

Professional Summary:

Mr. Crowley has more than 26 years of experience in the fire service, fire investigation, fire inspection and related fields. He has extensive experience evaluating origin and cause, scene analysis, technical writing, evidence collection, site documentation, field testing, and multiagency coordination. He has investigated over 300 fire and explosion scenes as a public and private investigator and taught fire investigation courses at the collegiate level.

- Fire Origin and Cause
- Vehicle Origin and Cause
- Complex Scene Analysis

Licenses and Certifications:

Certified Fire Investigator, International Association of Arson Investigators, #21-073133

Certified Fire and Explosion Investigator, National Association of Fire Investigators, #9747-4442

Licensed Unarmed Private Investigator & Certified Trainer, Washington State, #3218

Project Experience:

Commercial Structure Fire, Bellingham, WA

Complete Fire Investigation

Site Coordinator for a multiple party, multiple day examination of a historic commercial structure in Bellingham, Washington.

Residential Structure Fire, Bellingham, WA

Complex Fire Investigation

Fire investigation assignment involving identifying, locating, and conducting multiple witness interviews, fire dynamics evaluation of fire origin and fire spread hypotheses, and gathering additional information not collected or analyzed by other investigators.

Residential Structure Fire, Seattle, WA

Multi-Agency Fire Investigation

Site Coordinator for a multiple party, joint scene examination for a historic residence in Seattle, Washington

Pacific Northwest Fire Investigation Conference, Leavenworth, WA

Annual Fire Investigation Conference/Seminar

Member of conference planning committee to present state-of-the-art education and training at the Annual Conference, jointly sponsored by the Northwest Fire Investigators Association and the International Association of Arson Investigators, Washington State Chapter #21 (2004 – Present).

Residential Development (Street of Dreams), Monroe, Washington

Multi-Agency Fire Investigation

Member of Snohomish County Fire Marshal's Office Investigation team, in conjunction with ATF and FBI, to investigate the origin and cause of six unoccupied residential structures in a single

neighborhood that ignited and burned within ten minutes of each other. Federal Investigation is still open and ongoing.

**Royal Thailand Police (Forensic Science Division), Bangkok, Kingdom of Thailand
Instruction & Good Will Outreach**

On behalf of the United States State Department, Lead Instructor for a team of fire investigators to provide fire investigation instruction to almost 400 (of 750) members of the Royal Thailand Police (Forensic Science Division).

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Inc. (Lakewood, WA), District Manager, 2020 – Present
EFI Global, Inc. (Lakewood, WA), Fire Science Principal, 2018 – 2020
Unified Investigations & Sciences, Inc (Lakewood, WA), Senior Fire Investigator/Team Lead, 2018
Unified Investigations & Sciences, Inc (Lakewood, WA), Senior Fire Investigator, 2014 – 2017
Tukwila Fire Department (Tukwila, WA), Firefighter-EMT (Fire Investigator), 1993 – 2017
Unified Investigations & Sciences, Inc (Lakewood, WA), Fire Investigator, 2013 – 2014
Snohomish County Fire Marshal's Office (Everett, WA), Fire Investigator, 2005 – 2009
King County Fire District #40 (Renton, WA), Firefighter- EMT, 1991 – 1993
Washington State University Fire Services (Pullman, WA), Resident Firefighter, 1991
King County Fire District #24 (SeaTac, WA), Resident Firefighter, 1991
Fatigue Technology, Inc. (Tukwila, WA), Laboratory Technician, 1989 – 1991

Specialized Education:

Residential Electrical Systems, IAAI (CFITrainer.net), 2022
Fire Protection Systems, IAAI (CFITrainer.net), 2021
The Deposition Part 1: Format, Content, and Preparation, IAAI (CFITrainer.net), 2021
Physical Evidence at the Fire Scene, IAAI (CFITrainer.net), 2021
Evidence Examination: What Happens at the Lab, IAAI (CFITrainer.net), 2021
Fire Investigation for Company Officers, IAAI (CFITrainer.net), 2019
Thermometry, Heat, and Heat Transfer, IAAI (CFITrainer.net), 2019
Ethical Duties Beyond the Fire Scene, IAAI (CFITrainer.net), 2019
Understanding Undetermined; IAAI (CFITrainer.net), 2019
Accreditation, Certification, and Certificates; IAAI (CFITrainer.net), 2018 (REFRESHED)
Discovery in Civil Cases; IAAI (CFITrainer.net), 2018
Explosion Case Preparation, Eastern Kentucky University, 2018
Systems and Failure Analysis, Eastern Kentucky University, 2018
Advanced Topics in Fire Investigation; Pacific Northwest Fire Investigation Conference, 2018
Fire Dynamics; Eastern Kentucky University, 2018
Failure Analysis; Eastern Kentucky University, 2017
What the Insurance Professional Needs to Know About Fire Investigation, IAAI (CFITrainer.net), 2017
Process of Elimination, IAAI (CFITrainer.net), 2017
Investigating Natural Gas Systems, IAAI (CFITrainer.net), September 26, 2017, 3 Hours (tested)

