



# Idaho State Police Forensic Services



Jeremy Johnston  
Forensic Scientist III  
615 W Wilbur Ave • Coeur d' Alene ID  
(208) 209-8700 • FAX (208) 209-8612

## Education:

Lewis and Clark College, Portland, OR, 1995  
-B.S. Natural Science

Virginia Commonwealth University, Richmond, VA, 1999  
-M.S. Forensic Science

Virginia Institute of Forensic Science and Medicine, Richmond, VA, 2001  
-Drug Chemistry

## Experience:

Oregon Health Sciences University      Portland, OR August      '95-August '98

Senior Laboratory Assistant:

Responsibilities include conducting independent research within and under the guidance of the Principal Investigator for the Biochemistry and Molecular Biology Department for OHSU (Jack Kaplan). Research included techniques in site directed mutagenesis, membrane protein isolation and purification, slot blots, DNA sequencing and typing, fluorescent DNA marker mapping, and expression of mutated protein within tissue cultured cells via a retrovirus. Act as the Radiation Safety Officer for the Kaplan Lab. Order all of the supplies used within the lab for research purposes.

Virginia Division of Forensic Science      Richmond, VA      March '99-June '00

Laboratory Technician Sr., Central Laboratory:

Responsibilities include being assigned as the QA/QC technician for the DNA databank that was held within the Central Laboratory of Virginia DFS. Perform routine analysis of DNA samples returned from a secondary vendor for QA/QC purposes. Conduct the routine QA/QC analysis per the quality control procedures within the Biology Section of the Virginia DFS.

Virginia Division of Forensic Science      Richmond, VA      July 2000-July 2003

Forensic Scientist:

Responsibilities include conducting analytical testing on casework within the Drug Chemistry section for the Eastern Laboratory of Virginia DFS. Acts as the secondary operator for the Mass Spectrometers

<https://isp.idaho.gov/forensics>

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within the laboratory and is responsible for maintenance and QA/QC for all of the Eastern Laboratories Drug Chemistry instrumentation.

Idaho State Police, Region 1 Laboratory      Coeur d' Alene, ID      July 2003-May 2010  
Forensic Scientist II:

Responsibilities include conducting analytical testing on casework within the Drug Chemistry, Toxicology, Crime Scene and Clandestine Laboratory disciplines. Acts as the Regional Breath Testing Coordinator for Region 1 and 2 of Idaho. Conducting site inspections and audits as part of the quality management protocols for ISP forensics (toxicology, drug chemistry and blood and breath alcohol). Teach Breath Testing Specialist classes regionally. Testify in court as to the results and finding from casework analysis.

Idaho State Police, Region 1 Laboratory      Coeur d' Alene, ID      May 2010-present  
Forensic Scientist III, Alcohol Discipline Leader:

Responsibilities include writing and maintaining Analytical methods in accordance with the ISO 17025 Internationals Calibration Laboratory standards, conducting laboratory site audits for the region ISP labs, testifying in court, conducting calibrations for all breath testing instruments, and evaluating new instruments for potential use within the state of Idaho, and tasked with development and conducting training for all policing agencies and prosecutors within Idaho. Also assigned to the Toxicology and Drug Chemistry sections in the Coeur d' Alene laboratory.

### **Certifications:**

American Board of Forensic Toxicology – Diplomate - Forensic Alcohol Toxicology (D-ABFT-FA)

ASCLD-LAB International Certified Technical Inspector in Breath Alcohol, Blood Alcohol, Breath Alcohol Calibration, and Drug Chemistry

American Board of Criminalistics – Fellow – Drug Chemistry (F-ABC)

Alpha Phi Sigma National Criminal Justice Honor Society, 1999

### **Professional Organizations;**

International Association of Chemical Testing – member 2011 to present

- Training committee member (2011-2018)
- Publications committee member (2011 to present)
- Conference Site and Program Committee member (2018 to present)
- Manufacturer's Liaison Committee Chair (2018 to present)

National Safety Council - Alcohol, Drugs and Impairment Division – Member (2018 to present)

## Jeremy Johnston

### Testimony:

I have testified in Idaho Magistrate, District and Federal court as an expert in Blood and Breath Alcohol analysis, Alcohol Physiology, the Widmark equation, extrapolations, evidential breath testing procedures, urine toxicology and drug chemistry.

