

Curriculum Vitae

Matthew E. Malhiot

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February 2018
(Updated Monthly)

Areas of Expert Testimony Provided

Alcohol and the Human Body	Forensic Alcohol Toxicology
Pharmacokinetics of Ethanol	Pharmacodynamics of Ethanol
Intoxilyzer® 5000 (64, 66, 68 & EN)	Intoxilyzer® 8000
Standardized Field Sobriety Testing	Intoxilyzer® 9000
Hand-held Breath Test Instruments (PBT)	Horizontal Gaze Nystagmus (HGN)
Retrograde Extrapolation	Widmark Calculations
State Administrative Rules for Alcohol Analysis	Breath Testing Training Curricula
Frye & Daubert Standard in Breath Testing	National Safety Council Standards
Methods of Alcohol Analysis	Infrared Breath Alcohol Analysis
Electro-Chemical Breath Alcohol Analysis	Quality Control Procedures
Forensic and Legal Aspects of Breath Alcohol Analysis	Medical Legal Blood Conversion
Breath Alcohol Analysis, Theory and Operation	SCRAM Alcohol Monitoring System
Pharmacology and Toxicology of Ethyl Alcohol	
Probation / Parole Alcohol Monitoring System(s)	

↳ PBT-1984
↳ CMI
↳ once

Park University (Parkville, Missouri)

Bachelor of Science (Criminal Justice Administration)

Indiana University

Center for Studies of Law in Action, The R. F. Borkenstein Course on Alcohol,
Drugs and Highway Safety: Testing, Research and Litigation
Center for Studies of Law in Action, Symposium on Blood and Breath Alcohol Test
Program Management and Administration

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Southern Association of Forensic Scientists

Forensic Ethanol Analysis and Interpretation Presented by The Forensic Toxicologist
Certification Board, Inc.

Florida Department of Law Enforcement, Department Inspector Training Program

Chemical and Physical Properties of Alcohol and Related Volatiles
Pharmacology and Toxicology of Ethyl Alcohol
Pharmacokinetics of Ethanol
Pharmacodynamics of Ethanol
Analysis of Biological Specimens
Methods of Alcohol Analysis
 Chemical Oxidation
 Gas Chromatography
 Infrared Breath Alcohol Analysis
 Electro-Chemical Breath Alcohol Analysis
Statistical Treatment of Data
Quality Control Procedures
Breath Alcohol Analysis, Theory and Operation
 History
 Intoxilyzer 5000 and 8000 Theory, Operation, Maintenance and Repair
 Performing the Department Inspection
Forensic and Legal Aspects of Alcohol Analysis

CMI Inc Factory Training and Certification

Intoxilyzer 5000 Factory Maintenance Training Course, Breath Alcohol Analysis
Instrument Operation & Maintenance
Intoxilyzer 8000 Factory Maintenance Training Course, Breath Alcohol Analysis
Instrument Operation & Maintenance
Intoxilyzer 8000 Breath Alcohol Analysis Instrument Advanced Repair, Maintenance &
 Calibration
Intoxilyzer 8000 Breath Alcohol Analysis Instrument Operation, Maintenance &
 Calibration
Intoxilyzer 5000 Factory Instrument Operations and Instructor
Intoxilyzer 8000 Factory Instrument Operations and Instructor
Intoxilyzer 8000 Theory and Application
Intoxilyzer 8000 Advanced Electronics
Intoxilyzer 400 Operations, Maintenance and Calibration
SD2 Accuracy Verification, Calibration Adjust, Field Checks, Maintenance & Repair
SD5 Operation, Maintenance and Calibration
Intoxilyzer 5000EN Interferent Calculations and Alcohol Concentrations

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COBRA Training

Guth Laboratory Factory Training and Certifications

Basic Operation, Technical Aspects and Maintenance for the Guth Model 34C Simulator
Basic Operation, Technical Aspects and Maintenance for the Guth Model 2100 Simulator
Basic Operation, Technical Aspects and Maintenance for the Guth Model 590 Simulator

Montana State Department of Justice, Forensic Science Division

Breath Test Specialist Certification, Intoxilyzer 5000
Breath Test Senior Operator Certification, Intoxilyzer 5000
Breath Test Technician Certification, Intoxilyzer 5000
Re-certification completed as required through 2001

Florida Department of Law Enforcement (Professional Programs)

Breath Test Operator, Intoxilyzer 5000 & Intoxilyzer 8000
Agency Inspector, Intoxilyzer 5000 & Intoxilyzer 8000
Department Inspector, Intoxilyzer 5000 & Intoxilyzer 8000
Instructor Techniques

National Highway Traffic Safety Administration Training (NHTSA)

DUI Detection and Standardized Field Sobriety Testing (S.F.S.T.)
Drugs that Impair Driving
DUI Detection and Standardized Field Sobriety Testing, Instructor/Trainer
US DOT Instructor / Facilitator Workshop
NHTSA DUI S.F.S.T. Instructor Update(s)

Police Officers Standards of Training (POST) Training

DUI Mobile Video Train the Trainer (Instructor Course)
Law Enforcement Search and Seizure Workshop
Drug Awareness

US Air Force Training

USAF Police Academy

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Other Agency Training

National Institute of Justice, Best Practices for Volumetric Measurement
National Institute of Justice, Uncertainty in Forensic Chemistry and Toxicology
Traffic Safety Responsible Alcohol and Tobacco Sales Training Instructor

Other Agency Training Cont.

