

CURRICULUM VITAE
MATTHEW J. WILKE
IAAI-CFI®

Mr. Wilke's background consists of education/technical training and over 25 years of professional fire service experience. Mr. Wilke began his fire career in 1996 and continues to work for a municipal fire department in the capacity of a Fire Captain since 2001. Fire department duties Mr. Wilke is responsible for fire suppression, EMS responses, conducting daily training, code enforcement (commercial fire inspections) and fire investigations. He is responsible for conducting quarterly fire investigation training for the fire department. He has been involved in over 300 investigations including investigating, report writing or technical review of fire losses.

Mr. Wilke began his employment with Fire Cause Analysis in 2013 as a fire investigator. He has conducted over 400 fire investigations including vehicle, single family homes and commercial fires. Mr. Wilke is an expert in the fire and explosion investigation process, including managing and the collection and preservation of evidence.

Mr. Wilke has been a member of the North Dakota Chapter - International Association of Arson Investigators since 2001, and a member of the International Association of Arson Investigators since 2002. He has successfully challenged the International Association of Arson Investigators examination achieving the Certified Fire Investigator credential in 2009 and has successfully renewed it to maintain the certification.

Mr. Wilke has his Private Detective Licenses in Minnesota and Montana. He is Firefighter 1 and Firefighter 2 certified through the North Dakota State Fire Association. He is a Registered Emergency Medical Technician.

In 1989 Mr. Wilke graduated with a BA in Communications from the University of Mary.

Professional Experience

- **Fire Investigator**, Fire Cause Analysis 2013 – Present
Conducts fire and explosion investigations to determine the origin and cause.
- **Captain – Fire Investigation Training**, Bismarck Fire Department, 2008 – Present
Bismarck, ND
Prepares and conducts quarterly training for the department's investigation team. Conducts fire and explosion investigations. Moderates case studies within the department and provides administrative and technical review of reports.

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- **Captain**, Bismarck Fire Department, Bismarck, ND 2001 – Present
Completes and directs Fire Safety Inspections for a fire department company. Conducts fire investigations assigned to our shift, including scene examination and report writing to determine origin and cause.
- **Investigation Team**, Bismarck Fire Department, Bismarck, ND 2000 – Present
Fire investigator responsible for conducting fire and explosion investigations to determine origin and cause.
- **Firefighter**, Bismarck Fire Department, Bismarck, ND 1996 – 2001

Education

- **Bachelor of Arts – Communications** 1989
University of Mary, Bismarck, ND

Professional Certifications & Licenses

- **Certified Fire Investigator**, International Association of Arson Investigators July 2009
IAAI-CFI # 64-071602
- **State of Minnesota Private Detective**
License # 1059
- **State of Montana Private Detective**
License # PSP-PI-LIC-22506

Professional Associations

- International Association Arson Investigators – North Dakota Chapter, Member

Publications

- International Association of Arson Investigators – North Dakota Chapter, *Incendiary News*, “*You Make The Call, A Case Study*,” July 2011

Professional Honors & Awards

- 2021 Investigator of the Year – North Dakota Chapter of IAAI

Teaching Experience

- Responsible for setting up and conducting quarterly training for the Bismarck Fire Department investigation team. 2008 to Present
- International Association of Arson Investigators – North Dakota Chapter – Quarterly Training, *Ventilation and Your Fire* January 2025

- North Dakota State Claims Seminar, *Spoliation & the Claims Adjuster* May 2019
- North Dakota State Claims Seminar, *Fire & Explosion Invest that Sizzle* May 2019
- Upper Red River Valley Claim Association Monthly Training, *Fireproofing Your Case* March 2019
- International Association of Arson Investigators – North Dakota Chapter – Quarterly Training, *Testing your Hypothesis* January 2019
- International Association of Arson Investigators – North Dakota Chapter – Annual Training Conference, *Application and Use of NFPA 921*, 4 hours September 2017
- International Association of Arson Investigators – North Dakota Chapter, *Fire Dynamics*, 8 hours September 2015
- Fire Cause Analysis & Western Dakota Claim Association, Live Training Burn Workshop with live burn & discussion on fire development, fire patterns and determining the cause October 2014

Professional Development

[H = Hours; TH = Tested Hours]