I have testified in Magistrate, District and Federal court in Virginia as an expert in drug chemistry.

### Continuing Education:

Forensic Chemist Seminar, Drug Enforcement Administration, Chantilly VA, February 2001

Institute of Applied Forensic Technology, Crime Scene Technology 1 & 2, Coeur d' Alene ID, August 2003

Society of Forensic Toxicologist, 2003 Annual meeting, Portland OR

- Antidepressant Workshop
- Principles of Sample Preparation
- Forensic Toxicology of Methadone

Robert F. Borkestein Course on Alcohol and Highway Safety: Testing, Research and Litigation, University of Indiana, May 2004

Methamphetamine Laboratory Processing, Spokane Police Department Training Center, June 2004

BHS (G386) Mass Fatalities, Idaho Bureau of Homeland Security

Forensic Identification Techniques, PNWD-IAI & NWAFS Education and Training Conference, May 2005

ISP DRE Academy, Classroom portion, Idaho State Police, January-February 2006

Intoxilyzer Workgroup Meeting, August 2006

Guth Laboratories, Basic Operation, Technical Aspects, and Maintenance for Guth Model 2100 and 590 simulators, Guth Laboratories Inc., August 2006, Missoula MT

Supervisor Series, Northwest Training and Development, October 2006

Surveys and Anatomic Pathology Education Programs, The College of American Pathologists, 2006

Laboratory Safety Short Course, The Laboratory Safety Institute, April 2006

17<sup>th</sup> Annual Technical Training Seminar, Clandestine Laboratory Investigating Chemists Association, September 2007

Analysis of Tryptamines and Phenethylamine Analogs, Clandestine Laboratory Investigating Chemists Association, September 2007

## **Jeremy Johnston**

LC-MS in the 21<sup>st</sup> Century, The Society of Forensic Toxicologists, October 2007

Solid Phase Extraction in Forensic Toxicology: Principles and Applications, The Society of Forensic Toxicologists, October 2007

Intoxilyzer Maintenance, CMI, Owensboro KY, April 2008

Viva Jr. System with WinTox Basic Education, Siemens, December 2008

Intoxilyzer 5000EN Breath Alcohol Analysis Instrument Operation, Maintenance and Calibration, April 2008

The Northwest Association of Forensic Scientists Meeting, November 2008

- ASCLD/LAB-ISO Traceability, Method Validation, Uncertainty Measurement, and Surveillance Visits
- Clandestine Laboratory Myths and Realities
- DRE/Sobriety, Presenter

ISO Auditor training, Boise, ID, April 2009

ISO calibration lab training, Anchorage, AK, May 2009

POST Instructor Certificate, February 2009

ASCLD/LAB-International Assessor Training Course, American Society of Crime Laboratory Directors Laboratory Accreditation Board, April 2009

Ethics in Forensic Science, West Virginia University, November 2009

Clandestine Laboratory ReCertifier Training, Idaho State Police, September 2009

Introduction to ISO/IEC 17025:2005, American Society of Crime Laboratory Directors Laboratory Accreditation Board, April 2009

ASCLD/LAB-International Breath Alcohol Calibration Preparation Course, American Society of Crime Laboratory Directors Laboratory Accreditation Board, April-May 2009

Advanced Pharmacokinetics for Toxicologists, Midwest Forensic Research Center, Ames, IA, July 2010

Borderline Breath Alcohol Results Presentation, Idaho Prosecuting Attorneys Association, August 2010