Cascade County, Montana, Reserve Deputy Training Program
Recommended Standards for Breath-test Supervisors / Administrators
University of Wisconsin Law School, Resource Center on Impaired Driving, Breath and Blood Testing in Wisconsin
Wisconsin State Laboratory of Hygiene, Blood/Breath and Beyond
Indiana State Department of Toxicology, Breath Test vs. Blood Testing
University of Wisconsin, Physiology Department, Ethanol: Mechanisms, Dose and Effect
Gaseous Ethanol Standards for Calibration of Breath Analyzers
New Hampshire State Police Forensic Laboratory, Intoxilyzer 5000EN – Optical Bench
Texas Department of Public Safety, How the Intoxilyzer 5000EN Determines Alcohol Concentrations
Colorado Department of Public Health, Unstable Reference and other Misc. Noise Problems (Intoxilyzer 5000EN)
Hawaii Department of Health, Infra-red Spectroscopy: How it relates to the Intoxilyzer 5000
Medical College of Ohio, Dr Robert Forney Jr. Toxicology of Alcohol
Pacific University College of Optometry, Principles of Eye Test for Intoxication.
Realities and Myths of Eye Movements and Intoxication
New Hampshire State Police Forensic Laboratory, Intoxilyzer 5000EN Calibration
Colorado Department of Public Health and Environment, Intoxilyzer 9000 Operator Certification Course
Colorado Department of Public Health and Environment, Intoxilyzer 9000 Instructor Certification Course
Colorado Department of Public Health and Environment, Intoxilyzer 9000 Training for the Colorado Legal Community

Symposiums and Conferences

Symposium on Alcohol & Drug Enforcement, 2002, 2003, 2004, 2005, 2006, 2007, 2010
Florida Breath Test Conference 2002, 2003, 2004, 2005, 2006, 2007, 2009
Intoxilyzer User's Group 2002, 2003, 2004, 2006, 2007
International Association for Chemical Testing May 2003, Apr 2005

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Permits Held

Florida Department of Law Enforcement, Breath Test Operator
Florida Department of Law Enforcement, Agency Inspector
Montana Division of Forensic Science, Breath Test Specialist
Montana Division of Forensic Science, Senior Operator
Montana Division of Forensic Science, Technician

Certifications

Florida Department of Law Enforcement, Department Inspector
Florida Department of Law Enforcement, Criminal Justice Standards
and Training Instructor
CMI, Inc Intoxilyzer 5000 Instructor
CMI, Inc Maintenance and Repair, Intoxilyzer 5000
Guth Laboratories, Simulator Model 2100 & Model 34C Repair and Calibration
CMI, Inc Intoxilyzer 8000 Operation, Maintenance & Calibration
CMI, Inc Intoxilyzer 8000 Advanced Repair, Maintenance & Calibration

Professional Organizations, Affiliations and Memberships

International Association for Chemical Testing, Inc.
International Law Enforcement Educators and Trainers Association (former member)
Florida Basic Law Enforcement Curricula Development Committee for Traffic Stops,
DUI, Field Sobriety Testing and HGN Development

Professional Training & Education Provided

Instructor for Florida County Court Judge Training (2007, 2008, 2009, 2010)
Instructor for Georgia Municipal Court Judge Training (2014)
Guest Instructor: University of North Florida, Institute of Police Technology &
Management (Florida Breath Test Conference & Symposium on Alcohol & Drug
Enforcement)
Adjunct Instructor: Tallahassee Community College, Florida State Public Safety Institute

Work History

1979 - 1999 US Air Force, Police Officer

1997 - 2001 Cascade County Sheriff's Office, Montana

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2002- 2010 Florida Department of Law Enforcement, Alcohol Testing Program

Expert Testimony Provided

Federal Court

Montana District Federal Magistrate Court
US District Court Northern District of Florida
US District Court Middle District of Georgia

Military Court

US Air Force Courts Martial

Washington D.C.

