failures before the
Senate Judiciary Committee
U.S. Congress 1997**