**Name: Derek Walton Date of Last Update: 4/26/2024**

**Job Title: Forensic Scientist 4 – Chemistry Supervisor**

**Indicate all disciplines in which you currently perform testing or calibration work:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Seized Drugs** |  |  | **Blood Alcohol (Toxicology – Testing)** |
|  | **Biology** |  |  | **Firearms/Toolmarks** |
|  | **Latent Prints (Friction Ridge)** |  |  | **Crime Scene** |
|  | **Breath Alcohol (Toxicology - Calibration)** |  |  | **Impressions (Footwear)** |

**For each discipline checked in the table above, list all categories in which you perform work:**

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| --- |
| Breath Alcohol Calibration, Blood/Beverage Alcohol Quantitation, Seized Drugs Technical Review |

**Education:** List all higher academic institutions attended (list high school only if no college degree has been attained)**.**

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| --- | --- | --- | --- |
| Institution | Dates Attended | Major | Degree Completed |
| Kalamazoo College | 2006 – 2010 | Chemistry | Bachelor’s |

**Continuing Education:**  List formal coursework, conferences, workshops, in-service and other training received applicable to past and current forensic related positions.

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| Course Title | Source of Training | Date(s) of Training |
| Controlled Substances Training Program | State of Alaska Scientific Crime Detection Laboratory | 10/14 – 6/15 |
| “Chemistry in the Courtroom: Demystifying Science for Judge and Jury” | Justice Clearinghouse Webinar | 02/19/15 |
| Drug Trends in AK; Marijuana Legalization in CO | DRE In-Service Training Program | 03/02 – 03/03/15 |
| Clandestine Laboratory Safety Refresher Training | Alaska Scientific Crime Detection Laboratory | 04/01/15 |
| “Legal” Drug Use Through Chemistry: An Overview of the Synthetic Drug Dilemma | Justice Clearinghouse – Online | 04/16/15 |
| Controlled Substances Actions on Human Physiology | Department of Health and Social Services presentation at the DEA Basic Course | 04/19/16 |
| “Unveiling the Mysteries Behind HPLC and GC Resolution: From Theory to Practice in 30 minutes” | American Chemical Society – Online | 09/15/16 |
| A Better Understanding of Cannabis Chemistry to Aid in Vapor Phase Detection | National Institute of Standards and Technology (NIST) – Online | 11/08/16 |
| Nuclear Magnetic Resonance (NMR) in Forensic Drug Analysis | National Institute of Standards and Technology – Online | 11/08/16 |
| RamTest-CSI Handheld Raman Analyzer: New Technology for Public Safety | International Public Safety Association – Online | 11/14/16 |
| Latent Print Processing Training Program | State of Alaska Scientific Crime Detection Laboratory | 09/16 – 01/17 |
| “Leadership and Communication” | The Growth Company | 04/25/17 |
| TruNarc Analyzer Operational Training | Thermo Scientific – Online | 05/02 – 05/22/17 |
| Naloxone Training and Opioid Rescue Kits | Alaska Department of Public Safety | 05/24/17 |
| Bath Salts and Synthetic Drugs Workshop | Alaska Department of Public Safety | 06/22/2017 |
| “Science in the Courtroom: A Legal, Practical, and Evidence-Based Guide for the Forensic Scientist” | Val Van Brocklin, former Alaska District Attorney, via State of Alaska Scientific Crime Detection Laboratory | 08/16 – 08/17/17 |
| Datamaster DMT Supervisor Training Program | State of Alaska Scientific Crime Detection Laboratory | 08/22 – 08/24/17 |
| Forensic Alcohol Training Program | State of Alaska Scientific Crime Detection Laboratory | 07/17 – 06/18 |
| One Agilent Seminar | Agilent Technologies | 09/20/17 |
| Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation | Indiana University – Center for Studies of Law in Action | 12/03 – 12/08/17 |
| Synthetic Drug Threats in the United States: 2018 Update | National Drug Early Warning System (NDEWS)/ National Institute on Drug Abuse (NIDA) | 04/18/18 |
| The Synthetic Drug Crisis, Sessions I and II | National Institute of Justice (NIJ), RTI International | 07/17 – 07/18/18 |
| Intoximeters DMT Maintenance School | Intoximeters, Inc. | 04/15 – 04/17/19 |
| Forensic ISO/IEC 17025:2017 Internal Auditor Training | ANSI Nation Accreditation Board (ANAB) | 06/17 – 06/20/19 |
| Dani DiscovIR GC-FTIR Manufacturer Training | Spectra Analysis | 07/11/19 |
| Simple, Accurate and Reliable Quantification of THC and CBD in Cannabis-Infused Chocolate Edibles, baked goods and Candies. | Agilent Technologies | 01/19/21 |
| AAFS Workshops #7, #11, and #17: DART-MS, NPS, and Hemp/Marijuana Differentiation, respectively | American Academy of Forensic Sciences | 02/15 – 02/16/21 |
| Structural Characterization of Emerging Synthetic Drugs by Mass Spectrometry | Forensic Training Center of Excellence webinar | 03/05/21 |
| “Minimizing Bias and Enhancing Forensic Decision Making” | Dr. Itiel Dror | 03/17/21 |
| 2021 International Association of Chemical Testers Virtual Conference | International Association of Chemical Testers | 04/12 – 04/16/21 |
| Synthetic and Emerging Drug Trends | 908 Devices (MX908 Manufacturer) | 06/08/21 |
| ANAB Technical Assessor Training | ANSI National Accreditation Board (ANAB) | 12/06 – 12/10/21 |
| Seized Drugs Literature Review – Agilent GCMS Backflush | State of Alaska Scientific Crime Detection Laboratory | 02/15/22 |
| Effects of Scheduling on the Rise of Novel Synthetic Opioids from Fentanyl to its Analogs to the Nitazenes | Center for Forensic Science Research and Education | 04/01/22 |
| Seized Drugs Literature Review – “Weighing the Right Way” | State of Alaska Scientific Crime Detection Laboratory | 04/12/22 |
| Forensic Alcohol Literature Review – Retrograde Extrapolation | State of Alaska Scientific Crime Detection Laboratory | 05/10/22 |
| Alcohol and Traffic Safety: A Selective Review – Webinar | National Safety Council Alcohol, Drugs, and Impairment Division (ADID) | 08/18/22 |
| 2022 Clandestine Laboratory Investigation Chemists (CLIC) Annual Technical Seminar and Workshop | Clandestine Laboratory Investigation Chemists (CLIC) | 09/05 – 09/10/22 |
| An Introduction to ANSI/ASB Standard 036:  Standard Practices for Method Validation in Forensic Toxicology - Webinar | American Academy of Forensic Sciences (AAFS) and Academy Standards Board (ASB) | 10/21/22 |
| Forensics@NIST2022 Cannabis Workshop | National Institute of Standards and Technology – Online | 11/14/22 |
| Root Cause Analysis - Being Effective in Corrective Action & Why Blaming the Individual Misses the Point | Seaglass Training | 05/09/23 |
| Off-Cycle Performance Management Workshop | State of Alaska – Department of Administration | 07/27/23 |
| American Society of Crime Lab Directors (ASCLD) Annual Symposium | American Society of Crime Lab Directors (ASCLD) | 04/28 – 05/02/24 |

