



Deborah Stonebarger, BS
CURRICULUM VITAE
August 2, 2024

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EXPERIENCE SUMMARY

Criminalistics Subject Matter Expert with experience in crime scene investigation, evidence collection and analysis, forensic firearms analysis, DNA and biological fluids, controlled substances, forensic alcohol analysis and impairment, forensic laboratory quality control, forensic laboratory policies and procedures, and casework auditing.

Certificates and Licenses (Past and Present)

Private Investigator Qualifying Party, **Arizona Department of Public Safety**, License 1757990; 2022-present

Security Guard, Unarmed, **Arizona Department of Public Safety**, 2016-2022

Certified by the American Board of Criminalistics (ABC) in Comprehensive Criminalistics, Diplomate status;
Certificate number 2468, 2014-2019

Forensic Alcohol Supervisor, **California Department of Public Health**

*2014-2016 while at the California Department of Justice Redding Laboratory

*2004-2014 while at the DOJ Eureka Laboratory

Membership in Professional Societies (Past and Present)

Arizona Association of Licensed Private Investigators (AALPI), since 2021

*Currently serving as Secretary on the Board of Directors

Previously served as Member At Large

Arizona Attorneys for Criminal Justice (AACJ), Associate Member since 2022

Arizona Paralegals Association, Associate Member since 2024

California Association of Licensed Investigators, Associate Member since 2023



California Attorneys for Criminal Justice, Associate Member since 2024

National Association of Forensic Science Boards, Associate Member since 2024

Texas Association of Licensed Investigators, Associate Member since 2023

American Academy of Forensic Sciences (AAFS), Fellow 2016-2018, Member 1999-2015

*Attendee of the AAFS International Outreach in Italy; 2008

*Moderator at the AAFS 2010 annual conference

*Abstract reviewer and moderator at the AAFS 2014 annual conference

*Moderator at the AAFS 2015 annual conference

California Association of Criminalists, Member 2003-2016

*Served on the New Member Committee

Association of Firearms and Toolmark Examiners (AFTE) 2010-2014

American Board of Criminalistics (ABC), Diplomate 2014-2019

*Served on the membership review committee 2016

Court Testimony Experience

- Qualified as an expert witness in the discipline of biology in the Superior Courts of Del Norte, Humboldt, Placer, Siskiyou, and Yolo Counties in California
- Qualified as an expert witness in the discipline of forensic alcohol analysis including impairment/opinion testimony in the Superior Courts of Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Shasta, and Siskiyou Counties in California.
- Qualified as an expert witness in the discipline of crime scene in the Superior Courts of Humboldt, Del Norte, and Mendocino Counties in California.
- Qualified as an expert witness in the discipline of forensic firearms analysis in the Superior Courts of Humboldt, Mendocino, and Sonoma Counties in California.
- Qualified as an expert witness in the discipline of controlled substances in the Superior Courts of Lassen, Shasta, Tehama, and Trinity Counties in California.



Presentations and Publications

- Author of *Why A Criminalistics Expert Can be Helpful to Criminal Defense Investigations*; Working PI Magazine, Spring 2024, Vol 6
- Author of *Forensic Firearms Facts for Investigators*; Working PI Magazine, Summer 2024, Vol 7
- Presenter of The Role of the Criminalistics Expert in Criminal Defense Cases, Arizona Public Defenders Association 2024 Conference, June 20, 2024
- Presenter AALPI Spring Training, April 2023: *Hunting a Hunter: The Search for Aaron Bassler*
- Presenter AALPI Spring Training, May 2024: *The Role of the Criminalist Expert in Investigations*
- Presenter to the Criminalistics Section at the AAFS 2015 annual conference: "The Hunt for Aaron Bassler: A Multidisciplinary Criminalistics Case Study Incorporating Proper Crime Scene Evidence Collection, DNA, Officer-Involved Shooting, and Firearms Comparison."
- *Presenter to the Toxicology Section of the AAFS 2015 annual conference: "The Egg Roll Driving Under the Influence (DUI) Defense: A Unique DUI Defense Incorporating Slow Gastric Emptying Due to the Presence of Egg Rolls, Followed by Rapid Gastric Emptying Due to Vehicle Collision."
- Presenter "Real Life Rambo: The Hunt for Aaron Bassler" California Association of Criminalists conference, 2014