Bureau of Alcohol, Tobacco, Firearms and Explosives

- Advanced Origin & Cause/Courtroom Testimony 12/2016 76.00 TH

North Dakota Chapter – International Association of Arson Investigators

- Quarterly Training – Expectations of the Fire Investigator 01/2024 2.00 TH
- 2023 Annual Conference: Hands on Vehicle Fire Investigation 09/2023 20.00 TH
- Quarterly Training – Fire Photography – Julianna Andersson 07/2023 2.00 TH
- Quarterly Training – Fatal Fire Investigations – Derek Hill ATF 01/2023 2.00 TH
- Quarterly Training – NFPA 1321 – Randy Watson 10/2022 2.00 TH
- 2022 Annual Training Conference: 09/2022
- Scientific Protocols for Fire Investigation 16.00 TH
- North Dakota State Crime Lab 2.00 H
- Round Table 2.00 H
- Quarterly Training – Case Study – Maternal Filicide 09/2022 2.00 TH
- Quarterly Training – Lithium – Ion ESS by Fire Safety Research Institute 04/2022 1.00 TH
- Quarterly Training – Origin Fire Pattern Persistence – Chad Campanell, ATF 07/2021 2.00 TH
- Quarterly Training – Clandestine Labs – Chris Holte Fargo PD 04/2021 2.00 TH
- Quarterly Training – Expert Report Writing, Bob Toth, Iris Investigations 01/2021 2.00 TH
- Quarterly Training – Ignition Matrix, Jamie Garvey, Fargo Fire Dept 07/2020 1.00 TH
- Quarterly Training – Fire Safer Cigarettes, ND State Fire Marshal's office 10/2019 2.00 TH
- Quarterly Training – Scene Safety – ND – IAAI chapter training 07/2019 1.00 TH
- Quarterly Training – Curriculum Vitae – Importance, How To & Advice 01/2019 1.00 TH
- 20th Annual Training Conference: Camera and Lighting Techniques for Fire Scenes; Strategic Social Media; Exploitation for Fire Investigations; Fire Origin Pattern Persistence; Electrical Failure Analysis – Arc Melting Identification/Portable Space Heaters 2018 20.00 TH
- 19th Annual Training Conference: 2017 921 Changes and Updates; Accelerant Detection Dog; Application and Use of NFPA 912; Explosion Dynamics 2017 20.00 TH

• Quarterly Training – UL Listing, Jon Roberts	07/2017	2.00 TH
• 17th Annual Training Conference: Fire Behavior & Dynamics; Residential Gas & Electrical Systems; Crude by Rail Working Around Rail Cars	2015	20.00 TH
• Quarterly Training – Fire Modeling	07/2016	2.00 TH
• 16th Annual Training Conference: Complex Arson Investigations; Effects of Multiple Ventilation Openings on Post – Flashover Compartment Fires; Fire Dynamics for Fire Investigators	2014	20.00 TH
• 14th Annual Training Conference: Documenting the Fire Scene; Conducting Interviews; Building Construction; Investigative Report Writing; Safety/Hazmat	2012	20.00 TH
• 13th Annual Training Conference: Progressive Burn Pattern Development in Post – Flashover Fires; Fire Dynamics above Floor Level; NFPA 921 & 1033; Forensic Evidence Labeling & Handling; Fire Debris Analysis	2011	20.00 TH
• 11th Annual Training Conference: Documenting the Scene; Report Writing; 2009 Case Studies; Appliance Fires; Interviewing		20.00 TH
• 10th Annual Training Conference: Basic Fire Investigation Techniques – Live – Burn & Fire Scene Scenario Investigations	2008	20.00 TH
• 9th Annual Training Conference: Courtroom Testimony	2007	20.00 TH
• 8th Annual Training Conference: Vehicle Fire Investigative Techniques with Live Burns	2006	20.00 TH
• 5th Annual Training Conference: Legal Aspects of Fire Investigations; Determining Origin & Cause; Fatal Fire Investigations; Structure Fire Investigations; Live Burn Cells	2003	20.00 TH
• 3rd Annual Training Conference: Fire Investigation Techniques	2001	20.00 TH

International Association of Arson Investigators

• Expert Witness – Courtroom Testimony Course	09/2007	
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CFI Trainer.net

• Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems	05/2023	3.00 TH
• Motor Vehicles: the Engine and the Ignition, Electrical, and Fuel Systems	05/2023	3.00 TH
• Fire Effects Part 1: Heat Effects on Fuels	04/2023	3.00 TH
• Electric & Hybrid Vehicle Fires	05/2022	3.00 TH
• Electric & Hybrid Vehicle Design Basics	05/2022	3.00 TH
• NFPA 1033 and Your Career	05/2022	2.00 TH
• Fire Flow Analysis	11/2021	3.00 TH
• Fire Investigation for Fire Officers	11/2021	3.00 TH
• Fundamentals of Interviewing	11/2021	4.00 TH
• Charting Your Career Path in Fire Investigation	11/2021	3.00 TH
• What Happens with loss goes to court – Chris Konselmann	09/2021	1.00 TH
• Thermometry, Heat, and Heat Transfer	12/2019	3.00 TH
• Fire Chemistry	12/2019	3.00 TH
• Ethical Duties Beyond the Fire Scene	12/2019	3.00 TH
• Critical Evaluation and Testing of Commonly Reported Accidental Causes	09/2019	3.00 TH
• Understanding Undetermined	12/2018	3.00 TH
• Residential Natural Gas Systems	08/2018	3.00 TH

