



# DRUG DETECTION LABORATORIES, INC.

Directors: Clinical Toxicologist Scientist Licensed by California D.H.S.  
Forensic Alcohol Analysis (California) D.H.S.#--022

LAB DIRECTORS: JEFFERY L. ZEHNDER  
SUSAN C. ZEHNDER  
Staff Toxicologist EDWIN A. SMITH  
Forensic Toxicologists  
[www.drugdetection.net](http://www.drugdetection.net)

## Jeffery L. Zehnder Forensic Toxicologist Curriculum Vitae

### EDUCATION:

Bachelor of Science in Forensic Science  
Chemistry Teaching Minor  
California State University, Sacramento, Jan 1976  
AA Degree, Cosumnes River College, 1973

### LICENSE/CERTIFICATIONS:

#### **Clinical Toxicologist Scientist**

California Department of Health Services 1977

#### **Forensic Alcohol Supervisor**

California Department of Health Services 1985

#### **Forensic Alcohol Analyst**

California Department of Health Services 1976

#### **Forensic Urine Drug Testing (FUDT) Laboratory Scientific Director**

College of American Pathologists, 1992 -2002

#### **Certified Diplomat**

American College of Forensic Examiners, 1996

#### **Standardized Field Sobriety Testing**

National Highway Traffic Safety Administration (NHTSA), 2006

#### **Drug Enforcement Administration (DEA) License (all schedules) 1984**

#### **FUDT LABORATORY INSPECTOR CERTIFICATE**

COLLEGE OF AMERICAN PATHOLOGISTS, JANUARY 2000

### EXPERIENCE:

#### **February 1984 to Present:**

Laboratory Director/Founder, Drug Detection Laboratories, Inc.  
Forensic Alcohol Laboratory (1985 to Present)  
Licensed Forensic Urine Drug Testing (FUDT) Laboratory 1992-2002

#### **July 1983 to September 1985:**

**Clinical Toxicologist**, University of California Davis Medical Center.

#### **1981 to 1983:**

**Supervising Toxicologist:** Roche/Consolidated Biomedical Laboratories. Supervision of 6 Toxicologists, R&D of new testing methods, Routine testing of Clinical/Forensic Specimens.



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### EXPERIENCE (continued):

#### **1975 to 1981:**

**Forensic / Clinical Toxicologist:** Sacramento Clinical Laboratories. Forensic and Clinical toxicology testing on biological and solid dose materials.

### Forensic Toxicology Experience and Research:

Ethanol and drug analysis on over 100,000 specimens (blood, urine and solid dose). Experience includes participation in organized seminars and police department ride-alongs, studying and observing the effects of alcohol on human performance. Personal experience in conducting controlled experiments on over 75 individuals evaluating the effects of alcohol on field sobriety tests and driving tests. In addition, correlation tests involving alcohol metabolism studies on over 1000 people in personally controlled experiments.

### Courtroom Testimony Experience:

Qualified as an expert in cases regarding Forensic Toxicology, alcohol and drug testing, alcohol metabolism, the effects of alcohol and drugs on psychomotor function skills (driving, FST performance) in both civil and criminal proceedings over 2000 times in Superior, Municipal, and Federal Courts throughout California and Nevada. Testimony over 2000 times in administrative hearings (DMV).

### Professional Organizations:

California Association of Toxicologists (CAT)  
American Academy of Forensic Scientist (AAFS)  
American College of Forensic Examiners (ACFE)

### PUBLICATIONS:

**Evidence of Alcohol Intoxication**, Chapter 6 of SCIENTIFIC EVIDENCE IN CALIFORNIA CRIMINAL CASES, Continuing Education of the BAR, California; September 2008.



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### PUBLICATIONS (continued):

**Understanding Urine Drug Testing, Part I**, Family Law Counselor Issue #76 ,  
Sacramento County Bar Association, April 1999.

**Understanding Urine Drug Testing, Part II**, Family Law Counselor Issue #77,  
Sacramento County Bar Association, May, 1999.

**Understanding Urine Drug Testing, Part III**, Family Law Counselor Issue #78,  
Sacramento County Bar Association, June, 1999.

**Does Dilution Mean Dirty?** , Family Law Counselor Issue #85, Sacramento County Bar  
Association, June, 1999.

**Myths and Truths of Drug Testing**, Family Law Counselor Issue #87, Sacramento  
County Bar Association, March, 2000.

**Unreliability of Hair Testing to Determine Drug Use** , Family Law Counselor Issue  
#101 , Sacramento County Bar Association, May, 2001.

**Drug Testing A Practical Tool For Intervention and Treatment**, Professional  
Counselor Vol. 4, No. 5, March/April 1990, pg 32-37.

**Employment Drug Testing Does It Really Work?** , Professional Counselor Vol 4, No.  
6, May/June 1990. Pg 39, 54.

### Guest Lecturer/Speaker:

**Drug/Alcohol Evidence in DUI Cases:** California DUI Lawyers Assoc.; San Francisco,  
March 21<sup>st</sup>, 2009.

**DUI Evidence Discovery**, Strategies in Defending DUI cases in California, Lorman  
Education Services, Sacramento, January 9<sup>th</sup>, 2008.