Investigating Motor Vehicle Fires, IAAI (CFITRainer.net), 2017 (REFRESHED)
The Practical Application of the Relationship Between NFPA 1033 and NFPA 921, IAAI (CFITRainer.net), 2017 (REFRESHED)
Introduction to Evidence, IAAI (CFITRainer.net), 2017 (REFRESHED)
Documenting the Event, IAAI (CFITRainer.net), 2017 (REFRESHED)
Investigating Natural Gas Systems, IAAI (CFITRainer.net), 2017
Post-flashover Fires, IAAI (CFITRainer.net), 2017
Advanced Explosion/Bomb Investigation; Eastern Kentucky University, 2017
Fire Arson & Explosion Investigation I; Eastern Kentucky University, 2017
Unified Investigations & Sciences, Essentials of NFPA 1033, 2017
Introduction to Forensic Science; Eastern Kentucky University, 2016
Fire Investigator Scene Safety, IAAI (CFITRainer.net), 2016
Writing the Initial Origin and Cause Report, IAAI (CFITRainer.net), 2016
Legal Aspects of Fire Protection & Safety; Eastern Kentucky University, 2015
Principles of Occupational Safety & Health; Eastern Kentucky University, 2015
Accreditation, Certification, and Certificates, IAAI (CFITRainer.net), 2015
Fire Behavior and Combustion; Eastern Kentucky University, 2014
Proving Criminal Acts; Eastern Kentucky University, 2014
International Association of Arson Investigators International Training Conference, Las Vegas, Nevada, 2014
Wildland Fires Investigation, IAAI (CFITRainer.net), 2014
Electrical Safety, IAAI (CFITRainer.net), 2014
Basic Electricity, IAAI (CFITRainer.net), 2014
The HAZWOPER Standard, IAAI (CFITRainer.net), 2014
Explosion Dynamics, IAAI (CFITRainer.net), 2014
Understanding Fire Through the Candle Experiments, IAAI (CFITRainer.net), 2014
Effective Investigation and Testimony, IAAI (CFITRainer.net), 2014
Charleston Sofa Super Store Fire, IAAI (CFITRainer.net), 2014
DNA, IAAI (CFITRainer.net), 2014
NFPA 921 and 1033 2014 Editions: Important Revisions, IAAI (CFITRainer.net), 2014
An Analysis of the Station Nightclub Fire, IAAI (CFITRainer.net), 2014
Ethics and Social Media, IAAI (CFITRainer.net), 2014
How First Responders Impact the Fire Investigation, IAAI (CFITRainer.net), 2013
The Impact of Ventilation in Building Structures and Systems on Fire Development, IAAI (CFITRainer.net), 2013
NFPA 1033 and Your Career, IAAI (CFITRainer.net), 2013
The Practical Application of the Relationship Between NFPA 1033 and NFPA 921, IAAI (CFITRainer.net), 2013
Insurance and the Fire Investigation, IAAI (CFITRainer.net), 2013
Using Resources to Validate your Hypothesis, IAAI (CFITRainer.net), 2012
Burn to Learn; Pacific Northwest Fire Investigation Conference; Leavenworth, Washington, 2012
International Association of Arson Investigators Annual Training Conference; Dover, Delaware 2012
Preparation for the Marine Fire Scene, IAAI (CFITRainer.net), 2012
Digital Photography and the Fire Investigator, IAAI (CFITRainer.net), 2012
Arc Mapping Basics, IAAI (CFITRainer.net), 2012
Critical Thinking Solves Cases, IAAI (CFITRainer.net), 2012
The Potential Value of Electronic Evidence in Fire Investigations, IAAI (CFITRainer.net), 2012
The Fire Investigator & the 2011 NFPA 921 Changes, IAAI (CFITRainer.net), 2011
Private Investigator Training; Green River Community College, Auburn, Washington 2010
Ethics and the Fire Investigator, IAAI (CFITRainer.net), 2010

