



## Patrick Barker, IAAI-CFI | Senior Fire Investigator

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### Professional Summary:

Mr. Barker has over 20 combined years of Fire Service and Law Enforcement experience, including 19 years dedicated specifically to fire and explosion incident investigations. Mr. Barker is a Certified Fire Investigator through the International Association of Arson Investigators as well as a Certified Fire Explosion / Vehicle Fire Investigator through the National Association of Fire Investigators. Mr. Barker has investigated over 2000 fire scenes that have involved arson investigations, multimillion-dollar losses, complex scene investigations, vehicle fires, and fires involving fatalities. Mr. Barker is currently serving as 1st vice president on the North Carolina chapter of the International Association of Arson Investigators as well.

### Licenses and Certifications:

Certified Fire Investigator, International Association of Arson Investigators, # 46-072509

Certified Fire and Explosion Investigator, National Association of Fire Investigator, # 11042-7946

Pro Board Fire Investigator NFPA 1033-2009, Certificate #997742

Certified Vehicle Fire Investigator, National Association of Fire Investigators

Certified Fire Investigation Instructor, National Association of Fire Investigators

Private Investigator, VA # 99-409983

Private Investigator, NC # 5154

Private Investigator, TN # 7998

Private Investigator, WV # Company License

Private Investigator, SC #RD23303

Private Investigator, GA # PDE051756

### Professional Experience:

EFI Global /Unified Investigations and Sciences, Inc. Fire Investigator, 2015- Present

West Virginia State Fire Marshal, Investigator (Fire & Arson Division), 2007-2015

West Virginia State Fire Marshal, Deputy of Investigations (Chief Investigator)  
2015-2015

West Virginia State Fire Marshal, Intern, 2006-2006

Boone County 911, EOC Director Assistant, 2004-2005

Madison Fire Department, Firefighter/Investigator, 2001-2007

### Specialized Education:

St. Louis Fatal Flash Power Explosion Case Study, 2 Hrs. Tested, ITC IAAI 4/2026  
Forensic Electrical Investigation Testing and Demonstrations, 4 Hrs. Tested, ITC IAAI 4/2026  
Solar Fire Investigation Analysis, 4 Hrs. Tested, ITC IAAI 4/2026  
Chain Reaction: The Explosion That Killed Firefighter Trevor Brown, 4 Hrs. Tested, ITC IAAI 4/2026  
Understanding How Fugitive Gas Releases Can Result in Flash Fire or Explosions, 4 Hrs. Tested, ITC IAAI 4/2026  
A Street Approach to Interactions Between Fire Investigators and Individuals with Intellectual Disabilities, 2 Hrs. Tested, ITC IAAI 4/2026  
Are You Living the Standards?, 4 Hrs. Tested, ITC IAAI 4/2026  
An Introduction to Turbulent Flow Patterns, 2 Hrs. Tested, ITC IAAI 4/2026  
Staying Relevant – The Role of Fire Investigators in Multi-Agency Success, 2 Hrs. Tested ITC IAAI 4/2026  
Timeline Analysis in Fire Investigation, 2 Hrs. Tested, ITC IAAI 4/2026  
Collaboration, Not Collusion, 2 Hrs. Tested, ITC IAAI 4/2026  
Everything You Wanted to Know About Electrical Service Fires and Were Afraid to Ask, 4 Hrs. Tested, ITC IAAI 4/2026  
IAAI Ignite: Leadership in Action, 2 Hrs. Tested, ITC IAAI 4/2026  
Fire Investigative Approaches, NC/SC IAAI 24 Hrs. Tested, 10/2025  
CFITrainer.net Photography Beta Test Date Completed: 8/18/2025  
CFITrainer.net Evidence Collection Beta Test Date Completed: 8/18/2025  
Advanced Investigative Approaches, NC/SC IAAI, 31 Hrs. Tested, 5/2025  
Eastern NC IAAI Winter Conference, NC IAAI, 2/2025  
Fire Investigative Approaches, NC/SC IAAI 37.5 Hrs. Tested, 10/2024  
Image Forensics and Document Analysis, NC IAAI Spring Conference, 4 hours, tested 5/2024  
Digital Twin Technology, NC IAAI Spring Conference, 2 hours, tested, 5/2024  
Case Study Using Digital Technology, NC IAAI Spring Conference, 2 hours, tested 5/2024  
Arson-Inside the Mind, NC IAAI Spring Conference, 4 hours tested, 5/2024  
Report Writing, NC IAAI Spring Conference, 2 hours, tested, 5/2024  
How Building Construction, Building Systems and the Fire Code Effect Fire Investigations, NC IAAI Spring Conference, 5/2024  
Commercial Kitchen Fire Investigation, NC IAAI Spring Conference, 4 hours, tested, 5/2024  
Anatomy of the Stove Fire: Accident, Anomaly or Arson, NC IAAI Spring Conference, 3 hours tested, 5/2024  
An Examination of Wi-Fi (Smart) Plug, IAAI, 2 hrs. tested, 4/2023  
Born to Burn, IAAI, 2 hrs. tested, 4/2023  
Butane Hash Oil, 4 hrs. tested, 4/2023  
Child/Adolescent Forensic Interviewing in Fire Investigations, IAAI, 4 hrs. tested, 4/2023  
Complex Fire Investigation with Focus on Electrical Systems. IAAI, 6 hrs. tested, 4/2023  
Digital Forensics, IAAI, 2 hrs. tested, 4/2023  
Fire Photography, IAAI, 2 hrs. tested, 4/2023  
Firearm and Fire Cause, IAAI, 4 hrs. tested, 4/2023  
Gone With or Without a Trace, IAAI, 2 hrs. tested, 4/2023  
Looking Past the Fire, IAAI, 4 hrs. tested, 4/2023  
Opening Ceremonies, IAAI, 2 hrs. tested, 4/2023  
Student Presentations, IAAI, 2 hrs. tested, 4/2023  
Your National Fire Academy, IAAI, 2 hrs. tested, 4/2023