• Process of Elimination	02/2018	3.00 TH
• Investigating Natural Gas Systems	02/2018	3.00 TH
• Ethics & Social Media	02/2018	3.00 TH
• DNA	10/2017	3.00 TH
• Evidence Examination: What Happens at the Lab?	09/2017	4.00 TH
• Effective Investigation & Testimony	06/2016	3.00 TH
• Writing the Initial Cause & Origin Report	06/2015	3.00 TH
• Residential Electrical Systems	06/2015	4.00 TH
• Post Flashover Fires	05/2015	4.00 TH
• Basic Electricity	03/2014	4.00 TH
• Using Resources to Validate your Hypothesis	02/2013	2.00 TH
• MagneTek: A Case Study in the Daubert Challenge	02/2013	2.00 TH
• Insurance and the Fire Investigation	02/2012	4.00 TH
• Charleston Sofa Super Store Fire	05/2011	4.00 TH
• How First Responders Impact the Fire Investigation	02/2011	2.00 TH
• Arc Mapping Basics	09/2010	4.00 TH
• Explosion Dynamics	12/2010	4.00 TH
• Electrical Safety	11/2010	3.00 TH
• Digital Photography & the Fire Investigator	12/2009	4.00 TH
• Documenting the Event	12/2009	4.00 TH
• Fire & Explosion Investigations: Utilizing NFPA 1033 & 921	07/2009	4.00 TH
• Managing Complex Fire Scene Investigations	09/2008	4.00 TH
• The Impact of Ventilation in Building Structures on Fire Development	08/2008	4.00 TH
• Introduction to Fatal Fires	07/2008	4.00 TH
• Investigating Motor Vehicle Fires	02/2007	4.00 TH
• Introduction to Evidence	11/2007	4.00 TH
• Introduction to Fire Dynamics and Modeling	11/2006	4.00 TH
• Analysis of Station Nightclub Fire	11/2006	4.00 TH
• The Scientific Method for Fire & Explosion Investigation	07/2007	3.00 TH

Fire Cause Analysis, Inc.

• Fire Pattern Analysis and the Claims Adjuster	03/2024	2.00 TH
• Fire Science & Fire Dynamics – California Conference of Arson Investigators – Carmen & Associates Fire Investigation, Inc	07/2022	4.00 H
• Fire Cause Analysis – Evidence & Engineering	02/2021	2.75 H
• FCA Training – NFPA updates; West Texas Explosion; Electric Field Notes	04/2017	3.00 H
• FCA – NFPA 921 2014 Changes	08/2014	2.00 H
• Basic Electricity and the Fire Scene by Hal Lyson and John White / FCA	02/2014	1.00 H

Dane County (WI) Arson Initiative, Inc.

• Lithium Ion Battery Fires – ATF EE Michael Abraham	02/2023	1.50 TH
• NFPA 1321 Fire Investigation Units – DCI State FM William Boswell	01/2023	1.00 TH
• The Fire Origin Matrix – ATF/SA Andy Cox	05/2022	2.00 TH
• Internet of.00 THings (IOT)	02/2022	1.50 TH

• Arson Profiling/BAU – ATF Melissa Merola	11/2021	1.50 TH
• Thomas Sweatt Case Study – ATF Fulkerson & Dep FM Luckett	11/2021	3.50 TH
• Forensic Anthropology & Fire Investigations	10/2021	1.00 TH
• Digital Evidence	03/2021	1.50 TH
• Arson Profiling/Behavioral Analysis Unit	01/2021	1.50 TH
• Fire Patterns Post Flashover	12/2020	2.00 TH
• Corrugated Stainless Steel Tubing	12/2020	1.50 TH
• Fire Dynamics	11/2020	1.50 TH
• Myths & Legends in Fire Service	10/2020	1.50 TH
• Report Writing – Public Sector	09/2020	1.50 TH
• Wildland Fire Investigations	08/2020	1.50 TH
• Fire Investigation Report Writing	06/2020	1.00 TH
• Timeline Analysis	05/2020	1.00 TH
• Fire Alarm Control Panels	05/2020	1.00 TH
• Receptacle Fires	05/2020	1.00 TH
• Identifying Damage to Electrical Connectors	05/2020	1.00 TH

Underwriters Laboratories

• Lithium – Ion Battery Safety Symposium: Challenges for the fire service	03/2023	6.75 H
• Impact of Ventilation on Fire Patterns	01/2021	1.25 TH

Safety Unlimited, Inc.

• Lead Awareness Training for General Industry	08/2022	2.00 TH
• Asbestos Awareness Training	08/2022	2.00 TH
• Lead Awareness Training for General Industry	08/2020	2.00 TH
• Asbestos Awareness Training	08/2020	2.00 TH

Terracon

• Lead Awareness	08/2019	2.00 TH
• Asbestos Awareness	08/2019	2.00 TH

Argus Pacific, Inc

• Asbestos Awareness & Lead Awareness	09/2016	3.00 H
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Armstrong Forensic Laboratories, Inc.

• Identifying the Source & Fire Debris Analysis – From the Laboratory to the Final Report	09/2011	1.00 H
• Arson Detection for the First Responder – National Fire Academy Course	02/22/97	2.00 H

Bismarck Fire Department

• Hazardous Materials Responder at the Operations Level	07/2022	
• Hazardous Materials Responder at the Awareness Level	07/2022	

NFPA 1033

Compliance with NFPA 1033 (2014) Chapter 1 – This chapter identifies the minimum job performance requirements for fire investigators. More specifically section 1.3.7 details what the fire investigator must maintain at a minimum and up – to – date basic knowledge of the following topics beyond a high school level. They fall into 16 categories and they may be maintained by attending formal education courses, workshops and seminars and/or through professional publications and journals. The categories are listed below and are supported by the applicable training. That corresponds with each competency. This list is not all inclusive and will not reference all courses that may have provided instruction on a variety of NFPA 1033 related topics simultaneously.