MagneTek: A Case Study in the Daubert Challenge, IAAI (CFITRainer.net), 2009
The Scientific Method of Fire and Explosion Investigation, IAAI (CFITRainer.net), 2009
Expert Courtroom Testimony Program; International Association of Arson Investigators, Lake Oswego, Oregon 2009
Electrical and Fuel Gas Fire Causes; Pacific Northwest Fire Investigation Conference, Leavenworth, Washington 2009
International Association of Arson Investigators Annual Training Conference; Dallas, Texas, 2009
Post Flashover & Arson Fraud Investigation; Pacific Northwest Fire Investigation Conference, Leavenworth, Washington 2008
Investigation of Illegal Animal Fighting; Humane Society of the United States, Monroe, Washington 2008
Introduction to Fire Dynamics and Modeling, IAAI (CFITRainer.net), 2008
Investigating Motor Vehicle Fires, IAAI (CFITRainer.net), 2008
Introduction to Evidence, IAAI (CFITRainer.net), 2008
Documenting the Event, IAAI (CFITRainer.net), 2008
Narrative Report Writing for Investigators; Insight Instruction, Everett, Washington 2008
Juvenile Fire Setter Interventional Specialist I/II; National Fire Academy (Off-Site), Bremerton, Washington 2008
Criminal Investigation; Everett Community College
Electrical and Fuel Gas Fire Investigations; Washington State Fire Investigation Conference, Leavenworth, Washington 2007
Interviewing Techniques; Washington State Fire Investigation Conference, Leavenworth, Washington 2006
Introduction to Criminal Law; Bellevue Community College, 2006
Advanced Fire Scene Photography; Washington State Fire Investigation Conference, Leavenworth, Washington, 2005
Advanced Fire Scene Investigation; Bellevue Community College, 2005
Child Interview Techniques; Public Agency Training Council, Bothell, Washington 2005
Vehicle Fire Investigation; Washington State Region 7 Fire Investigation Council, Ellensburg, Washington, 2005
Juvenile Fire Setter, Bellevue Community College, 2004, 20 Hours
Advanced Fire Investigation; Washington State Fire Investigation Conference, Leavenworth, Washington 2004, 40 Hours
Vehicle Fire/Arson Investigation; Public Agency Training Council, Kent, Washington 2004, 24 Hours
Introduction to Fire Modeling/Smokeview; BATF/Region 4 Fire Investigation Council, Tukwila, Washington 2004
Forensic Photography; BATF/Region 4 Fire Investigation Council, Tukwila, Washington 2004
Combating Arson for Profit; Bellevue Community College, 2004
Investigative Interview Techniques; Bellevue Community College, 2004
Crime Scene and Physical Evidence; Bellevue Community College, 2004
Fire Pattern Certification; Public Agency Training Council, Kirkland, Washington 2003
Chemistry of Hazardous Materials; National Fire Academy (Off-Site), Bellevue, Washington, 1999
Hazardous Materials Technician; United States Environmental Protection Agency, Region X, Shelton, Washington 1998
Fire Cause Determination; King County Training Officer's Association, Woodinville, Washington
Basic Fire Investigation; Bellevue Community College, 1993
Building Construction, Bellevue Community College, 1993
Fire Inspections & Codes, Bellevue Community College, 1992
Professional Report Writing, Bellevue Community College, 1992
Hazardous Materials II, Bellevue Community College, 1992

Fire Protection Systems, Bellevue Community College, 1989
Hazardous Materials I, Bellevue Community College, 1989

Education:

Bachelor of Science, Fire Arson and Explosion Investigation, Eastern Kentucky University, Richmond, KY (August 2018)
Associate of Arts, Fire Investigation, Bellevue College, Bellevue, WA (June 1997)
Associate of Arts, Fire Science Administration, Bellevue College, Bellevue, WA (June 1993)

Affiliations:

International Association of Arson Investigators
International Association of Arson Investigators, Washington State Chapter #21
National Association of Fire Investigators
National Fire Protection Association
Northwest Fire Investigators Association

Courses Instructed/ Guest Lecturer:

Instructor, *Fire Investigation for Company Officers*; King County Training Officer's Association; Presented Annually, 2009-2019
Cadre Instructor, *Basic Firefighting Techniques*; Everett Community College, 2008-2014 (Two academy classes per year, including *Fire Investigation for Firefighters*)
Instructor, *Basic Fire Investigation and Evidence Preservation*, (40 Hour Course)
Everett Community College; 2008-2013 (two classes per year)
Northwest Fire Investigators Association; 2013
Enumclaw Fire Department; 2009
Bellevue College; 2008
Lead Instructor, *Fire Scene Investigation (Instructor Development Course)*; US State Department, Transnational Criminal Affairs Section (TCAS) – Royal Thailand Police, (Forensic Science Division), Bangkok Thailand; 80 Hour Course, March 2011 Bangkok, Thailand
Instructor, *Fire Scene Investigation*; US State Department, Transnational Criminal Affairs Section (TCAS) – Royal Thailand Police (Forensic Science Division), Bangkok, Thailand; 40 Hour Course, 2 classes each: June 2010; September 2010; Course Assistant, March 2011
Instructor, *Combating Arson for Profit*, Bellevue College, 2010, 2011
Guest Lecturer, *Fire Investigation for Forensic Students*, Everett Community College, March 2008 & October 2009
Guest Lecturer, *Child Fatalities and Serious Physical Abuse: Guidelines for First Responders*; Moses Lake, WA, 2008

Honors and Awards:

Values in Action, Sedgwick, 2018
Summit Award, Unified Investigations & Sciences, Inc, 2015
International Fire Service Training Association (IFSTA) 2012 Calendar Contest Winner, (*February 2012 Calendar Photograph*)
Fire Photography Award – Accidental Fire Cause – Second Place, International Association of Arson Investigators, 2006, (*Cover Photograph - April 2006 Fire & Arson Investigator*)
Fire Photography Award – Incendiary Fire Cause – Second Place, International Association of Arson Investigators, 2006