

Edwin A. Smith, M.S., D-ABFT-FT, D-ABC, FAA

Curriculum Vitae

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Contact Info: Edwin A. Smith
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CURRENT EMPLOYMENT:

Private Consultant
Edwin A. Smith Forensic Consulting

BOARD CERTIFICATIONS:

Diplomate - American Board of Forensic Toxicology (D-ABFT-FT) 2014 - Current
Forensic Toxicology Specialist - American Board of Forensic Toxicology 2012 - 2014
Diplomate - American Board of Criminalistics (D-ABC) 2003 - Current

UNIVERSITY EDUCATION:

M.S. University of Florida, College of Veterinary Medicine
Veterinary Medical Sciences, Concentration in Forensic Toxicology
B.S. California State University, Sacramento
Major in Forensic Science, Minor in Chemistry

OTHER QUALIFICATIONS / PROFESSIONAL ORGANIZATIONS:

Vice President - California Association of Toxicologists (CAT), 2018 - current
Forensic Alcohol Supervisor (FAS), California Dept of Public Health, 2002 - 2018
Forensic Alcohol Analyst (FAA), California Dept of Public Health, 1991 - current
Qualified in Standardized Field Sobriety Tests (NHTSA and IACP Approved)

Experience:

- More than twenty-eight years of experience as a Forensic Scientist.
- Testified more than 300 times in California State and Federal courts, including testimony involving the analysis of drug samples, the illicit manufacture of drugs, the analysis of biological fluids for drugs including ethanol, and the interpretation of those findings.
- Testified in more than 390 DMV *administrative per se* hearings.
- Analyzed more than 1,000 blood and/or urine samples for the presence of ethyl alcohol, and performed more than 5,000 analyses of blood and/or urine samples for the presence of drugs and/or poisons.
- Analyzed evidence from more than 2000 cases for the presence of controlled substances in powders, liquids, etc.
- Analyzed evidence from more than 30 cases involving suspected clandestine laboratory evidence, and have responded to more than 20 suspected clandestine laboratory crime scenes.
- Participated in alcohol drinking studies, including correlation studies, blood and breath alcohol testing, and performance of standardized field sobriety tests.
- Professional experience in various areas of forensic toxicology, including human performance toxicology, workplace drug testing, and post-mortem toxicology.
- I have lectured on forensic toxicology at Mandatory Continuing Legal Education (MCLE) workshops for both prosecution and defense groups.

Courtroom / Testimony Experience:

<u>Discipline</u>	<u>Number of times</u>
Forensic Toxicology	Greater than 100
Drug Analysis	Greater than 50
Forensic Alcohol	Greater than 100
Clandestine Laboratory	7
DMV Administrative Hearings	Greater than 390

Employment History:

Employer

Edwin A. Smith Forensic Consulting (self-employed)
Private consultant – Forensic toxicology and chemistry

Dates

June 2015 to present

Employer

Drug Detection Laboratories, Inc. Sacramento, CA

Dates

April 2004 to May 2015

Job title

Forensic Toxicologist

Principal duties

Forensic toxicology; analysis, data review, case analysis, testimony

Employer

Sacramento County DA's Laboratory of Forensic Services

Dates

Nov 1993 to Dec 2004

Job title(s)

Laboratory Technician; Criminalist II, III, and Supervising Criminalist (Toxicology Section)

Principal duties

Toxicology – Analysis of biological fluids and tissues for drugs and poisons

Supervision of Toxicology Section (2000 – 2002)

Controlled Substance Analysis

Clandestine Laboratory Analysis and Response (Team Leader)

Blood Alcohol Analysis

Blood Typing and Preservation

Employer

Drug Detection Laboratories, Inc. Sacramento, CA

Dates

Nov 1990 to Nov 1993

Job title(s)

Toxicology Assistant, Forensic Toxicologist

Principal duties

Workplace and human performance toxicology

Blood Alcohol Analysis

Solid Dose Drug Analysis

Other long-term employment

Sierra Springs Water Company (employed seven years, some part time)

Dates

1979-1986

Duties: Warehouseman, truck driver (including Class 1 license)

