
ASA LOUIS

WASHINGTON STATE PATROL TOXICOLOGY LABORATORY
2203 AIRPORT WAY SOUTH
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WORK HISTORY

Washington State Patrol, Seattle WA

Forensic Scientist - Toxicology

Jan 2003 - May 2005, May 2006 - present

- ◆ Accession, extract and analyse forensic samples for presence of licit and illicit substances
- ◆ Report findings, testify in courts of law pertaining to findings, and as an Expert Witness
- ◆ Prepare, certify solutions used in the Breath Test Program and testify in courts of law pertaining to such
- ◆ Maintain instrumentation, develop and/or refine analytical methodologies
- ◆ Conduct "drinking labs" to investigate effects of alcohol on human performance
- ◆ Participate in "In Field Observation / Ride-along" program with police agencies

Mayo Clinic, Rochester MN

Development Technologist

May 2005 - May 2006

- ◆ Update and improve existing methods, implement validated new technology
- ◆ Organize validation data, prepare data for peer review, presentation and/or publication
- ◆ Investigate, install and evaluate laboratory equipment
- ◆ Train laboratory staff in principles of new/modified methods

Provincial Toxicology Centre, Port Coquitlam BC

Forensic Analyst

Sep 1991 - Apr 1992, Jul 1996 - Dec 2002

- ◆ Prepare, quantitatively and qualitatively analyse samples for abusive and non-abusive substances
- ◆ Report forensic and clinical results
- ◆ Testify in court of law pertaining to findings
- ◆ Maintain instrumentation, develop and/or refine analytical methodologies
- ◆ Accession forensic and clinical samples

ASL Laboratories, Vancouver BC

Section Co-ordinator, Purchaser

May 1992 - Jun 1996

- ◆ Co-ordinate daily activities of 3-4 staff members in the Extractable Hydrocarbons Group
- ◆ Prepare and quantify samples for organic compound content
- ◆ Accession samples for testing, sublet samples to support laboratories
- ◆ Purchase, receive and distribute materiel from suppliers
- ◆ Member of Emergency Spill Response Team

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ACADEMIC HISTORY

Post Baccalaureate Diploma Program - Environmental Toxicology

Simon Fraser University. Graduated: Apr 1992

Bachelor of Science - Biochemistry

University of British Columbia. Graduated: Apr 1988

PROFESSIONAL AFFILIATIONS/ CERTIFICATIONS

Forensic Toxicology Specialist Certification (FTS-ABFT) - 2010

International Association For Chemical Testing (IACT) - Member 2010

The American Academy of Forensic Sciences (AAFS) - Member 2010

The International Association of Forensic Toxicologists (TIAFT) - Member 2009

Society of Forensic Toxicologists (SOFT) - Member 2009

California Association of Toxicologists (CAT) - Associate Member 2009

Canadian Society of Forensic Science (CSFS) - General Member 2009

PUBLICATIONS

Louis A, Peterson BL, Couper FJ. XLR-11 and UR-144 in Washington State and State of Alaska Driving cases. *J Anal Toxicol.* 2014 Oct;38(3): 563-568

Louis A, Logan BK, Couper FJ. Contribution of Fruit Consumption to Ethanol Breath Measurement. Poster presentation - Society of Forensic Toxicologists Meeting, Phoenix AZ, Oct 2008

Louis A, Gordon AM, Logan BK, Indahl J, Fusaro, A. Death and Brain Injury from an Apparent Intentional Methomyl Poisoning. Platform presentation - ICADTS/TIAFT Meeting, Seattle WA, Aug 2007

Langman LJ, Kaliciak HK, Louis A. Death Attributed to Intravenous Oxycodone. Poster presentation - 55th Annual AAFS Meeting, Chicago II, Feb 2003

RELATED SKILLS

- ◆ Mass Selective Liquid Chromatography
- ◆ High Turbulence Liquid Chromatography
- ◆ Mass Selective Gas Chromatography
- ◆ Gas Chromatography
- ◆ High Pressure Liquid Chromatography
- ◆ Radio-Immuno Assay Techniques
- ◆ Colloidal Immuno Assay Techniques
- ◆ Ultraviolet Spectrophotometry
- ◆ Thin Layer Chromatography
- ◆ Supercritical Fluid Extraction
- ◆ Solid Phase Extraction Chromatography

