

Forensic Services

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FORMAL EDUCATION:

1971: University of Washington; Bachelor Degree in Chemistry; Seattle, WA

PROFESSIONAL EXPERIENCE:

1971-1975: Research Chemist for:
WSU in Horticultural Research
Pennwalt in Pesticide Research
University of Washington in Heart Research
1975-1985: Forensic Scientist for the Washington State Patrol Crime Laboratory
1986-1987: Forensic Scientist at Quantum Analytical Laboratory
1987-Present: Owner and Forensic Scientist at Forensic Services

PRACTICAL EXPERIENCE:

- Trace evidence examination and comparison including human and animal hairs, fibers, paint, plastics, glass, soil and miscellaneous associative evidence
- Imprint evidence including shoeprints, tire prints, fabric impressions, and vehicle gauges
- Bloodstain pattern interpretation
- Evidence examination for body fluids
- Lamp filament examination for "on" or "off" at impact
- Analysis of controlled substances
- DWI case evaluation and defense
- Crime scene investigation and reconstruction
- Crime scene photography
- Determination of trajectory
- Evidence photography in the laboratory
- Accident investigation and reconstruction
- Quantitation of alcohol in whole blood
- Quantitation of alcohol in other liquids (i.e. drinks)
- More than 300 testimonies in municipal, district, superior, and federal courts in Washington, Idaho, and Montana.

PROFESSIONAL ASSOCIATIONS:

Northwest Association of Forensic Scientists (NWAFS)– since 1976
American Academy of Forensic Sciences (AAFS) – since 1978
Washington Association of Technical Accident Investigators (WATAI)– since 1983
International Association of Bloodstain Pattern Analysts (IABPS)– since 1992

Civil • Criminal • Laboratory Analysis • Accident Investigation • Evaluation • Consultation • Testimony

INSTRUCTION AND PROFESSIONAL PAPERS GIVEN FOR:

Drug Enforcement Administration
Numerous police agencies in Washington State
Fellow forensic scientists at the Washington State Patrol Crime Lab
Washington State Criminal Justice Training Commission
Northwest Association of Forensic Scientists
Idaho Law Foundation - CLE
The Washington Defender Association - CLE
The Federal Public Defender – CLE
United States Customs officers
The Seattle King County Bar Bulletin
The Washington Criminal Defense Magazine
Shoreline Community College
Washington Foundation for Criminal Justice – CLE
Puget Sound Investigators Association
Selected groups of attorneys
Various public schools
The Seattle Adjuster
University of Washington School of Law – CLE
Pacific Northwest Association of Investigators
Associated Council for the Accused – CLE
King County Public Defender Association

TOPICS INCLUDE:

Evidence recognition and collection
Leaf marijuana identification
Examination of vehicle lamps
Examination of quartz halogen lamps
Trace evidence examination
Basic narcotics investigation
Advanced crime scene investigation
Use of the independent crime laboratory
How to use an expert witness
Cross examining of an expert witness
Determination of “who was driving?”
DWI defense and possible Datamaster errors
Proving who was driving from trace evidence and injuries
Blood stain pattern interpretation

PROFESSIONAL LICENSES:

Licensed by the State of Washington since 1987

Licensed by the Federal Drug Enforcement Administration for analytical testing of controlled substances since 1988; Controlled Substance Registration number RMO132011

Licensed by the State of Washington Health Professions Quality Assurance Division since 1997

SPECIALIZED TRAINING RECEIVED:

Crime Scene Investigation; Highline Community College; Midway, WA; 1974

Crime Scene Detection; Highline Community College; Midway, WA; 1975

Introduction to Criminalistics; FBI Academy; Quantico, VA; 1976

Gas Chromatography Training; Gulf South Research Institute and Perkin Elmer; Portland OR; 1976

Body Fluid Identification; NWAFS; Missoula, MT; 1976

Applied Polarized Light Microscopy; McCrone Institute; Chicago, IL; 1977

Instrumental Analysis of Paints and Explosives; FBI Academy; Quantico, VA; 1977

Vehicle Lamp Examination Workshop; The Traffic Institute; Northwestern University; Evanston, IL; 1978

Advanced Crime Scene Investigation; Washington State Criminal Justice Training Commission; Highline Community College; Midway, WA; 1978

Forensic Microscopy; McCrone Institute; Chicago, IL; 1978

Introduction to Hairs and Fibers; FBI Academy; Quantico, VA; 1979

Forensic Microscopy of Soils; McCrone Institute; Chicago, IL; 1979

Crime Scene Investigation; FBI Academy; Quantico, VA; 1980

Clandestine Drug Laboratory Workshop; NWAFS; Eugene, OR; 1982

Crime Laboratory Forensic Photography; FBI Academy; Quantico, VA; 1982

Crime Scene Theory and Reconstruction; California Dept. of Justice; Modesto, CA; 1983

Firearms Examination Workshop; NWAFS; Bend, OR; 1986

Controlled Drinking Experiments; Quantum Analytical Laboratory; Seattle, WA; 1986

At Scene Traffic Accident Investigation; Institute of Police Technology and Management; University of North Florida; Correspondence Course; 1986

Blood Alcohol Quantitation; Quantum Analytical Laboratory; Seattle, WA; 1986

Highway Lighting Systems; WATAI; Bellevue, WA; 1987

Collision Analysis and Traffic Accident Reconstruction; Society of Accident Reconstructionists; Miami, FL; 1987

SPECIALIZED TRAINING CONTINUED:

Blood Spatter Analysis; NWAFS; Portland, OR; 1988

Blood Alcohol Absorption and Elimination; NWAFS; Portland, OR; 1988

Tire Footprint Identification by Peter McDonald; NWAFS; Coeur D'Alene, ID; 1991

Advanced Bloodstain Evidence Workshop; J.L. Bunker and Associates; Spokane, WA; 1992

Advanced Seminar on Bloodstain Pattern Analysis and Forensic Investigation; IABPA; Colorado Springs, CO; 1992

Recovery of Buried Bodies and Scattered Surface Skeletons; NWAFS; Boise, ID; 1993

Advanced Seminar on Bloodstain Pattern Analysis and Forensic Investigation; IABPA; Los Angeles, CA 1993

Recovery and Identification of Trace Evidence from Bullets; NWAFS; Anchorage, AK; 1995

Fiber Cross-Sections: How to Make and Use Them; NWAFS; Anchorage, AK 1995

Identification and Examination of Bloodstains; Everett Community College; Everett, WA; 1995

Advanced Seminar on Bloodstain Pattern Analysis and Forensic Investigation; IABPA joint conference with The Association for Crime Scene Reconstruction; Seattle, WA; 1997

Side Impact Collision Training and Demonstration; WATAI; Bremerton, WA; 1998

Microscopic Examination of Sexual Assault evidence; International Association of Forensic Scientists; Los Angeles, CA; 1999

Vehicle Lamp Damage in Controlled Collisions (crash demonstrations); WATAI; Seattle, WA; 2002

Domestic Violence Photography; NWAFS; Portland, OR; 2003

Semen Analysis; Location of Deposits and Presumptive testing; Emerald City Forensics; Seattle, WA; 2003

Bus braking and Turning at High Speeds (training and demonstrations at Seattle Metro); WATAI; Seattle, WA; 2004

High Throughput Genetic Testing in the Wake of a Mass Disaster; NWFS; Seattle, WA; 2005

The Green River: Forensic Evidence and the Prosecution of Gary Ridgeway; AAFS; Seattle, WA; 2006