Fire Science

- Dane County Arson Initiative, Inc. (DCARI) – Corrugated Stainless – Steel Tubing 12/20/2020 1.50 H
- DCARI – Fire Dynamics 11/02/2020 1.50 H
- DCARI – Myths & Legends in Fire Service 10/08/2020 1.50 H
- CFI – Investigating Natural Gas Systems 02/01/2018 3.00 H
- Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) – Advanced Origin and Cause Courtroom Testimony (AOCCT) – Fire Chemistry/Fire Scene Forensics 12/08/2016 1.00 H
- ATF – AOCCT – Fire Dynamics 12/05/2016 1.00 H
- Armstrong Forensic Laboratories, Inc. (AFL) – Fire Debris Analysis 09/16/2011 1.00 H
- North Dakota Chapter – International Association of Arson Investigators Annual Training Conference (ND IAAI – ATC) – Post flashover fires 09/14/2011 8.00 H

Fire Chemistry

- Lithium – Ion Battery Safety Symposium: Challenges for the fire service 03/30/2023 6.75H
- 2022 Annual Training Conference:
Scientific Protocols for Fire Investigation 09/12/2022 16.00 TH
North Dakota State Crime Lab 2.00 H
Round Table 2.00 H
- California Conference of Arson Investigators – Fire Science & Fire Dynamics – Carmen & Associates 07/18/2022 4.00 H
- DCARI – Myths & Legends in Fire Service 10/08/2020 1.50 H
- International Association of Arson Investigators CFITrainer.net (IAAI CFITrainer) – Fire Chemistry 12/31/2019 3.00 H
- IAAI CFITrainer – Investigating Natural Gas Systems 02/01/2018 3.00 TH
- ND – IAAI Quarterly Training – Butane Hash Oil Investigations 04/19/2017 1.00 H
- ATF – AOCCT – Fatal Fire Investigations 12/12/2016 1.00 H
- ATF – AOCCT – Fire Chemistry/Fire Scene Forensics 12/08/2016 2.00 H
- ATF – AOCCT – Fire Dynamics 12/05/2016 1.00 H
- ND – IAAI ATC – Fire Behavior & Fire Dynamics 09/09/2015 2.00 H
- IAAI CFITrainer – Post Flashover Fires 05/07/2015 1.00 TH
- IAAI CFITrainer – Physical Evidence 05/24/2010 1.00 TH
- IAAI CFITrainer – Understanding Fire Through the Candle Experiments 01/23/2009 2.00 TH

- IAAI CFITrainer – Station Nightclub Fire 11/23/2006 1.00 TH

Thermodynamics

- 2022 Annual Training Conference: Scientific Protocols for Fire Investigation North Dakota State Crime Lab Round Table 09/12/2022 16.00 TH
2.00 H
2.00 H
- DCARI – Fire Dynamics 11/02/2020 1.50 H
- ATF – AOCCT – Fire Dynamics 12/05/2016 1.00 H
- ND – IAAI ATC – Fire Behavior and Fire Dynamics 09/09/2015 1.00 H
- IAAI CFITrainer – Post flashover fires 05/07/2015 2.00 TH
- IAAI CFITrainer – Sofa Super Store Fire 05/08/2011 1.00 TH
- IAAI CFITrainer – Explosion Dynamics 12/08/2010 1.00 TH
- IAAI CFITrainer – Ventilation and Fire Investigation 08/30/2008 2.00 TH
- IAAI CFITrainer – Station Nightclub Fire 11/23/2006 1.00 TH

Fire Dynamics

- Fire Pattern Analysis and the Claims Adjuster – Castellon/Nesler 03/17/2024 2.00 TH
- Lithium Ion Battery Fires – ATF EE Michael Abraham 02/11/2023 1.50 TH
- 2022 Annual Training Conference: Scientific Protocols for Fire Investigation 09/12/2022 20.00 TH
- California Conference of Arson Investigators – Fire Science & Fire Dynamics 07/18/2022 4.00 H
- The Fire Origin Matrix – ATF/SA Andy Cox 05/15/2022 2.00 TH
- ND – IAAI Quarterly Training – Lithium – Ion ESS – FSI 04/24/2022 1.00 TH
- Fire Flow Analysis 11/14/2021 3.00 TH
- NDIAAI Quarterly Training – Origin Fire Pattern Persistence 08/03/2021 2.00 TH
- UL – Impact of Ventilation on Fire Patterns 01/31/2021 1.25 TH
- UL – Impact of Ventilation on Fire Patterns 01/31/2021 1.25 H
- DCARI – Fire Patterns Post Flashover 12/28/2020 2.00 H
- DCARI – Corrugated Stainless Steel Tubing 12/20/2020 1.50 H
- DCARI – Fire Dynamics 11/02/2020 1.50 H
- ND – IAAI ATC – Fire Origin Pattern Persistence 09/21/2018 8.00 H
- IAAI CFITrainer – Investigating Natural Gas Systems 02/01/2018 3.00 TH
- ATF – AOCCT – Fire Dynamics 12/05/2016 7.00 H
- Fire & Arson Mag; Fire origin pattern persistence 10/15/2016 1.00 H
- ND – IAAI ATC – Fire Behavior & Fire Dynamics 09/09/2015 8.00 H
- IAAI CFITrainer – Post flashover fires 05/07/2015 1.00 TH
- Fire Cause Analysis (FCA) – Live Fire Training 10/07/2014 5.00 H
- ND – IAAI ATC – Fire Dynamics for Fire Investigators 09/18/2014 4.00 H
- ND – IAAI ATC – Above floor level fires 09/14/2011 4.00 H
- IAAI CFITrainer – Sofa Super Store Fire 05/08/2011 2.00 TH
- IAAI CFITrainer – Explosion Dynamics 02/08/2010 1.00 TH
- IAAI CFITrainer – Physical Evidence 05/24/2010 2.00 TH

