

# ASA LOUIS

Washington State Patrol Toxicology Laboratory  
2203 Airport Way South  
Seattle WA 98134  
(206) 262 6100  
asa.louis@wsp.wa.gov

## EMPLOYMENT HISTORY

### **Washington State Patrol**, Seattle WA

Forensic Scientist - Toxicology

Jan 2003 - May 2005, May 2006 – present

- Analyse forensic samples for presence of licit and illicit substances
- Prepare reports of findings, testify as an Expert Witness in courts of law pertaining to findings
- Maintain instrumentation, develop and/or refine analytical methodologies
- Participate in professional accreditation programs as a Technical Assessor (ANAB)
- Participate in professional accreditation programs as an Internal Auditor (ANAB)
- Train stakeholders via continuing education presentations regarding toxicology basics
- Develop curricula for understanding toxicology for non-scientists

### **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 and analyse samples for abusive and non-abusive substances
- Report forensic and clinical results
- Testify as an Expert Witness in courts of law pertaining to findings
- Maintain instrumentation, develop and/or refine analytical methodologies
- Accession forensic and clinical samples

### **ASL Laboratories**, Vancouver BC

Section Coordinator, Purchaser

May 1992 - Jun 1996

- Coordinate 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
- Emergency Spill Response Team Member

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## EMERGENCY MANAGEMENT HISTORY

**Northshore Emergency Management Coalition (NEMCo)**, Kenmore WA  
Community Emergency Response Team (CERT) volunteer: Nov 2015 - present  
Planning Section Chief (planned events): 2023 - present

- Lead training of new CERT participants
- NEMCo point of contact for Disaster Airlift Response Team (DART)
- Steering committee member
- Participate in continuing education, through local and FEMA sponsored courses
- Conduct and participate in drills for emergency preparedness
- Support community events, active shooter training

**South Snohomish County Fire/ Fire District 1**, Everett WA  
CERT Fire Corps volunteer  
Feb 2017 – present

- Aid in training new CERT participants
- Participate in continuing education, through local and FEMA sponsored courses
- Support community events, active shooter training

**Seafair Emergency Management Group**, Seattle WA  
Volunteer – Logistics, Medical  
May 2017 – present

- Support the equipment and transportation needs of the EMG
- Provide first-response level medical care to event guests, participants and staff
- Assist in event safety, crowd management, traffic control

## 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 ISO/IEC 17025:2017 Technical Assessor – 2019  
Forensic ISO/IEC 17025:2017 Internal Auditor – 2019  
Forensic Toxicology Specialist Certification (D-ABFT-FT) – 2010  
Washington State Blood Analyst Permit – 2003

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

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## 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 IL, Feb 2003

## EMERGENCY MANAGEMENT CERTIFICATIONS

Executive: (please contact for complete list)

ICS-300 Intermediate Incident Command System for Expanding Incidents  
ICS-400 Advanced Incident Command System for Complex Incidents  
IS-15 Special Events Contingency Planning For Public Safety Agencies  
K0146 Homeland Security Exercise and Evaluation Program  
MGT346 EOC Operations and Planning for All Hazards  
L489 Management of Spontaneous Volunteers in Disasters  
Search Management for the Initial Response Incident Commander  
Urban Search – Managing Missing Person Searches in the Urban Environment

Operations: (please contact for complete list)

Wilderness First Responder – NOLS  
Ham Radio Operator – General Class License  
Washington State Food Worker – Snohomish County Health  
Washington State Traffic Control Flagger  
Stop The Bleed – Harborview Medical Center  
PER213 Wide Area Search  
ATC20 Postearthquake Safety Evaluation of Buildings  
ATC45 Safety Evaluation of Buildings After Windstorms and Floods  
P-50 Simplified Seismic Assessment of Detached Wood-frame Dwellings  
Post Disaster Mental Health Support – Kirkland CERT

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## PRESENTATIONS

- 2024 Northwest Defenders Division – Introduction to the Toxicology Laboratory. Seattle
- 2023 WA TSRP – Introduction to the Toxicology Laboratory. Seattle
- 2021 WA TSRP – Introduction to the Toxicology Laboratory. Online
- 2019 WA TSRP – Effects of Alcohol and Marijuana. Tacoma
- 2018 WA Defenders Association – A View From the Lab: Test Blood For Drugs. Tacoma
- 2018 Pierce County Department of Assigned Council – Introduction to The Toxicology Lab.
- 2018 WA Association of Prosecuting Attorneys – DUI Bootcamp. Burien
- 2018 WA TSRP – THC and Toxicology; Fentanyl – a Primer. Yakima
- 2017 DEA – Drug Effects on Human Performance. Seattle
- 2017 Pierce County Department of Assigned Council – THC General Overview. Tacoma
- 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 Assn of Municipal Attorneys – Prosecuting a Drugged Driver. Walla Walla
- 2013 Seattle Police Department DRE school – Toxicology Laboratory Overview. Seattle

## RELATED SKILLS (Please contact for complete list)

Time of Flight Mass Selective Liquid Chromatography  
Tandem / Mass Selective Liquid Chromatography  
High Turbulence Liquid Chromatography  
Mass Selective Gas Chromatography  
Gas Chromatography – Flame Ionisation, Nitrogen Phosphorous, Electron Capture  
High Pressure Liquid Chromatography  
Solid Phase Extraction

## TRAINING (Please contact for complete list)

- 2019 ANSI National Accreditation Board – Technical Assessor Training Course
- 2019 ANSI National Accreditation Board – Internal Auditor Training Course
- 2015 UND School of Medicine - Death Investigation (Series)
- 2014 AAFS - Driving Under the Influence of Drugs
- 2012 West Virginia University - Ethics in Forensic Sciences
- 2011 Calif. Assoc. Toxicologists - Forensic Alcohol
- 2011 Washington State Patrol - Horizontal Gaze Nystagmus (Dr. K Citek)
- 2008 Seattle Police Dept. - Advanced Roadside Impaired Driving Enforcement
- 2007 Indiana University - The Effects of Drugs on Human Performance and Behaviour
- 2004 Seattle Police Dept. - DUI Detection and Standardized Field Sobriety Testing (NHTSA)
- 2003 Indiana University - Robert F Borkenstein course on Alcohol and Highway Safety
- 2003 Washington State Patrol - Standard Field Sobriety Test Training (Refresher)
- 2003 Washington State Patrol - Blood Alcohol Analyst
- 1992 Greiner, Bethell & Company - Expert Witness