



Colonel Ralph W. Powell
Director

Idaho State Police

Service Since 1939



C.L. "Butch" Otter
Governor

Delisa N. Downey

Forensic Scientist III / Toxicology Discipline Leader
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EDUCATION

- 2008 Sam Houston State University, Huntsville, Texas
Master of Science – Forensic Science
- 2002 Texas A&M University, College Station, Texas
Bachelor of Science – Biomedical Science

EXPERIENCE

- 01/2014–Present Idaho State Police Forensic Services
Toxicology Discipline Leader
Duties: all duties of forensic scientist (below), research new methods and instruments, design/perform/review validations, consult on design for new laboratory (including specifications for materials/equipment), annual toxicology report to State Legislature, annual discipline report to management, method review/revision, vendor evaluations, analytical method cost analysis
- 04/2014–07/2014 Idaho State Police Forensic Services
Pocatello Acting Laboratory Manager
Duties in addition to scientist and discipline lead duties: oversee day-to-day operations, address needs or issues as they arise, motivate staff
- 01/2009–12/2013 Idaho State Police Forensic Services
Forensic Scientist
Duties: alcohol and other volatiles analysis, urine toxicology analysis, blood toxicology analysis, internal assessor for toxicology, and peer review of toxicology and volatiles reports, supply purchasing, acting laboratory manager (as assigned)
- 01/2008–08/2008 Sam Houston State University
Independent Research
Supervised by Dr. Sarah Kerrigan

700 South Stratford Drive • Meridian, Idaho 83642-6251

EQUAL OPPORTUNITY EMPLOYER

Revised 6/9/15

Delisa N. Downey

06/2007–08/2007 Texas Department of Public Safety
Toxicology Intern

CERTIFICATIONS & AWARDS

October 2013 Fellow of the American Board of Forensic Toxicology (F-ABFT)

May 13, 2015 Forensic Scientist of the Year 2015
Awarded by: Idaho State Police and the Greater Pocatello Chamber of Commerce

May 16, 2012 Forensic Scientist of the Year 2012
Awarded by: Idaho State Police and the Greater Pocatello Chamber of Commerce

PROFESSIONAL ORGANIZATIONS

2007–Present Society of Forensic Toxicologists (SOFT)
Full Member (as of 2014)

04/2014–Present SOFT Young Forensic Toxicologists (YFT) Committee
Professional Development Fair Subcommittee

TESTIMONY

06/03/2015 Qualified as an expert in toxicology – Ada County, Idaho (Judge Cathleen MacGregor Irby)

08/20/2012 Qualified as an expert in toxicology and pharmacology – Canyon County, Idaho (Judge F Randall Kline)

CONTINUING EDUCATION; ASSOCIATION MEETINGS; CONFERENCES

2014

- ASCLD/LAB Assessor Training Course (Meridian, ID)
- Society of Forensic Toxicologists Meeting (Grand Rapids, MI)
 - Implementing the DUID Laboratory Recommendations Workshop
 - A Practical Approach to Calculating and Reducing Uncertainty of Measurement in the Laboratory Workshop
 - LC for the Forensic Toxicologist – Answers to 101 Questions Workshop
 - Advanced Applications of Excel Workshop
- Drug Facilitated Sexual Assault (SOFT Regional Workshop online)
- GC/MS Instrument Troubleshooting and Maintenance (MLS Technologies)