• IAAI CFITrainer – Fire Thru Candle Experiments	01/23/2009	2.00 TH
• IAAI CFITrainer – Intro to Fire Dynamics & Modeling	11/23/2006	2.00 TH
• IAAI CFITrainer – Station Nightclub fire	11/23/2006	1.00 TH
• ND – IAAI ATC – Vehicle Fires	08/23/2006	20.00 H

Explosion Dynamics

• DCARI – Corrugated Stainless Steel Tubing	12/20/2020	1.50 H
• IAAI CFITrainer – Investigating Natural Gas Systems	02/01/2018	3.00 TH
• ND – IAAI ATC – Explosion Dynamics Scott Davis	09/21/2017	8.00 H
• ND – IAAI Quarterly training – Butane Hash Oil Investigations	04/19/2017	1.00 H
• FCA – West Texas Explosion	04/04/2017	1.00 H
• ATF – AOCCT – Fuel Air Explosions with Demo	12/12/2016	3.00 H
• IAAI CFITrainer – Explosion Dynamics	02/08/2010	2.00 TH
• IAAI CFITrainer – Fire and Explosion; utilizing NFPA 921 and NFPA 1033	07/05/2009	2.00 TH

Computer Fire Modeling

• DCARI – Fire Dynamics	11/02/2020	1.50 H
• ND – IAAI ATC – Fire Origin Pattern Persistence	09/20/2018	8.00 H
• ATF – AOCCT – Fuel Air Explosions with Demo	12/12/2016	1.00 H
• ND – IAAI Quarterly Training – Fire Modeling 2016	07/20/2016	2.00 H
• IAAI CFITrainer – Intro to Fire Dynamics & Modeling	11/23/2006	2.00 TH
• IAAI CFITrainer – Station Nightclub Fire	11/23/2006	1.00 TH

Fire Investigation

• DCARI – Fire Patterns Post Flashover	12/28/2020	2.00 H
• DCARI – Corrugated Stainless Steel Tubing	12/20/2020	1.50 H
• DCARI – Wildland Fire Investigations	08/27/2020	1.50 H
• ND – IAAI ATC – Fire Origin Pattern Persistence	09/20/2018	8.00 H
• IAAI CFITrainer – Investigating Natural Gas Systems	02/01/2018	3.00 TH
• IAAI CFITrainer – Ethics & Social Media	02/01/2018	1.00 TH
• ND – IAAI ATC – NFPA 921 Application & Use	09/20/2017	4.00 H
• ATF – AOCCT – Mock Trial	12/09/2016	4.00 H
• ATF – AOCCT – Complex Scene Practical	12/09/2016	2.00 H
• ATF – AOCCT – Complex Scene Walk Through/Demo	12/06/2016	2.00 H
• IAAI CFITrainer – Effective Investigation & Testimony	07/08/2016	3.00 TH
• ND – IAAI ATC – Complex Arson Investigation	09/17/2014	3.50 H
• FCA – NFPA 921 (2014) Changes	08/25/2014	2.00 H
• IAAI CFITrainer – Ethics & Fire investigator	11/24/2013	3.00 TH
• IAAI CFITrainer – 2011 921 Changes	12/24/2012	4.00 TH
• ND – IAAI ATC – Documenting scene	09/19/2012	4.00 H
• ND – IAAI ATC – NFPA 921 and NFPA 1033 changes	09/14/2011	4.00 TH
• IAAI CFITrainer – Sofa Super Store Fire	05/08/2011	1.00 TH
• IAAI CFITrainer – First Responder & Investigation	04/21/2011	2.00 TH
• ND – IAAI ATC – Appliance fires	08/19/2009	4.00 H

• IAAI CFITrainer – Ventilation & Fire Investigation	08/30/2008	2.00 TH
• ND – IAAI ATC – Basic Fire Investigation	08/20/2008	20.00 H
• IAAI CFITrainer – Motor Vehicle Fires	02/12/2007	4.00 TH
• ND – IAAI ATC – Fire investigation	08/27/2003	8.00 H
• ND – IAAI ATC – Fire investigation	08/22/2001	8.00 H
• Fire Academy Course – Arson Detection for the 1st Responder	02/20/2000	4.00 H