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RELATED SKILLS

- 2014 AAFS - Designer Drug Detection in Forensic Toxicology: From Basic to Brilliant
- 2014 AAFS - Novel Psychoactive Substances: Pharmacology, Toxicology and Case Reports
- 2014 AAFS - Driving Under the Influence of Drugs
- 2014 LCGC Chromacademy - Optimizing LC-MS Ionization Conditions pt 1
- 2013 RTI International - Fundamentals of Mass Spectrometry in Toxicology
- 2013 RTI International - Fundamentals of Chromatography used in Toxicology
- 2013 RTI International - Pills and Particles: Toxicology and Linking Trace Evidence
- 2013 The Evidence Conference - What Makes a Credible Witness
- 2013 West Virginia University - Perspectives in Expert Testimony
- 2012 U. of New Mexico - Sudden Death - Cause of Death Scenarios that Mimic One Another
- 2012 West Virginia University - Ethics in Forensic Sciences
- 2012 RTI International - Z Drugs on Demand
- 2012 RTI International - Fundamentals of Immunoassay Testing Used in Toxicology
- 2012 RTI International - Drug Facts: A DFSE Perspective
- 2011 Calif. Assoc. Toxicologists - Forensic Alcohol
- 2011 Midwest Forensic Research Center - Symposium on the Toxicology of DUID
- 2011 Washington State Patrol - Horizontal Gaze Nystagmus (Dr. K Citek)
- 2011 Siemens Webinar Series - Spice
- 2010 Washington State Patrol - Spice (J Messick, Anchorage Prosecutors Office)
- 2008 Seattle Police Dept. - Advanced Roadside Impaired Driving Enforcement
- 2008 Soc. For. Toxicologists - The "Stimulating" Realm of Sympathomimetic Amines and Tryptamines
- 2008 Soc. For. Toxicologists - Applications of LC-MS in Human and Veterinary Toxicology
- 2008 Washington Traffic Safety Commission - DRE In-service Training
- 2007 Indiana University - The Effects of Drugs on Human Performance and Behaviour
- 2006 Mayo Clinic - Analyst Advanced Training (J Withers, Applied BioSystems)
- 2006 Mayo Clinic - Oral Fluids: Research and Applications (Dr. M Wagner, NH State Police)
- 2005 Mayo Clinic - Development Quality School
- 2004 Seattle Police Dept. - DUI Detection and Standardized Field Sobriety Testing (NHTSA)
- 2004 Northwest Assoc. For. Sci.- Marijuana: A Forensic Symposium
- 2004 Northwest Assoc. For. Sci. - Forensic Applications of LCMS
- 2004 Northwest Assoc. For. Sci. - GC/MSD maintenance
- 2003 Indiana University - Robert F Borkenstein course on Alcohol and Highway Safety
- 2003 Soc. For. Toxicologists - Principles of Sample Preparation
- 2003 Soc. For. Toxicologists - Practical Applications of LCMS in Routine Forensic Toxicology
- 2003 Washington State Patrol - Standard Field Sobriety Test Training (Refresher)
- 2003 Canadian Soc. For. Sci. - The A-Z of Marijuana
- 2003 Canadian Soc. For. Sci. - Rave On! Chemical Drugs and the Rave Culture
- 2003 Washington State Patrol - Blood Alcohol Analyst
- 2002 Pittsburgh Conference - Intermediate LC/MS Techniques
- 2002 Can. Comm. Epidemiology Network/ADIC - Methamphetamine Environmental Scan Summit
- 2000 UBC - Radionuclide Safety and Methodology
- 1997 Riverview Hospital - Transportation of Dangerous Goods - Biological
- 1995 ASL Labs - Transportation of Dangerous Goods - Chemical
- 1993 Hewlett-Packard - 5890 Troubleshooting and Maintenance
- 1992 ASL Labs - WHMIS
- 1992 Hewlett-Packard - HP Columns
- 1992 Greiner, Bethell & Company - Expert Witness

REFERENCES

Available upon request