Other

- Analysis of more than 1000 blood samples for the presence of alcohol, more than 1000 sexual assault cases, more than 100 crime scenes, more than 50 firearms cases, and more than 750 controlled substance cases.
- Regular technical review for biology, firearms, crime scene, and alcohol casework.
- Forensic laboratory Quality Control (QC) including quality audits for multiple California Department of Justice laboratories and audit trails in the disciplines of biology, DNA, firearms, crime scenes, blood alcohol analysis, and controlled substances.
- Member of the Humboldt County Sexual Assault Response Team (SART) 2009-2013, including holding the position of Co-Chair in 2013.
- California Department of Justice Eureka laboratory liaison for the Humboldt County Investigator's meetings 2011-2012.
- Served on the following Technical Advisory Groups (TAGs) for the California Department of Justice: Forensic Alcohol Analysis, Firearms, Health and Safety
- Participant in numerous California Department of Justice alcohol correlation studies at multiple DOJ laboratories
- Two-time recipient of the California Attorney General Team Award
- Eureka Laboratory Employee of the Month
- Emails, phone calls, and letters of commendation from attorneys in Del Norte, Humboldt, Mendocino, and Siskiyou Counties in California as well as officers in California, Arizona, and Texas



Relevant Training Experience

- Comprehensive training of more than 700 officers in the use of the Evidential Portable Alcohol System/Draeger 7410+ (EPAS) and the Portable Evidential Breath Testing/Draeger 7510 (PEBT) System.
- Training of more than 100 officers in basic evidence collection procedures
- Educating Deputy District Attorneys in Del Norte, Humboldt, Mendocino, and Shasta Counties of California regarding alcohol impairment and blood and breath alcohol result analysis.
- Public education and outreach at multiple schools as well as public service organizations

Structured Courses, Workshops, and Training

Private Investigator and Criminalistics Expert Continuing Education

How the Private Investigator Assists Attorneys; AALPI, 2022

30-Year-Old Case Study; AALPI, 2022

Legal Updates; AALPI, 2022

What a Defense Attorney Needs from a Private Investigator; AALPI, 2022

You Have Not, Because You've Asked Not-Case Study; AALPI, 2022

Digital Forensics Overview: A Practical Guide for Private Investigators; AALPI, 2022

Deoxyribonucleic Acid and the Private Investigator; AALPI, 2022

Social Media Capturing and Considerations for Private Investigators; AALPI, 2023

AACJ Winter Seminar 2023

AALPI Spring Training: Hunting a Hunter: In Search of Aaron Bassler; **INSTRUCTOR**; AALPI 2023

Cell Phone Forensics; AALPI, 2023

Legal Updates, AALPI; 2023

LPR Uses for Private Investigators; AALPI, 2023

Asset Investigations; AALPI, 2023

Human Trafficking 101 & Case Study; AALPI, 2023

60 Data Sources in 60 Minutes; AALPI, 2023

Operating a PI Business; AALPI, 2023

Domestic Background Checks; Heatherington Group, 2023

Google Dorking; Heatherington Group, 2023

So You Think You Can Google, 2024



California Association of Criminalists DNA Study Group, 2024
California Association of Criminalists Southern California Conference, 2024
Arizona Public Defenders Association 2024 Conference

General

Courtroom Presentation of Evidence; California Criminalistics Institute (CCI) Sacramento, 2002
Technical Writing for the Criminalist; CCI Sacramento, 2003, 2006
Forensic Alcohol Supervisor; CCI Sacramento, 2004
Laboratory Safety Officer; CCI Sacramento, 2004
Forensic Science Overview; CCI Sacramento, 2005
Ethics in Forensic Science; DOJ Redding laboratory, 2011
Foundational Skills for Future Supervisors; Office of Professional Development Sacramento, 2014
Forensic Statistics; CCI Rancho Cordova, 2015
Essential Analytical Skills; Office of Professional Development Sacramento, 2015
Advanced Roadside Impaired Driving Enforcement (ARIDE); California Highway Patrol Redding, 2015

Biology

Basic Forensic Serology; CCI Sacramento, 2002
Basic Practical Microscopy; CCI Sacramento, 2002
Forensic Hair Examination; DOJ Chico laboratory, 2003
Hair Identification and Comparison; CCI Sacramento, 2008
Evidence Handling and Touch DNA; DOJ Eureka laboratory, 2010

Chemistry

Interpretation of Infrared Spectra; CCI Rancho Cordova, 2015
Testing and Toxicology of Designer Drugs; CAC Spring Seminar, Ventura, 2015
Analysis of Designer Drugs Using Complementary Analytical Techniques; CAC Spring Seminar, Ventura, 2015