Fire Analysis

• Fire Pattern Analysis and the Claims Adjuster – Castellon/Nesler	03/17/2024	2.00 TH
• Quarterly Training – Expectations of the Fire Investigator	01/18/2024	2.00 TH
• 2023 Annual Conference: Hands on Vehicle Fire Investigation	09/13/2023	20.00 TH
• Quarterly Training – Fire Photography – Julianna Andersson	07/19/2023	2.00 TH
• Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems	05/10/2023	3.00 TH
• Motor Vehicles: the Engine & the Ignition, Electrical and Fuel Systems	05/10/2023	3.00 TH
• Fire Effects Part 1: Heat Effects on Fuels	04/20/2023	3.00 TH
• Lithium Ion Battery Fires – ATF EE Michael Abraham	02/11/2023	1.50 TH
• Quarterly Training – Fatal Fire Investigations – Derek Hill ATF	01/18/2023	2.00 TH
• 2022 Annual Training Conference: Scientific Protocols for Fire Investigation	09/13/2022	20.00 TH
• DCARI – Forensic Anthropology & Fire Investigations Dr. Cristina Figueroa Soto	10/06/2021	1.00 TH
• NDIAAI Quarterly Training – Origin Fire Pattern Persistence	08/03/2021	2.00 TH
• UL – Impact of Ventilation on Fire Patterns	01/31/2021	1.25 H
• DCARI – Myths & Legends in Fire Service	10/08/2020	1.50 H
• ND – IAAI Quarterly Training – Ignition Matrix	07/15/2020	1.00 H
• ND – IAAI ATC – Fire Origin Pattern Persistence	09/20/2018	8.00 H
• ATF – AOCCT – Review of Burns	12/09/2016	1.50 H
• ATF – AOCCT – Prosecutor Relations	12/09/2016	3.00 H
• ATF – AOCCT – Surviving the Defense Expert Challenge	12/14/2016	1.00 H
• ATF – AOCCT – Facing the Defense Expert Challenge	12/13/2016	4.00 H
• ATF – AOCCT – Current Case Law & NFPA 1033 and NFPA 921	12/13/2016	4.00 H
• ATF – AOCCT – Complex Scene Practical	12/09/2016	7.00 H
• IAAI CFITrainer – Effective Investigation & Testimony	06/08/2016	3.00 TH
• ND – IAAI ATC – Effects of Multiple Ventilation Openings	09/17/2014	4.00 H
• IAAI CFITrainer – Critical Thinking Solves Cases	02/18/2013	2.00 TH
• IAAI CFITrainer – Fatal Fires	07/08/2008	4.00 TH

Fire Investigation Methodology

• Quarterly Training – Expectations of the Fire Investigator	01/18/2024	2.00 TH
• 2023 Annual Conference: Hands on Vehicle Fire Investigation	09/13/2023	20.00 TH
• Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems	05/10/2023	3.00 TH
• Motor Vehicles: the Engine & the Ignition, Electrical and Fuel Systems	05/10/2023	3.00 TH
• Fire Effects Part 1: Heat Effects on Fuels	04/20/2023	3.00 TH
• Lithium Ion Battery Fires – ATF EE Michael Abraham	02/11/2023	1.50 TH

• Quarterly Training – Fatal Fire Investigations – Derek Hill ATF	01/18/2023	2.00 TH
• NFPA 1321 Fire Investigation Units – DCI State FM William Boswell	01/18/2023	1.00 TH
• Quarterly Training – NFPA 1321 – Randy Watson	10/27/2022	2.00 TH
• 2022 Annual Training Conference:	09/13/2022	
Scientific Protocols for Fire Investigation		16.00 TH
North Dakota State Crime Lab		2.00 TH
Round Table		2.00 TH
• Quarterly Training – Case Study – Maternal Filicide	09/08/2022	2.00 TH
• IAAI CFITrainer – NFPA 1033 and Your Career	05/24/2022	2.00 TH
• The Fire Origin Matrix – ATF/SA Andy Cox	05/15/2022	2.00 TH
• Arson Profiling/BAU – ATF Melissa Merola	11/18/2021	1.50 TH
• IAAI CFITrainer – Fundamentals Of Interviewing	11/16/2021	4.00 TH
• IAAI CFITrainer – Fire Investigation for Fire Officers	11/16/2021	3.00 TH
• DCARI – Thomas Sweatt Case Study – ATF Fulkerson & Deputy FM Lockett	11/14/2021	3.50 TH
• NDIAAI Quarterly Training – Origin Fire Pattern Persistence	08/03/2021	2.00 TH
• DCARI – Fire Patterns Post Flashover	12/28/2020	2.00 H
• Dane County Arson Response Initiative – Timeline Analysis	05/31/2020	1.00 H
• IAAI CFITrainer – Understanding Undetermined	12/22/2018	3.00 TH
• ND – IAAI ATC – Fire Origin Pattern Persistence	09/20/2018	8.00 H
• IAAI CFITrainer – Ethics & Social Media	02/01/2018	1.00 TH
• ND – IAAI ATC – NFPA 921 Changes	09/19/2017	8.00 H
• ATF – AOCCT – Complex Scene Practical	12/09/2016	1.00 H
• IAAI CFITrainer – Magnetek/Daubert	02/18/2013	2.00 TH
• IAAI CFITrainer – Validating Hypothesis	01/18/2013	2.00 TH
• IAAI CFITrainer – Fire & Explosion Investigations Utilizing NFPA 921 and NFPA 1033	07/05/2009	2.00 TH
• IAAI CFITrainer – Complex Fire Scene	09/01/2008	4.00 TH
• IAAI CFITrainer – Scientific Method	07/20/2007	3.00 TH
• ND – IAAI ATC – Fire investigation	08/27/2003	8.00 H
• ND – IAAI ATC – Fire investigation	08/22/2001	8.00 H