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- 2013
- Society of Forensic Toxicologists Meeting (Orlando, FL)
 - Pharmacology and Toxicology of Synthetic Cannabinoids Workshop
 - Marijuana: Old Drug, New Data Workshop
 - LC/MS/MS Validation of a Cannabinoid and Benzodiazepine Method with Comparison to the Proposed SWGTOX Method Validation Standards (RTI and Virginia DFS, online)
 - Supervisor's Academy (Northwestern University)
- 2012
- Society of Forensic Toxicologists Meeting (Boston, MA)
 - LC/MS/MS Method Development & Validation for Forensic Toxicology Applications
 - Polypharmacy & Human Performance in Antipsychotic Cases: Interpretation of Impairment or Impaired Interpretations
 - Laboratory Management for Dummies...and Smarties, Too! It's a Generational Thing!
- 2011
- Society of Forensic Toxicologists Meeting (San Francisco, CA)
 - Scientific Writing for Dummies and Smarties Too!
 - Publishing in Journals for Forensic Toxicologists
 - Solid Phase Extraction: Practices and Principles in Forensic Toxicology
 - LC-MS: Tips, Troubleshooting and Techniques
- 2010
- Postmortem Toxicology (Midwest Forensics Resource Center class)
 - Advanced Pharmacokinetics for Toxicologists: P-450 Isozymes & Drug-Drug/Food Interactions (Midwest Forensics Resource Center class)
 - Robert F. Borkenstein Course on the Effects of Drugs on Human Performance and Behavior (Indiana University)
- 2009
- Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation (Indiana University)
 - Digital Photography Crime Scene Training (FBI)
 - Ethics in Forensic Science (West Virginia University, online)
 - Courtroom Presentation of Evidence Workshop (Eugene, OR)
 - RTI Online Workshops
 - Uncertainty of Measurement in Forensic Toxicology (I, II, & III)
- 2008
- American Academy of Forensic Sciences Meeting (Washington, D. C.)
 - ChemStation Productivity Workshop
 - RTI Online Workshops
 - Fundamentals of LC/MS/MS
 - Z-drugs
 - Recent AAFS Presentations

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- Opioids and Pain Management
- Expert Testimony (I & II)
- Ethics
- ISO 17025
- Volumetric Measurements

2007 -Courtroom Testimony and Techniques Workshop (Huntsville, TX)

VALIDATIONS

- 2015
- Validation of new QQQ cannabinoids method (in process): urine, blood
 - Provided oversight for validation of new B-glucuronidase enzyme and shorter incubation time for QQQ benzodiazepines and/or z-drugs method: urine only
 - Provided oversight for validation of lower LOD for QQQ benzodiazepines and/or z-drugs method: urine, blood
 - Validated QQQ benzodiazepines and/or z-drugs method for increased sensitivity through decreased reconstitution solvent volume: urine, blood
 - Validated blood amphetamine/methamphetamine SPE method for scope change: addition of phenethylamines and pyrrolidinophenones to scope
- 2012
- Validated OraSure Barbiturates ELISA kits for screening of urine and blood on the Dynex DSX analyzer (primary validator; data analysis in conjunction with Toxicology Discipline Leader, Anne Nord)
 - Validated ELISA blood and urine screening method on Dynex DSX analyzer using OraSure immunoassay kits (primary validator; data analysis in conjunction with Toxicology Discipline Leader, Anne Nord)
- 2008
- Validation of Benzyl Carbamate as an appropriate internal standard for neutral drugs such as meprobamate and carisoprodol (primary validator; data analysis in conjunction with Dr. Sarah Kerrigan)
 - Preliminary validation of the extraction of 22 acidic, basic and neutral drugs from blood using solid phase extraction.

TEACHING; PRESENTATIONS

- 2014
- Provided training presentation for DRE school in Bonneville County (presented by Deputy Graham)
 - Training for Canyon County Prosecutors: Forensic Toxicology
 - POST Certified Instructor: Evidence Packaging and Handling class
- 2013
- Evidence Packaging and Handling classes
- 2012
- Forensic Toxicology (Women and Work Conference, ISU)
- 2009
- SANE-SART Presentation: Forensic Toxicology in Sexual Assault Cases

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RESEARCH; PUBLICATIONS

2009 “Technical Note: Quantitative Analysis of Carisoprodol and Meprobamate in Whole Blood Using Benzylcarbamate and Deuterated Meprobamate as Internal Standards.” **Downey**, Simons, Ota, Kerrigan, *Journal of Analytical Toxicology*, June 2009, Volume 33, Number 5, Pages 278-282.

2008 Capstone Research: “Screening and Determination of Twenty-Two Commonly Abused Basic, Acidic, and Neutral Drugs in Blood Using Solid-Phase Extraction and Gas Chromatography/Mass Spectrometry”

Inclusive in Capstone Research: Investigation of drug recovery utilizing various methods of organic and inorganic protein precipitation as compared to sonication of whole blood. Oversight provided by Dr. Sarah Kerrigan.

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