



Idaho State Police Forensic Services



Melissa (Nikka) Bradley

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Education:

- 2010 University of Utah- Salt Lake City, UT
Master of Science (MS) Chemistry
- 2007 Northern Arizona University- Flagstaff, AZ
Bachelor of Science (BS) Chemistry- American Chemical Society Certified
- 2005 Yavapai College- Prescott, AZ
Associates of Science (AS)

Experience:

- 9/2016- Present Idaho State Police Forensic Services
Alcohol and Controlled Substance Section
Forensic Scientist II
Duties: Controlled Substance analysis, Blood alcohol analysis,
Breath instrument calibrations, Regional Breath Testing
Coordinator (RBTC)
- 9/2014- 9/2016 Idaho State Police Forensic Services
Alcohol and Controlled Substance Section
Forensic Scientist I
Duties: Blood alcohol analysis, breath instrument calibrations,
Regional Breath Testing Coordinator (RBTC), marijuana analysis,
and controlled substance analysis trainee
- 5/2014- 8/2014 Volt Employment Agency
Temporary on-assignment
Analytical Chemist
- 8/2010- 5/2014 ARUP Laboratories
Biochemical Genetics Department
Technologist II, Senior

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

EQUAL OPPORTUNITY EMPLOYER

Revised 10/19/21

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- 1/2008- 7/2010 University of Utah
Chemistry Department
Graduate Research Associate
- 8/2007- 12/2007 University of Utah
Chemistry Department
General Chemistry Teaching Assistant
- 7/2005- 7/2006 Northern Arizona University
Chemistry Department
Undergraduate Researcher

Certifications:

- 2021 Board-certified American Board of Forensic Toxicology Diplomate Forensic Alcohol (D-ABFT-FA)
- 2020 Board-certified Drug Analysis Fellow American Board of Criminalistics (F-ABC)
Note: this was restructured by the organization to (ABC-DA)
- 2019 Board-certified Drug Analysis Diplomate American Board of Criminalistics (D-ABC)
- 2011 Board-certified American Society for Clinical Pathology in Chemistry C(ASCP)

Professional Organizations; Committees; Working Groups:

- 2019 Clandestine Laboratory Investigating Chemist (CLIC) Association
- 2019 Northwest Association of Forensic Scientist (NWAFS)
- 2017 The International Association for Chemical Testing (IACT)
- 2009 American Chemical Society (ACS) (expired)

Testimony:

I have testified in the following counties in Idaho: Twin Falls, Ada, Canyon, Bannock, Elmore, Fremont, Boise, Adams, Gooding

Continuing Education; Association Meetings; Conferences:

- 2021 ISP Supervisor Academy Supervision of Police Personnel (Northwestern University Center for Public Safety)
Reliable Quantification of THC in Chocolate and Identifying Fentanyl Analogs and Illicit Drugs (Webinar)
Recommended Specimens, Scope, Cutoffs, and Strategies for DUI/D Testing & the Impact of Stop Testing Limits (IACT virtual workshop)
Development and Validation: Plan, Execute, Succeed! (IACT virtual workshop)
Alcohol Concentration Extrapolation (IACT virtual workshop)
Better Than Managing: Generating Positive Results Through Effective Leadership (IACT virtual workshop)
Quality Assurance and Uncertainty of Measurement: Fundamentals and Implementation (IACT virtual workshop)
- 2020 California Association of Criminalists (CAC) Alcohol Impairment Workshop
Southwestern Association of Forensic Scientist (SWAFS) Virtual Symposium

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- Agilent Simple Strategies for GCMS Success (Webinar)
- Agilent: Building Blocks for a Robust GC Method (Webinar)
- Agilent Beginner's guide to GC Column Care and Installation (Webinar)
- Perkin Elmer Beginner's Guide to FTIR (Webinar)
- Establishing Impairment with a Focus on Inhalants (Webinar)
- Marijuana or Hemp: The Sequel (Webinar)
- Marijuana or Hemp (Webinar)

- 2019 POST Instructor Development
 - Breath Alcohol Ignition Interlock Device Programs (IACT)
 - Alcohol Concentration Extrapolation (IACT)
 - IACT Conference 2019 Plenary Sessions
 - Draeger Alcotest 9510 User Group meeting (IACT)
 - DEA Forensic Drug Chemistry Seminar (Special Testing and Research Laboratory, Sterling, VA)

- 2018 Northwest Association of Forensic Science (NWAFS) General Session
 - Latent Print Orientation and Search Clues (NWAFS)
 - Customer Service Training

- 2017 Gas Chromatography Mass Spectrometry (GCMS) Maintenance, Troubleshooting, Data analysis
 - Operation, Technical Aspects, Calibration & Basic Maintenance for the Guth Models 12V500 (Rev. A) & 2100 Simulators
 - Back to Basics: Alcohol Analysis in the Forensic Laboratory (IACT)
 - IACT Conference 2017 Plenary Sessions
 - Transitioning to the 2017 ANAB-ASCLD/LAB Accreditation Requirements for Calibration Laboratories (IACT)
 - Crucial Conversations

- 2016 Operator Trainer and Maintenance Technician Draeger Alcotest 9510
 - Northwest Association of Forensic Science (NWAFS) General Session
 - Hash Oil Extraction Systems (NWAFS)
 - Organic Chemistry Refresher (NWAFS)
 - Ethics and Bias in Forensic Science (NWAFS)
 - Headspace and GC Maintenance and Troubleshooting Course (MLS Technologies)
 - Defending the Breath Test Result (Webinar)

- 2015 Lifeloc FC20 Factory Training
 - Dräger Alcotest 9510 Training
 - Oral Fluid Analysis in Impaired Driving Investigations (Webinar)
 - Gas Chromatography Headspace (GCHS) Instrument Maintenance and Troubleshooting Class (MLS Technologies)
 - Courtroom Presentation of Evidence
 - Defending a Blood Test Result (Webinar)
 - Idaho State Police Blood Alcohol Analysis Training
 - Adobe Presenter Class
 - The Myth of the DUI Defense: Rising BAC (Webinar)

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- 2014 The Robert F. Borckenstein Course on Alcohol & Highway Safety: Testing, Research & Litigation (University of Indiana Bloomington, IN)
Plenary Session 3: Intersection of Law and Science in Their Pursuits of Justice and Truth (forensicEd online)
Ethics in Forensic Science (West Virginia University Extended Learning)
- 2009 237th Annual American Chemical Society (ACS) Conference
Salt Lake City, UT
Presenter (30 min)

Validations Completed:

2012 Collected data on a newly acquired Agilent gas chromatography-mass spectrometry (GCMS) for the validation of quantitation of organic acid plasmas at ARUP Laboratories. The following study included data acquired regarding accuracy, precision, linearity, and limits of quantitation. Shared samples were compared with a previously validated instrument to ensure consistency of clinical significance.

Teaching; Presentations:

- 2019 Draeger User Group Meeting Coeur d'Alene, ID IACT Conference
2017 Draeger Alcotest 9510 co-presenter Weiser PD/Washington CSO
2009 237th Annual American Chemical Society Conference
2007 General Chemistry II Teaching Assistant

Research; Publications:

Bradley, M M; Siperko, L M; Porter, M D "Colorimetric-solid phase extraction method for trace level determination of arsenite in water" *Talanta*, Vol. 86, Oct 2011: 64-70.