The Team Approach, NC/SC IAAI, October 2022, 1 Hour (Tested)  
Advanced Fire Fatality Scene Techniques, NC/SC IAAI, October 2022, 2 Hours (Tested)  
Challenges to Expert Qualifications, Methodology, & Opinions, NC/SC IAAI, October 2022, 3 Hours (Tested)  
Documenting the Fire Scene, NC/SC IAAI, October 2022, 6 Hours (Tested)  
IAAI-Safety, NC/SC IAAI, October 2022, 1 Hour (Tested)  
NFA Updates, NC/SC IAAI, October 2022, 1 Hour (Tested)  
Statement Analysis, NC/SC IAAI, October 2022, 8 Hours (Tested)  
Advanced Investigative Approaches, NC IAAI, May 2022, 32 Hours  
Fire Investigative Approaches, NC/SC IAAI, October 2021, 36 Hours (Tested)  
Fire Investigative Approaches, NC/ SC IAAI, October 2019, 36 Hours (Tested)  
Fire Investigative Approaches, NC/SC IAAI, 2019  
Fire Investigative Approaches, NC/SC IAAI, October 18, 2019 36 Hours (Tested)  
Fire Fatality Investigation, NC State Fire Marshal's Office, August 20, 2019, 8 Hours (Tested)  
Modern Techniques of Fire & Arson Investigation, TN IAAI, 2018  
Vehicle Fire, Arson & Explosion Investigation Science & Technology Seminar, NAFI, 2018  
Modern Techniques of Fire & Arson Investigation, TN IAAI, 2017  
Essentials of NFPA 1033, Unified Investigations & Sciences, 2017  
Fire Investigative Approaches, NC/SC IAAI, 2016  
Fire Investigation Training, VAIAAI, 2016  
Forensic Investigation, Unified Investigations & Sciences, 2015  
Origin Fire Pattern Persistence in Post Flashover Fires & Identifying and Examining Youth Fire Setters and Bomb Makers, WVIAAI, 2015  
Fire Scene Evidence Collection and Analysis, WVIAAI, 2015  
Serial Arsonists, WVIAAI, 2014  
Cellular Telephone and Social Media in Criminal Investigations, Leesburg, VA 2014  
Legal Issues and Courtroom Preparation, WVIAAI, 2014  
Responding to and Investigating Natural Gas Fires, WVIAAI, 2013  
Statement Analysis & Interviewing, WV State Police, 2012  
The Effects of Fire on Bodies, WVIAAI, 2012  
Fire Investigative Approaches, NC/SC IAAI, 2016  
Fire Investigation Training, VAIAAI, 2016  
Ethical Duties Beyond the Fire Scene, CFITrainer.net / IAAI, 2016  
Introduction to Youth-Set Fires, CFITrainer.net / IAAI, 2016  
Search and Seizure, CFITrainer.net / IAAI, 2016  
Understanding the Fire Investigator's Job: A guide for Non-Investigators, CFITrainer.net / IAAI, 2016  
Post Flashover Fires, CFITrainer.net / IAAI, 2016  
Legal Aspects of Investigating Youth-Set Fires, CFITrainer.net / IAAI, 2016  
Investigating Fire and Explosion Incidents Involving a Line of Duty Death, CFITrainer.net / IAAI, 2016  
The Deposition Part 2: Questioning Tactics and Effective Responses CFITrainer.net / IAAI, 2015  
The Deposition Part 1: Format, Content, and Preparation, CFITrainer.net / IAAI, 2015  
The Potential Value of Electronic Evidence in Fire Investigations, CFITrainer.net / IAAI, 2015  
Accreditation, Certification, and Certificates, CFITrainer.net / IAAI, 2015  
Investigating Natural Gas Systems, CFITrainer.net / IAAI, 2015  
Residential Electrical Systems, CFITrainer.net / IAAI, 2015  
Residential Natural Gas Systems, CFITrainer.net / IAAI, 2015  
Using Resources to Validate your Hypothesis, CFITrainer.net / IAAI, 2015  
Explosion Dynamics, CFITrainer.net / IAAI, 2015  
Basic Electricity, CFITrainer.net / IAAI, 2015