Crime Scene

Crime Scene Investigation I; CCI Sacramento, 2001
Crime Scene Investigation II; CCI Rancho Cordova, 2002
Fundamentals of Forensic Photography; CCI Rancho Cordova, 2002
Pathology of Wounds; CCI Sacramento, 2003
Bloodstain Pattern Interpretation; CCI Sacramento, 2005
Shooting Incident Reconstruction; CCI Concord, 2009



Footwear Impression Evidence; CCI Los Angeles, 2010
Detection and Recovery of Footwear and Tire Impression Evidence; CCI Rancho Cordova, 2014

DNA

Intro to DNA, CAL-DNA Databank Program; Berkeley, 2001
STR I, CAL-DNA Databank Program; Berkeley, 2001
STR II, Cal-DNA Databank Program; Berkeley, 2001

Firearms and Toolmarks

Firearm Safety; CCI Vandenberg AFB, 2001
Firearms and Toolmarks Introduction n II; CCI Sacramento, 2006
Firearms Special Topics: Smith and Wesson Revolvers; CCI Sacramento, 2006
Firearms Special Topics: Smith and Wesson Pistols; CCI Sacramento, 2006
Firearms Special Topics: Black Powder and Shotgun; CCI Sacramento, 2006
Serial Number Restoration; CCI Sacramento, 2006
Firearms Academy Practical Exercises; CCI Sacramento, 2007
Firearms Factory Tours; CCI California, Nevada, Arizona, Utah, 2006
M16 Certification; Long Mountain Outfitters Nevada, 2006
AK47 Certification; Long Mountain Outfitters Nevada, 2006
Toolmark Comparison Criteria; CCI Sacramento, 2007
Gunshot Wounds – Theory and Practice; AAFS annual conference Seattle, 2010
Glock Armorer’s Course; Eureka, 2010
Fundamental Manufacturing Processes; CCI Sacramento, 2010
Toolmark Comparison Criteria Refresher; CCI Sacramento, 2010

Education

Bachelor of Science in Biological Sciences with a minor in Chemistry from California State University, Chico; 1999

Employment History

December 2022-Present: **Criminalistics Subject Matter Expert** and **Owner** of Analytic Investigations (AZ DPS License 1757989)

Private Investigator Qualifying Party license 1757990 with Arizona Department of Public Safety. In addition to administrative duties as a small business owner, duties include meticulous review of legal, police, scientific forensic and laboratory reports, medical reports, and other discovery documents for purposes of assisting with legal defense. Provide written reports and expert witness testimony as needed.



January 2022-December 2022: **Courtroom Clerk** with Maricopa County Superior Criminal Courts

Duties included keeping notes and time for hearings for Judge and Commissioner calendar matters, minute entry writing, physical and electronic filing of legal documents, exhibit creation/control/tracking, assist Judge and Commissioners with eSentencing, issue and quash bench warrants.

November 2016-September 2022: **Supervisor** with S.A.F.E. Management of Arizona

Unarmed Security Guard license with Arizona Department of Public Safety. Duties included being an ejections specialist working with S.A.F.E. Management security, Arizona Cardinals security, ASM Global Management security, and on-site Arizona Department of Public Safety officers to control, report on, and eject guests in violation of NFL/Stadium Code of Conduct or Arizona Penal Code. Thorough, detailed written reports and radio communications regarding security and medical incidents at State Farm Stadium. Supervise crews of 5-20 security guards and/or team members, providing crew with effective communication, support, and service. Inspection of guests entering State Farm Stadium including bag check, magnetometer, and physical inspection. Supervision, security, asset protection, and inspections were also provided at Super Bowl 51 in Houston, TX and 52 in Minneapolis, Minnesota. Held **Security Guard Unarmed** license from Arizona Department of Public Safety from 2016-2022

April 2018-January 2022: **Private Investigator** with DiCarlo and Associates DBA Walcker Investigations/Walcker Investigations, LLC

Private Investigator license with Arizona Department of Public Safety. Duties included background investigation and research, public records review, witness location, subject interviews for parties involved in criminal matters for the Maricopa County Public Defender's office, which appointed Walcker Investigations. Review of legal, police, medical, and scientific forensic laboratory reports, as well as other discovery. Subpoena service. Report writing assimilating research and analysis for attorneys, clients, and other members of the law enforcement community.

September 2013-September 2017: **Private Investigator** with Stonebarger Investigations

Duties included background investigation, research, and public records review regarding clients, witnesses, and other parties involved in criminal and civil lawsuits. Subject location and interviews.