Superior Court of the District of Columbia

Florida Courts

Alachua County	Columbia County	Duval County
Escambia County	Marion County	Okaloosa County
St. John's County	Clay County	Flagler County
Bay County	Suwannee County	Washington County
Nassau County	Jefferson County	Walton County
Sarasota County	Charlotte County	Seminole County
Monroe County	Citrus County	Pinellas County
Broward County	Lee County	St Administrative Hearing

Georgia Courts

Cobb County	Cherokee County	Putnam County
Gwinnett County	Clarke County	DeKalb County
Floyd County	Oconee County	Houston County
Dawson County	Forsyth County	Columbia County
Fulton County	Bartow County	Spalding County
Ben Hill County	Clayton County	Douglas County
Hall County	Wilkes County	Chatham County
Carrol County	Barrow County	Fayette County
White County	Bulloch County	

Montana Courts

Cascade County Justice Court
Gallatin County Justice Court
8th District Court

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14th District Court
4th District Court
Municipal Court, City of Missoula
Municipal Court, City of Bozman
Supreme Court (315 Mont. 480, 68 P.3d 848)

New York

New York County Supreme Court (Manhattan)
New York, Queens County Supreme Court (Queens)
New York City, Kings County (Brooklyn)
New York City, Richmond County (Staten Island)
New York City, New York County (Manhattan)
Suffolk County District Court (Long Island)
Southold Town Justice Court (Long Island)

Kansas Courts

Johnson County, District Court

Colorado Courts

Arapahoe County Court
Jefferson County Court
Douglas County Court
Gilpin County Court
Larimer County Court

Mississippi

Harrison County Court

Idaho

District Court, 4th Judicial District, Ada County

Texas

Harris County Court
Tarrant County Court

Louisiana

19th Judicial District Court (East Baton Rouge)

Kentucky

Nelson District Court

North Dakota

Cass County District Court

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How much he says he was drinking

Retrograde Alcohol Extrapolation Report

Organization: Escobar & Associates
Reference ID#: 20180119

Subject Information

Name: Brock Michael Troutman
Age: 35
Gender: Male

Weight (lb): 235
Height (in): 73

Extrapolation Information

Time of Interest (24hrs)	BAC (g/dl)	Range (+/-)
1805	0.221	0.089

Elimination Range (g/dl/hr)		
Low Range	High Range	Avg.
0.010	0.025	0.018

Peak @ 6:05pm

Known Case Data Information

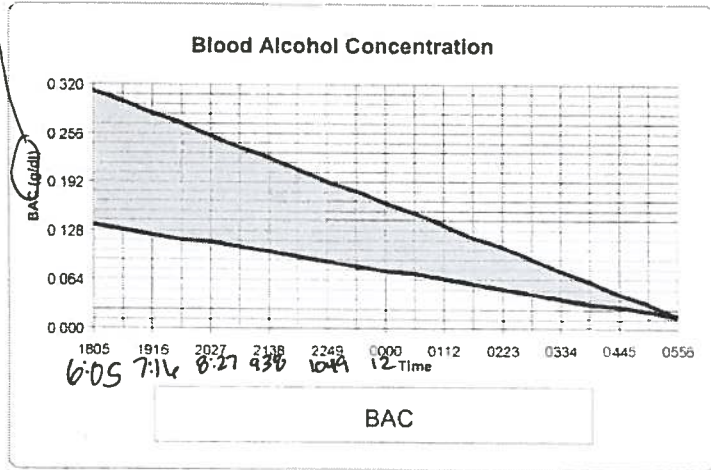
Time of Interest (24hrs): 1805
Time of Known BAC (24hrs): 0556
Known BAC (g/dl): 0.014

real alcohol what met. should look like

BAC (g/dl) at Time of Interest: 0.221

Male			
Time (24 hr)	BAC (g/dl)		
6:05	1805	0.221	+/- 0.089
	1841	0.211	+/- 0.084
	1916	0.201	+/- 0.080
7:52	1952	0.190	+/- 0.076
	2027	0.180	+/- 0.071
	2103	0.169	+/- 0.067
9:38	2138	0.159	+/- 0.062
	2214	0.149	+/- 0.058
	2249	0.139	+/- 0.053
	2325	0.128	+/- 0.049
	0000	0.118	+/- 0.045
	0036	0.107	+/- 0.040
	0112	0.097	+/- 0.036
	0147	0.087	+/- 0.031
	0223	0.076	+/- 0.027
	0258	0.066	+/- 0.022
	0334	0.055	+/- 0.018
	0409	0.045	+/- 0.013
	0445	0.035	+/- 0.009
	0520	0.025	+/- 0.005
	0556	0.014	+/- 0.000

blood



pass - 12 hr get rid of all the alcohol

The above results represent the estimated Blood Alcohol Concentration (BAC).
The accuracy of this report is contingent upon the information provided.

How conv. trans to blood
know Breath & Blood correlate how