**While You Were Sleeping (Current State of Drug Testing Industry)**, California  
Association of Toxicologists Quarterly Meeting, San Francisco, June 10th, 2006.

**Scientific Aspects of 11550 and DUI Cases**, California Public Defenders Association  
Annual Meeting, Monterey, June 11, 2005.



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### Guest Lecturer/Speaker (continued):

**Alcohol, Alcohol Metabolism & Alcohol Testing in DUI**, Solano County Public Defender Seminar, Fairfield, November 5th, 2005.

**Substance Abuse Testing**, Minor's Counsel Training Seminar, McGeorge School of Law, Sacramento, January 11<sup>th</sup>, 2002.

**Drug Use in Adolescents**: Parent/Teacher Drug Awareness Night; Folsom High School, November 2000.

**Child Custody Drug Testing**, Minor's Counsel Meeting, Sacramento, August 23<sup>rd</sup>, 2000.

**Hair, Sweat, Saliva Drug Testing, HOST**, California Association of Toxicologists Quarterly Meeting, February 5<sup>th</sup>, 2000.

**Drug Testing Procedures/Limitations**, Sacramento County Bar Family Law Section Luncheon, February 1<sup>st</sup>, 2000.

**Urine Drug Testing for Child Custody Cases**, Sacramento County Bar Family Law Luncheon Seminar, Sacramento, August 23<sup>rd</sup>, 2000.

**A Primer on Forensic Toxicology and Alcohol Metabolism**, Strategies in Handling DWI and DUI Cases in California, Volume II, Sacramento, September 15<sup>th</sup>, 1999.

**Urine Drug Testing For Child Custody Cases**, Sacramento County Bar Family Law Luncheon Seminar, Sacramento, September 29<sup>th</sup>, 1998

**What Happened to Science in DUI**, Expert's Night 1998, California Deuce Defenders, June 23<sup>rd</sup>, 1998, Berkeley, California.

**Understanding the In's and Out's of Breath Alcohol Testing**, State Bar of Nevada Annual Meeting, December 5th, 1996, Sparks, Nevada.

**Understanding the In's and Out's of Breath Alcohol Testing**, State Bar of Nevada Annual Meeting, December 6th, 1996, Las Vegas, Nevada.



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### Guest Lecturer/Speaker (continued):

**Drug Analysis and Cross Examination of an Expert Toxicologist/Criminalist,**  
Seminar sponsored by Criminal Defense Lawyers of Sacramento, May 24<sup>th</sup>, 1995.

**DUI Alcohol Evidence,** Luncheon -San Joaquin Public Defender Seminar, Stockton,  
CA, January 20<sup>th</sup>, 1995.

**Toxicology as a Career,** Sylvan Middle School Career Day, 1992.

**Breath, Blood, Urine Alcohol Evidence,** Northern California Deuce Defenders  
Association, San Francisco, May 14<sup>th</sup>, 1991.

**Coping with Scientific Evidence,** Annual Meeting, California Public Defenders  
Association (CPDA), September 28<sup>th</sup>, 1991, Coronado Island, CA.

**Strengths and Weaknesses of Drug Testing Procedures in 11550 Cases, California**  
Public Defenders Association 4<sup>th</sup> Annual Defending Misdemeanor Cases, Sacramento, CA,  
February 23<sup>rd</sup> 1991.

**Urine Alcohol Analysis Evidence,** Northern California Deuce Defenders Association  
Dinner Meeting, San Francisco, September 24<sup>th</sup>, 1991.

**Alcohol Metabolism and Blood/Urine Evidence,** Northern California Deuce  
Defenders Association Dinner Meeting, San Francisco, January 9<sup>th</sup>, 1990.

**Toxicology and Chemistry,** Bella Vista High School Chemistry Club, November 4<sup>th</sup>,  
1990, Sacramento, CA.

**Forensic Toxicology (Drug Testing in Family Law),** Sacramento County Bar  
Association, Family Law Section, November 6<sup>th</sup>, 1990, Sacramento, CA.

**Chemistry in Solid Dose Analysis,** Sacramento County Public Defender Luncheon  
Seminar, February 12<sup>th</sup>, 1989.

**Drug Testing Adolescents,** Del Campo High School Parent/Student Drug Awareness  
Meeting, April 12<sup>th</sup>, 1988.

**Scientific Evidence and Expert Testimony,** Marin County Bar Association Annual  
Meeting, November 15<sup>th</sup>, 1986.



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### Guest Lecturer/Speaker (continued):

**Drug Detection in Urine**, California Correctional Peace Officers Association (CCPOA)  
Meeting, December 20<sup>th</sup>, 1986.

**Drug Detection in Adolescents**, Annual Guest Lecturer, Toughlove, Carmichael CA;  
1988 to 2004.

(REVISED March 2009)