Other training/events

<u>Type of training</u>	<u>Provided by</u>	<u>Year</u>
Technologies for Storage, Treatment and Disposal of Hazardous Materials	University of Cal. Davis Extension	1993
Quantitative Analysis and Practical Laboratory Exercises	University of Cal. Davis Extension	1993
CAT Quarterly Meeting - Sacramento	Hosted by California DOJ	1993
Current Trends in Toxicology	Northwest Association of Forensic Science	1994
Interpretation of Mass Spectra	California Criminalistics Institute	1995
Interpretation of Infrared Spectra	California Criminalistics Institute	1995
International Symposium on Explosives	A.T.F.	1995
Hazardous Waste Handling and Operations, 40 Hour Course	Network Environmental Systems, Inc.	1995
Firearms Safety	California Criminalistics Institute	1995
Methamphetamine Synthesis	Drug Enforcement Administration	1995
Introduction to Explosive Analysis	California Criminalistics Institute	1995
Clandestine Laboratory Awareness, 8-Hour	Network Environmental Systems, Inc.	1996
Analysis of Low Explosives	California Criminalistics Institute	1996
Explosive Analysis	F.B.I. Academy	1996
Arson Accelerant Detection	California Criminalistics Institute	1996
Clandestine Laboratory Analysis and Synthesis	California Criminalistics Institute	1996
Confined Space Rescue Awareness	The Continuing Challenge Workshop	1997
Clan Labs: Discovery to Redemption	The Continuing Challenge Workshop	1997
Drug Labs: Handling Ammonia Tanks	CADRE, Inc.	1997
Advanced Clandestine Laboratory Safety	Network Environmental Systems, Inc.	1997
Advanced Fire Debris Analysis	California Criminalistics Institute	1997
Confined Space Rescue Awareness	The Continuing Challenge Workshop	1997
Clan Labs: Discovery to Remediation	The Continuing Challenge Workshop	1997
Forensic Alcohol Supervisors Course	California Criminalistics Institute	1998
Introduction to Forensic Toxicology	California Criminalistics Institute	1998
Intoxilyzer 5000 factory training	CMI, Kentucky	2001
Lecture by Marcelline Burns on the Effects of Alcohol	Part of Alcohol Training Course (CCI)	2004
Pharmacology and Implications for Health Care Practitioners	American River C.C.	2004
Borkenstein Course "The Effects of Drugs on Human Performance and Behavior"	Indiana University	2004
CAT Spring meeting	Medical conditions and DUI workshop	2005
CAT Winter meeting	Prescription medication workshop	2006
CAT Summer meeting	Depression and psychosis workshop	2006
CAT Fall meeting	LC-MS workshop	2006
Standardized Field Sobriety Tests	LaPier & Associates	2007

CAT Winter meeting	Ethics workshop	2007
CAT Winter meeting	Pharmacology basics workshop	2009
CAT Spring meeting	Sleep and DUI workshop	2010
CAT Spring meeting	Bath salt and designer drug workshop	2011
CAT Spring meeting	Cannabis workshop	2012
CAT Fall meeting	FST's and pharmacology	2013
CAT Spring meeting	Combined meeting with SAT	2013
CAT Fall meeting	Alcohol & Performance/Postmortem toxicology/drinking study	2014
CAT Spring meeting	New Legislation and Regulations	2014
CAT Fall meeting	Prescription Drugs	2015
CAT Spring meeting	"Z" drugs and pharmacology	2015
HempCon San Jose	Cannabis Industry Promotional Event	2015
Drinking study observer	Sac County Sheriff's Academy	2016
CAT Fall Meeting	Multi-topic toxicology	2016
CAT Spring Meeting	Emerging Drug, Trends, and testing	2016
Silicon Valley Marijuana Awareness Conference	Marijuana Use and Abuse	2016
CAT Spring Meeting	The Future Looks Green (Cannabis)	2017
	CAT 50 th Anniversary	
CAT Fall Meeting	Multi-topic toxicology	2017
CAT Spring Meeting	DUI and DUID	2018
CAT Fall Meeting	Multi-topic toxicology	2018
CAT Spring Meeting	Drug Facilitated Sexual Assault	2019