**Testimony:** Complete the information below for testimony provided.

|  |  |  |
| --- | --- | --- |
| Discipline or Category of Testimony | Period of Time in Which Testimony Occurred | Approximate Number of Times Testified |
| Seized Drugs | 2016 – 2020 | 9 |
| Forensic Alcohol | 2018 – 2024 | 20 |

**Professional Affiliations:** List professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

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| --- | --- | --- |
| Organization | Period of Membership | Offices or Positions Held/Dates |
| American Academy of Forensic Sciences (AAFS) | 02/16 – Present |  |
| International Association of Chemical Testers (IACT) | 05/18 – 04/19 |  |
| ANSI-ASQ National Accreditation Board (ANAB) | 12/21 – Present | ANAB Technical Assessor |

**Employment History:** List all scientific or technical positions held, particularly those related to forensic science. **List current position first.**

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| **Job Title** | Forensic Scientist 4 | **Tenure** | 08/2022 – Present |
| **Employer** | Alaska Scientific Crime Detection Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Chemistry Discipline Supervisor; Scientific Director of the Alaska Breath and Blood Alcohol Testing Program; Seized Drugs Technical Lead; ANAB Technical Assessor, Oversee Forensic Scientists in Chemistry in their job responsibilities including training, casework, testimony, outreach, and continuing education; Evaluate national forensic standards for implementation; Perform seized drugs analysis as well as blood and beverage alcohol quantitative analysis; Maintain and repair evidential breath test instruments; Train breath test supervisors and prepare operator training materials; Certify Datamaster DMT instruments for continued evidential use in the State; Testify to analytical findings in court; Perform technical and administrative review of controlled substances reports, quantitative blood and beverage alcohol reports, and breath test instrument documentation generated by other trained forensic scientists; Maintain documentation associated with the statewide breath alcohol testing program; Maintain analytical instrumentation; Analytical instrument and method validation; Revise controlled documents; Administer the Seized Drugs Retesting and Chemistry Performance Monitoring programs | | | |