Ethics & Social Media, CFITrainer.net / IAAI, 2015  
Introduction to Fire Dynamics and Modeling, CFITrainer.net / IAAI, 2015  
NFPA 1033 and Your Career, CFITrainer.net / IAAI, 2015  
Process of Elimination, CFITrainer.net / IAAI, 2015  
Wildland Fires Investigation, CFITrainer.net / IAAI, 2015  
Forensic Investigation, Unified Investigations & Sciences, 2015  
Origin Fire Pattern Persistence in Post Flashover Fires & Identifying and Examining Youth Fire Setters and Bomb Makers, WVIAAI, 2015  
Fire Scene Evidence Collection and Analysis, WVIAAI, 2015  
Serial Arsonists, WVIAAI, 2014  
Cellular Telephone and Social Media in Criminal Investigations, Leesburg, VA 2014  
Legal Issues and Courtroom Preparation, WVIAAI, 2014  
NFPA 921 and 1033 2014 Editions: Important Revisions, CFITrainer.net / IAAI, 2014  
Responding to and Investigating Natural Gas Fires, WVIAAI, 2013  
Statement Analysis & Interviewing, WV State Police, 2012  
The Effects of Fire on Bodies, WVIAAI, 2012  
Communicating the Value of Membership in the IAAI, CFITrainer.net / IAAI, 2012  
Writing the Initial Origin and Cause Report, CFITrainer.net / IAAI, 2012  
The Practical Application of the Relationship between NFPA 1033 and NFPA 921, CFITrainer.net / IAAI, 2012  
Fire Protection Systems, CFITrainer.net / IAAI, 2012  
How first Responders Impact the Fire Investigation, CFITrainer.net / IAAI, 2011  
MagneTek: A Case Study in The Daubert Challenge, CFITrainer.net / IAAI, 2011  
DNA, CFITrainer.net / IAAI, 2011  
Evidence Examination: What happens at the Lab, CFITrainer.net / IAAI, 2011  
Fundamentals of Interviewing, CFITrainer.net / IAAI, 2011  
Fire and Explosion Investigations utilizing NFPA 921 and 1033, CFITrainer.net / IAAI, 2010  
Ethics and the Fire Investigator, CFITrainer.net / IAAI, 2010  
Electrical Safety, CFITrainer.net / IAAI, 2010  
The HAZWOPER Standard, CFITrainer.net / IAAI, 2010  
Arc Mapping Basics, CFITrainer.net / IAAI, 2010  
Preparing for the Marine Fire Scene, CFITrainer.net / IAAI, 2010  
Effective Investigation and Testimony, CFITrainer.net / IAAI, 2009  
Documenting the Event, CFITrainer.net / IAAI, 2009  
The Scientific Method for Fire and Explosion Investigation, CFITrainer.net / IAAI, 2009  
Critical Thinking Solves Cases, CFITrainer.net / IAAI, 2009  
Physical Evidence at the Fire Scene, CFITrainer.net / IAAI, 2009  
Managing Complex Fire Scene Investigations, CFITrainer.net / IAAI, 2009  
A Ventilation-Focused Approach to the Impact of Building Structures and Systems on Fire, CFITrainer.net / IAAI, 2009  
Investigating Motor Vehicle Fires, CFITrainer.net / IAAI, 2009  
Fire Investigator Scene Safety, CFITrainer.net / IAAI, 2009  
Insurance and the Fire Investigation, CFITrainer.net / IAAI, 2009  
Vacant and Abandoned Buildings, CFITrainer.net / IAAI, 2009  
Understanding Fire through the Candle Experiment, CFITrainer.net / IAAI, 2009  
Introduction to Evidence, CFITrainer.net / IAAI, 2009  
Digital Photography and the Fire Investigator, CFITrainer.net / IAAI, 2009

#### Education:

Bachelor of Science Forensics, Fire & Arson Investigation, Mountain State University, Beckley, WV



Associates of Science Fire Science, Mountain State University, Beckley, WV

**Affiliations:**

NC IAAI 1st Vice President  
International Association of Arson Investigators (IAAI)  
National Association of Fire Investigators (NAFI)  
North Carolina Chapter International Association of Arson Investigators  
South Carolina Chapter International Association of Arson Investigators

**Honors and Awards:**

Investigator of The Year, West Virginia IAAI, December 10, 2012  
Member of The Year, West Virginia IAAI, October 20, 2014  
Presidential Award of Excellence, North Carolina IAAI, October 28, 2025

**Courses:**

Instructor, International Arson Investigation (IAAI), Forensic Photography Course  
Adjunct Instructor, West Virginia University Fire Service Extension, Fire Investigation

\*\*Court and Litigation CV available on request