38<sup>th</sup> Annual FBI Crime Laboratory Development Symposium, Cincinnati OH, September 2010

Factory Authorized on the FC Series Portable Breath Testers; Lifeloc Technologies, Inc., Wheat Ridge, CO, October 2011

International Association of Chemical Testing Annual Meeting, St Louis MO, April 2011

Forensic Toxicology Certification Board – Alcohol Prep Course, St Louis MO, April 16, 2011

DUI Prosecution Training, Idaho Prosecuting Attorneys Association/Idaho State Police, May 2011

## **Jeremy Johnston**

MFRC Uncertainty of Measurement Training Course, Reynoldsburg, OH, May 2011

ASCLD/LAB Auditor

International Association of Chemical Testing Annual Meeting, Nashville, TN, April 2012

International Association of Chemical Testing Annual Meeting, Minneapolis MN, April 2013

Quality Assurance for Forensic Alcohol Testing Programs, IACT workshop, April 2013

Factory Authorized to Operate, Train, Calibrate and Maintain Software of the FC20 Portable Breath Tester, Lifeloc Technologies, Inc., Wheat Ridge, CO, January 2014

International Association of Chemical Testing Annual Meeting, Newport Beach, CA, April 2014

Draeger Factory Training, Alcotest 9510, Irving, TX, August 2014

International Association of Chemical Testing Annual Meeting, Newport, RI, April 2015

MLS Technologies, Headspace Maintenance Training, June 2015

Draeger In-House Training, Alcotest 9510, Meridian, ID, August 2015

International Association of Chemical Testing Annual Meeting, Orlando, FL, April 2016

MLS Technologies, GC-Headspace Troubleshooting and Maintenance Training, April 2016

ASCLD-LAB ISO Calibration Lab Assessor Certification Training, September 2016

Draeger In-House Training, Alcotest 9510, Meridian, ID, Nov 2016

Draeger In-House Training, Alcotest 9510, Meridian, ID, April 2017

International Association of Chemical Testing Annual Meeting, Colorado Springs, CO, April '17

27<sup>th</sup> Annual Technical Training Seminar, Clandestine Laboratory Investigating Chemists Association, September 2017

Considerations on Spectral Search Algorithms, Clandestine Laboratory Investigating Chemists Association, September 2017

Guth Laboratories Simulator Calibration Training, Meridian ID, Nov 2017

International Association of Chemical Testing Annual Meeting, Indianapolis, IN, April '18

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### Validations Completed:

Supplemental validation and Uncertainty of measurement for the Lifeloc FC-20

Dry Gas verification for use as a Calibration reference material

EasyCal Dry Gas delivery system for the LifeLoc FC-20

Draeger Alcotest 9510

### Teaching; Presentations:

The Northwest Association of Forensic Scientists Meeting, November 2008

-DRE/Sobriety, Presenter

Driving Under the Influence Testimony Workshop, Presenter/Co-Chair, IACT meeting, April 2014

Expert Testimony: Basics & Trial Experience, Presenter/Co-Chair, IACT meeting, April 2015

Idaho Prosecuting Attorneys Association, DUI Boot Camp, May 2015

Expert Testimony: Dueling Scientific Articles or Scientific Articles in Defense of the Dark Arts, Presenter/Co-Chair, IACT meeting, April 2016

Expert Testimony Workshop, Presenter/Co-Chair, IACT meeting, April 2017

Post Academy Breath Alcohol Training, North Idaho Regional Academy, March '17

Post Academy Breath Alcohol Training, North Idaho Regional Academy, November '17

Expert Testimony Workshop: Dealing With the Dishonest, Presenter/Co-Chair, IACT meeting, April '18

Idaho Prosecuting Attorneys Association Conference, Multiple presentations on topics dealing with retrograde extrapolation, scientific defense theories, current instrumentation, breath alcohol physiology, as well as live laboratory exercises and demonstrations of mouth alcohol and the burp defense, May '18