Fire Investigation Technology

• Quarterly Training – Fire Photography – Julianna Andersson	07/19/2023	2.00 TH
• Internet of Things (IOT)	02/21/2022	1.50 TH
• DCARI – Digital Evidence	03/18/2021	1.50 H
• Fire Cause Analysis – Evidence & Engineering	02/23/2021	2.75 H
• ND – IAAI Quarterly Training – Fire Safer Cigarettes	10/21/2019	2.00 H
• ND – IAAI ATC – Strategic Social Media for Fire Invest	04/19/2018	4.00 H
• IAAI CFITrainer – Investigating Natural Gas Systems	02/01/2018	3.00 TH
• IAAI CFITrainer – DNA	10/16/2017	3.00 TH
• ND – IAAI ATC – Accelerant Detection Dog presentation	09/20/2017	4.00 H
• ND – IAAI Quarterly Training – UL Class	07/19/2017	2.00 H
• ND – IAAI Quarterly Training – Accelerant K – 9 course	10/19/2016	2.00 H

• ND – IAAI ATC – Complex Arson Investigation	09/17/2014	2.00 TH
• IAAI CFITrainer – Insurance & the Fire Investigator	02/20/2012	4.00 TH
• ND – IAAI ATC – Forensic Evaluation of Lubricants	09/14/2011	4.00 H
• IAAI CFITrainer – Digital photography	12/13/2009	4.00 TH

Failure Analysis and Analytical Tools

• Fire Effects Part 1: Heat Effects on Fuels	04/20/2023	3.00 TH
• The Fire Origin Matrix – ATF/SA Andy Cox	05/15/2022	2.00 TH
• DCARI – Arson Profiling/Behavioral Analysis Unit	01/26/2021	1.50 H
• ND – IAAI Quarterly Training – Ignition Matrix	07/15/2020	1.00 H
• IAAI CFITrainer – Ethical Duties Beyond the Fire Scene	12/31/2019	3.00 TH
• ND – IAAI ATC – Electrical Fire Investigation	09/21/2018	4.00 H
• ATF – AOCCT – Fatal Fire Investigations	12/12/2016	1.00 H
• ATF – AOCCT – Complex Scene Practical	12/09/2016	1.00 H
• IAAI CFITrainer – Basic Electricity	03/19/2014	1.00 TH
• IAAI CFITrainer – Critical Thinking Solves Cases	02/18/2013	2.00 TH

Fire Protection Systems

• Dane Co. Arson Response Initiative – Fire Alarm Control Panels	05/24/2020	1.00 H
• ATF – AOCCT – Building Construction	12/12/2016	2.00 H
• ATF – AOCCT – Fire Protection Systems	12/06/2016	4.00 H
• IAAI CFITrainer – Residential Building Construction	12/21/2014	3.00 TH
• ND – IAAI ATC – Building Construction	09/19/2012	4.00 H
• International Fire Code transition from 1997 Uniform Fire Code	10/22/2004	0.50 H

Evidence Documentation, Collection and Preservation

• 2023 Annual Conference: Hands on Vehicle Fire Investigation	09/13/2023	20.00 TH
• Quarterly Training – Fire Photography – Julianna Andersson	07/19/2023	2.00 TH
• Fire Effects Part 1: Heat Effects on Fuels	04/20/2023	3.00 TH
• Lithium Ion Battery Fires – ATF EE Michael Abraham	02/11/2023	1.50 TH
• Quarterly Training – Fatal Fire Investigations – Derek Hill ATF	01/18/2023	2.00 TH
• IAAI, Inc – What Happens with loss goes to court – Chris Konzelmann	09/28/2021	1.00 TH
• IAAI, Inc – Giving Stronger Depo & Trial Testimony – Chris Konzelmann	06/01/2021	2.00 TH
• DCARI – Digital Evidence	03/18/2021	1.50 H
• ND – IAAI Quarterly Training – Expert Report Writing	01/20/2021	2.00 H
• DCARI – Fire Patterns Post Flashover	12/28/2020	2.00 H
• DCARI – Report Writing – Public Sector	09/23/2020	1.50 H
• DCARI – Wildland Fire Investigations	08/27/2020	1.00 H
• DCARI – Fire Investigation Report Writing	06/08/2020	1.00 H
• ND – IAAI ATC – Camera & Lighting Techniques for Fire Scenes	09/19/2018	4.00 H
• IAAI CFITrainer – Investigating Natural Gas Systems	02/01/2018	3.00 TH
• IAAI CFITrainer – Ethics & Social Media	02/01/2018	1.00 TH
• IAAI CFITrainer – Evidence Examination: What Happens at the Lab?	09/17/2017	4.00 TH
• ATF – AOCCT – CV/Resume	12/09/2016	1.00 H

