



Idaho State Police Forensic Services



Katherine (Katie) Maxfield
Forensic Scientist II
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Education:

Bachelor of Science in Biochemistry, University of Oklahoma 2017

Experience:

04/2021-Present Forensic Scientist II
Idaho State Police Forensic Services
Duties: Controlled Substances and Breath Alcohol Calibrations

01/2020-04/2021 Forensic Scientist I
Idaho State Police Forensic Services
Duties: Controlled Substances and Breath Alcohol Calibrations

04/2019-12/2019 Forensic Scientist I
Contractor with ProPeople Staffing Services working for Idaho State
Police Forensic Services
Duties: Controlled Substances

08/2017-03/2019 Intern
Ada County Sheriff's Office Crime Laboratory
Duties: Shadowed in controlled substances, crime scenes, and biology.
Performed research in presumptive tests for blood.

Certification/Memberships:

11/2022-present Certified by American Board of Criminalistics in Drug Analysis
09/2023-present Associate Member of Clandestine Laboratory Investigating Chemists
Association (CLIC)

Testimony:

I have testified regarding controlled substance analysis in Idaho district court in the following counties: Ada, Benewah, Bonner, Idaho, Kootenai, Nez Perce, and Shoshone.

Continuing Education; Association Meetings; Conferences:

09/2018 Northwest Association of Forensic Scientists Annual Conference; Boise, ID
Extraction Failures from Poorly Supported Semi-Automatic Pistols (8hrs)
Adobe Photoshop for Forensic Scientists (4hrs)

<https://isp.idaho.gov/forensics>
EQUAL OPPORTUNITY EMPLOYER

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General Session (12hrs)

09/2019 HPLC Training by Agilent; Couer d'Alene, ID

General Operation and Cannabis Specific Method (12hrs)

12/2019 GCMS Maintenance by Agilent; Meridian, ID

Operation, maintenance, and evaluation of GCMS (11 hrs)

08/2020 Open Lab Software by Agilent; Webinars

General Operation (2hrs)

Data Analysis (2 hrs)

Intelligent Reporting (1.5 hrs)

10/2020 California Association of Criminalists Alcohol Impairment Workshop; Virtual

Driving Impairment and SFSTs (4hrs)

Controlled Drinking Studies and Calculations (4hrs)

04/2021 International Association for Chemical Testing (IACT) Conference; Virtual

Quality Assurance and Uncertainty of Measurement: Fundamentals and Implementation (4hrs)

Recommended Specimens, Scope, Cutoffs, and Strategies for DUI/D Testing & the Impact of Stop Testing Limits (4hrs)

Development and Validation: Plan, Execute, Succeed! (4hrs)

Alcohol Concentration Extrapolation (4hrs)

Better Than Managing: Generating Positive Results Through Effective Leadership (4hrs)

06/2021 HPLC and Open Lab Software by Agilent; Meridian, ID

General Operation and Custom Report Generation (12hrs)

12/2021 The Robert F. Borkestein Course on Alcohol & Highway Safety: Testing, Research, & Litigation; Bloomington, IN

History of Alcohol Testing; Alcohol Chemistry, Pharmacology, and Physiology; The Measurement of Alcohol in Blood and Breath; Courtroom Testimony about Alcohol; and more (40hrs)

01/2022 Reliable Quantification of THC in Chocolate and Identifying Fentanyl Analogs and Illicit Drugs using MassHunter by Center for Forensic Science Research and Education (CFSRE) and Agilent; Virtual

How to extract cannabinoids cleanly from difficult matrixes and how to use MassHunter Unknowns Analysis to assist in coelution and identifying structural similarities (1.5hrs)

02/2022 MassHunter Unknowns Analysis for the Forensic Chemist Part I and Part II by Agilent; Virtual

How to use MassHunter Unknowns Analysis for forensic data analysis to include deconvolution and background subtraction (2.75hrs)

03/2022 Lifeloc FC20 and FC20BT Factory Training; Wheat Ridge, CO

Factory tour, instrument history, and how the instrument works (~12hrs)

07/2022 Internal Auditor Training by Seaglass Training; Virtual

Review of ISO/IEC 17025 (2017), A2LA R221, and ISO 19011 (20hrs)

10/2022 Southwestern Association of Forensic Scientists (SWAFS) Annual Conference; Henderson, NV

Comparing EtOH in 6mL and 10 mL grey top tubes statistically (4hrs)

Quality in Forensic Chemistry (4hrs)

Clean It Up: Extraction and Isolation Techniques for Seized Drugs (4hrs)

Methamphetamine Quantitation using the Magritek Spinsolve NMR (2hrs)

Cultivating Justice: How to Grow New Cannabis Methods for Your Lab (2hrs)

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Nevada Board of Pharmacy (1hr)

Las Vegas Community Impact Initiative - Overdose Response Team (1hr)

02/2023 Basic Bloodstain Pattern Recognition Course; Meridian, ID (40 hrs)

Presented by Craig C. Moore with See More Forensics. The course covered the fundamentals of bloodstain pattern analysis to include the history and theory behind the analysis.

10/2023 Southwestern Association of Forensic Scientists (SWAFS) Annual Conference; Houston, TX

Electron Ionization Mass Spectral Interpretation (8hrs)

Biosurveillance 2023: Tracking changes in drug markets through chemical and toxicological testing (4hrs)

Drug/tox trends in the medical field (4hrs)

Forensic Roundtable (2.5hrs)

Validations:

09/2019-03/2020 Assisted in the method development and validation of determining total THC by HPLC. Duties included running temperature studies, running practice samples, and developing the report template for the data.

Teaching; Presentations:

09/2018 The Effects of Bluestar on Presumptive Tests for Blood

Northwest Association of Forensic Scientists Annual Conference, Boise, ID

10/2019 Presumptive Tests for Blood and Careers in Forensic Science

Women in Science at North Idaho College, Coeur d'Alene, ID

Research; Publications:

Martin, Katherine. "The Effects of Bluestar on Presumptive Tests for Blood." *Crime Scene*, vol. 44, no. 1, Feb. 2019, pp. 8–13.