
ASA LOUIS

WASHINGTON STATE PATROL TOXICOLOGY LABORATORY
2203 AIRPORT WAY SOUTH
SEATTLE WA 98134
(206) 262 6100
asa.louis@wsp.wa.gov

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 (D-ABFT-FT) - 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

PRESENTATIONS

- 2017 WA TSRP – Toxicology and Marijuana Case Overview. Yakima
- 2016 WA Department of Licensing – Toxicology Laboratory Test Results. Tacoma
- 2016 WA Association of Prosecuting Attorneys – Uncertainty Levels and Mixed alcohol and Marijuana DUI. Leavenworth
- 2015 Pierce County Department of Assigned Council – Defending DUI's: Blood Testing and the Effects of Alcohol and Drugs, DRE. Tacoma
- 2015 WA Association of Prosecuting Attorneys – Mixed Ethanol and THC DUI's. Leavenworth
- 2015 Pierce County Prosecuting Attorney – Toxicology Laboratory Overview . Tacoma
- 2013 WA State Association of Municipal Attorneys – Prosecuting a Drugged Driver. Walla Walla
- 2013 Seattle Police Department DRE school – Toxicology Laboratory Overview. Seattle

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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

- 2017 Advances in Forensic Analyses: When to Use GC-MS/MS, LC-MS/MS and HRMS
- 2017 SOFT/ACCENT – Assessment and Comparison of Vitreous Humor as an Alternative Matrix for Forensic Toxicology
- 2016 SOFT/ACCENT – Analysis of Parent Synthetic Cannabinoids in Blood and Urinary Metabolites by Liquid Chromatography Tandem Mass Spectrometry
- 2016 SOFT/ACCENT – Retrospective Analysis Synthetic Cannabinoid Metabolites in Urine of Individuals Suspected of Driving Impaired
- 2016 SOFT/ACCENT – Thermal Degradation of Synthetic Cathinones
- 2015 UND School of Medicine - Death Investigation Advanced Topics
- 2015 UND School of Medicine - Death Investigation Cultural Competency
- 2015 UND School of Medicine - Death Investigation Basics
- 2015 UND School of Medicine - Death Investigation Mental Health First Aid
- 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)

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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