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| **Job Title** | Forensic Scientist 3 (III) | **Tenure** | 11/2017 – 08/2022 |
| **Employer** | Alaska Scientific Crime Detection Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Perform seized drugs analysis as well as blood and beverage alcohol quantitative analysis, Maintain and repair evidential breath test instruments, Train breath test supervisors and prepare operator training materials, Testify to analytical findings in court, Perform technical and administrative review of controlled substances reports, quantitative blood and beverage alcohol reports, and breath test instrument documentation generated by other trained forensic scientists, Maintain documentation associated with the statewide breath alcohol testing program, Maintain analytical instrumentation, Analytical instrument and method validation, Oversee Seized Drugs analyst training, Revise controlled documents, Administer the Seized Drugs Retesting and Performance Monitoring programs, ANAB Technical Assessor | | | |

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| **Job Title** | Forensic Scientist 2 (II) | **Tenure** | 11/2015 – 11/2017 |
| **Employer** | Alaska Scientific Crime Detection Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Perform controlled substances analysis, Process items to develop and digitally preserve latent prints, Testify to findings in court, Perform technical and administrative review of controlled substance reports generated by other trained forensic scientists, Maintain analytical instrumentation | | | |

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| **Job Title** | Forensic Scientist 1 (I) | **Tenure** | 10/2014 – 11/2015 |
| **Employer** | Alaska Scientific Crime Detection Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Perform controlled substances analysis, Testify to findings in court, Maintain analytical instrumentation | | | |

**Other Qualifications:** List below all personal certifications identifying the issuing organization and the dates; all scientific publications and/or presentations you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualifications.

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| --- |
| Alaska Police Standards Council – Certified Instructor since 10/30/2019  **Law Enforcement Training Provided:**  04/2016 – Drugs in Alaska; Color Testing of Controlled Substances, DEA Basic Course, Alaska State Crime Lab (2 hours)  01/2018 – Alcohol Physiology and Pharmacology; Evidence Submissions, Breath Test Supervisor School, Alaska State Crime Lab (1.5 hours)  10/2018 – Alcohol Physiology and Pharmacology; Evidence Submissions, Breath Test Supervisor School, Alaska State Crime Lab (1.5 hours)  01/2019 – Alcohol Physiology and Pharmacology; Evidence Submissions, Hands-on Intox DMT Use, Breath Test Supervisor School, Alaska State Crime Lab (2.5 hours)  10/2019 – Alcohol Physiology and Pharmacology; Evidence Submissions, Status Messages, Supervisor Forms, Breath Test Supervisor School, Alaska State Crime Lab (3 hours)  08/2021 – Evidence Submissions, IR Theory, Incomplete Status Message, Menu Options Activity, Blood/Breath Study, Operator Training, Mock Trial Presentations, Breath Test Supervisor School, Alaska State Crime Lab (5 hours)  11/2021 – DMT Setup, Intro to Datamaster DMT, Menu Options, Invalid Status Message, Verification of Calibration, QA of the Program, Calibration and Certification, Blood/Breath Study, Operator Training, Mock Trial Presentations, Breath Test Supervisor School, Alaska State Crime Lab (7 hours)  02/2022 – Ethanol Physiology and Pharmacology, Intro to Datamaster DMT, Menu Options, Status Messages with Troubleshooting, Supervisor Forms and Records Update, Operator Training, Mock Trial Presentations, Breath Test Supervisor School, Alaska State Crime Lab (6 hours)  10/2022 – Introduction and Pretest, Alcohol Testing Program Manual and Website, Breath Program Update, Ethanol Physiology and Pharmacology, QA of the Subject Test, Status Messages with Troubleshooting, Supervisor Forms and Operator Record Update, Day 3 Quiz and questions, Mock Trial Presentations, Exam Grading (7 hours)  02/2023 - Introduction and Pretest, Alcohol Testing Program Manual and Website, Ethanol Physiology and Pharmacology, Breath Program Update, Day 2 Quiz, Status Messages with Troubleshooting, Supervisor Forms and Operator Record Update, Interference Detected, QA of the Program, Day 3 Quiz, Mock Trial Presentations, Exam Grading (9 hours)  Breath Test Operator Online Training instructor (~2 hours per session) – 11/4/20, 1/5/21, 2/21/21, 5/4/21, 7/8/21, 9/7/21, 10/5/21, 01/20/22  **Criminal Justice Training Provided:**  11/2021 – Seized Drugs Program Overview, Challenges of Synthetic Drugs, Forensic Science Academy, Alaska State Crime Lab (0.5 hours)  12/2022 – Seized Drugs Program Overview, Challenges of Synthetic Drugs, Marijuana and THC Product Identification, Drug Toxicology Program, Forensic Science Academy, Alaska State Crime Lab (1.5 hours)  **Other:**  Controlled Substances Advisory Committee guest speaker representing the Alaska State Crime Lab  ANAB Technical Assessments: 1 |