Review of legal, police, medical, and scientific forensic laboratory reports, and other discovery. Crime scene investigation and reconstruction. Expert witness testimony.

December 2000 through August 2016: **Senior Criminalist** with the California Department of Justice

**Senior Criminalist* at the DOJ Redding Laboratory January 2014-August 2016

Duties at the Redding Laboratory included analysis of blood and urine samples for the presence of ethanol via headspace gas chromatography. Management and maintenance of the Draeger 7510 Portable Evidential Breath Testing (PEBT) system which includes: training officers to use and maintain the instrument in the field, training new lab staff to use and maintain the instrument, being a custodian of all records associated with the PEBT system, and advanced maintenance of the PEBT system. Biology casework including identification of bodily fluids such as blood, semen, and saliva using direct and alternate light sources, chemical analyses, microscopic, and computer-assisted analyses. Hair screening cases which include analysis of hairs to determine if they are human, animal, or possible fiber via microscopy.

Crime scene response and analysis which included proper scene documentation, proper evidence identification and packaging, bloodstain pattern recognition, wound pathology, autopsy attendance, and shooting incident reconstruction. Analysis of controlled substances such as methamphetamine, cocaine, heroin, marijuana, mushrooms, prescription drugs, designer drugs, steroids, etc. via gas chromatography/mass spectrometry (GCMS) including liquids and solids. Preparation of reagents and standards related to biology, crime scene, forensic alcohol analysis, and controlled substances disciplines. Quality control checks and maintenance of equipment and reagents related to biology, crime scene, forensic alcohol analysis, and controlled substances disciplines.

Education of officers and deputy district attorneys regarding analyses. Expert testimony in all areas of proficiency. Evidence receipt and log-in with proper chain of custody. Train and supervise new employees in the forensic alcohol, biology, crime scene, and controlled substances disciplines. Train new employees in courtroom testimony via having them directly observe me in court and discussion afterward. Audit trails in the alcohol, controlled substance, and DNA disciplines.

Technical review of casework in alcohol, biology, and crime scene disciplines. Administrative review for all casework disciplines. Public outreach and education.



**Criminalist and Senior Criminalist at the DOJ Eureka Laboratory 2001-2013*

Duties at the Eureka Laboratory included analysis of blood and urine samples for the presence of ethanol via headspace gas chromatography. Management and maintenance of the Draeger 7410+ Evidential Portable Alcohol Testing System (EPAS) and the Draeger 7510 Portable Evidential Breath Testing (PEBT) system which includes: training officers to use and maintain the instruments in the field, training new lab staff to use and maintain the instruments, being a custodian of all records associated with the EPAS and PEPT systems, advanced maintenance of the EPAS and PEPT systems. Biology casework which includes identification of bodily fluids such as blood, semen, and saliva using direct and alternate light sources, chemical analyses, microscopic analyses, and computer-assisted analyses. Hair screening cases which include analysis of hairs to determine if they are human, animal, or possible fiber via microscopy.

Crime scene response and analysis which included proper scene documentation, proper evidence identification and packaging, bloodstain pattern recognition, wound pathology, autopsy attendance, and shooting incident reconstructions. Firearms analysis and comparison including "no-gun" cases, firearms function checks, use of the General Rifling Characteristics (GRC) database, chemical analyses, and microscopic analyses for comparison of firearms and fired components such as bullets, cartridge cases, and shell cases. Preparation of reagents and standards related to biology, crime scene, forensic alcohol analysis, and firearms disciplines. Quality control checks and maintenance of equipment and reagents related to biology, crime scene, forensic alcohol analysis, and firearms disciplines. Education of officers and deputy district attorneys regarding analyses. Expert testimony in all areas of analysis of proficiency. Evidence receipt, log-in, evidence return with proper chain of custody. Train and supervise new employees in the forensic alcohol, biology, and crime scene disciplines. Train new employees in courtroom testimony. Audit trails in alcohol, biology, firearms, and crime scene disciplines. Technical review of casework in alcohol, biology, firearms, and crime scene disciplines. Administrative review for all casework disciplines. Public outreach and education.

**Lab Technician Criminalistics and Criminalist at the DOJ DNA Databank in Berkeley, CA September 2000-August 2001*

My duties at the DNA Databank included, but were not limited to: Logging in blood samples from California Prison inmates; data entry regarding DNA samples processed for state databank; extraction, amplification, electrophoresis, and DNA analysis of blood samples for the state database