

Matthew Talbot Barnhill, Jr.

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Education

1966 **Emory University**, Atlanta, Georgia
B.S., Chemistry (ACS)
1968 M.S., Physical Chemistry
1975 Ph.D., Biophysical Chemistry

Experience

1971–1976 **Georgia State Crime Laboratory**, Atlanta, Georgia
Forensic Toxicologist

1976–1983 **Alabama Department of Forensic Sciences**
Mobile Regional Laboratory, Mobile, Alabama
Forensic Toxicologist

1978–Present **American Board of Forensic Toxicology**
Fellow

1983–1998 **Alabama Department of Forensic Sciences**
Toxicology Coordinator

1992–1998 **Intoxilyzer[®] 5000 Operator Training Program**
(under auspices of Alabama Implied Consent Act)
Instructor

1998–2003 **Alabama Department of Forensic Sciences**
(Retired) *Chief Toxicologist*

1986–2003 **Alabama Department of Forensic Sciences**
(Retired) *Assistant Director, Region IV*

1992–Present **National Laboratory Certification Program**
(formerly NIDA Laboratories, now SAMHSA Laboratories)
Inspector

2003–Present Consultant in forensic toxicology

Specialized Training

1995 **CMI, Inc.**, Owensboro, Kentucky
Intoxilyzer[®] 5000 Breath Alcohol Analysis Instrument Basic Maintenance,
Repair, Operation & Calibration

1995 **Indiana University**, Bloomington, Indiana
Tests for BAC in Highway Safety Programs: Supervision and Expert
Testimony

Professional Societies

American Academy of Forensic Sciences (AAFS)
Society of Forensic Toxicologists (SOFT)
International Association of Forensic Toxicologists
American Chemical Society
Alabama Association of Forensic Sciences
International Association for Chemical Testing

Presentations and Publications

Wells, D. J., and M. T. Barnhill, Jr. "Comparative Sensitivity of the Abbott TDX and Other Immunoassay Techniques for Urine Cannabinoid Screening." Presented at SOFT Meeting, Philadelphia, Pennsylvania, 1988

Wells, D. J., and M. T. Barnhill, Jr. "Comparative Results with Five Cannabinoid Immunoassay Systems at the Screening Threshold of 100 ug/L." *Clinical Chemistry* 1989;35/11:2241–2243.

Wells, D. J., and M. T. Barnhill, Jr. "Comparison of Hospital Laboratory Serum Alcohol Obtained by an Enzymatic Method with Whole Blood Values Determined by Gas Chromatography." Presented at TIAFT/SOFT Joint Congress, Tampa, Florida, 1994.

Yates, Tommy, D.O.; Charles B. Odom, M.D.; M. T. Barnhill, Jr., Ph.D.; and James C. U. Downs, M.D. "Deaths Due to Clozapine (Clozaril®)." Presented at the AAFS Annual Meeting, Nashville, Tennessee, 1996.

Wells, D. J., Jr., and M. T. Barnhill, Jr. "Unusually High Ethanol Levels in Two Emergency Medicine Patients." *Journal of Analytical Toxicology* **20** (4):272 (1996).

Martin, Louisa A.; Kelly M. Wood; and M. T. Barnhill, Jr. "Integration of Multiple Spreadsheets for Efficient Quantification and Reporting." Presented at SOFT Annual Meeting, Salt Lake City, Utah, 1997.

Yates, Tommy, D.O.; M. T. Barnhill, Jr., Ph.D.; and J. C. Upshaw Downs, M.D. "Intrauterine Fetal Death Associated with Tramadol (Ultram®)." Presented at the AAFS Annual Meeting, San Francisco, California, 1998.

Barnhill, Matthew T., Jr.; Donald Herbert; and David J. Wells, Jr. "Comparison of Hospital Laboratory Serum Alcohol Levels Obtained by an Enzymatic Method with Whole Blood Levels Forensically Determined by Gas Chromatography." *Journal of Analytical Toxicology* **31** (1):23–30 (2007).