• ATF – AOCCT – Complex Scene Practical	12/09/2016	1.00 H
• ATF – AOCCT – Fire Chemistry/Fire Scene Forensics	12/08/2016	1.00 H
• ATF – AOCCT – Report Writing	12/06/2016	2.00 H
• ND – IAAI Chapter Training – Accelerant K – 9	10/19/2016	2.00 H
• ND – IAAI ATC – Residential Electrical & Gas Systems	09/10/2015	4.00 H
• ND – IAAI ATC – Interviewing	09/19/2012	4.00 H
• ND – IAAI ATC – Report Writing	09/19/2012	4.00 H
• IAAI CFITrainer – Search & Seizure	04/16/2012	4.00 TH
• Armstrong Forensic Laboratory, Inc – Identifying the source	09/16/2011	1.50 H
• IAAI CFITrainer – Physical Evidence	05/24/2010	1.00 TH
• IAAI CFITrainer – Documenting the Event	12/13/2009	4.00 TH
• ND – IAAI ATC – Documenting the Scene	08/19/2009	4.00 H
• ND – IAAI ATC – Report Writing	08/19/2009	4.00 H
• ND – IAAI ATC – Evidence Collection	08/19/2009	4.00 H
• ND – IAAI ATC – Interviewing	08/19/2009	4.00 H
• IAAI CFITrainer – Introduction to Evidence	11/09/2007	4.00 TH
• ND – IAAI & ATF – IAAI Courtroom Testimony	08/22/2007	20.00 H

Hazardous Materials

• ND – IAAI Quarterly Training – Lithium – Ion ESS – FSI	04/24/2022	1.00 TH
• NDIAAI Chapter Training – Clandestine Labs – Chris Holte FPD	04/21/2021	2.00 TH
• Safety Unlimited – Asbestos Awareness Training	08/27/2020	1.00 H
• Safety Unlimited – Lead Awareness Training for General Industry	08/11/2020	1.00 H
• Argus Pacific – Asbestos Awareness & Lead Awareness	09/26/2016	1.00 H
• ND – IAAI ATC – Complex Arson Investigation	09/17/2014	1.00 H
• ND – IAAI ATC – Safety/Hazmat	09/19/2012	4.00 H
• IAAI CFITrainer – Vacant/Abandoned Buildings	06/15/2009	4.00 TH
• IAAI CFITrainer – Scene Safety	07/07/2006	3.00 TH
• (c) Safety Regulations		
• ND Firemen's Assoc – Hazmat Operation & Awareness Certificate	03/31/2022	2.00 TH
• IAAI CFITrainer – Electrical Safety	11/22/2010	3.00 TH

Building systems

(a) Types of Construction

• ATF – AOCCT – Building Construction	12/12/2016	2.00 TH
• IAAI CFITrainer – Residential Building Construction	12/21/2014	3.00 TH
• ND – IAAI ATC – Building Construction	09/19/2012	4.00 TH

(b) Fire Protection Systems

• Dane Co. Arson Response Initiative – Fire Alarm Control Panels	05/24/2020	1.00 TH
• ATF – AOCCT – Building Construction	12/12/2016	2.00 TH
• ATF – AOCCT – Fire Protection Systems	12/06/2016	4.00 TH
• IAAI CFITrainer – Residential Building Construction	12/21/2014	3.00 TH
• ND – IAAI ATC – Building Construction	09/19/2012	4.00 TH

● International Fire Code transition from 1997 Uniform Fire Code	10/22/2004	0.50 H
(c) Electricity and Electrical Systems		
● 2023 Annual Conference: Hands on Vehicle Fire Investigation	09/13/2023	20.00 TH
● Electric & Hybrid Vehicle Design Basics	05/26/2022	3.00 TH
● Electric & Hybrid Vehicle Fires	05/26/2022	3.00 TH
● Dane County Arson Response Initiative – Receptacle Fires	05/14/2020	1.00 H
● DCARI – Identifying Damage to Electrical Connectors	05/12/2020	1.00 H
● ND – IAAI ATC – Electrical Fire Investigation	09/21/2018	4.00 H
● ATF – AOCCT – Appliance Fires with Demo	12/08/2016	4.00 H
● ATF – AOCCT – Electrical Aspects of Fire Scenes with Lab	12/07/2016	4.00 H
● ND – IAAI ATC – Residential Electrical & Gas Systems	09/10/2015	4.00 H
● IAAI CFITrainer – Residential Electrical	06/14/2015	4.00 TH
● ND – IAAI ATC – Complex Arson Investigation	09/17/2014	4.00 H
● IAAI CFITrainer – Basic Electricity	03/19/2014	1.00 TH
● NFPA – Responding to Electrical Vehicle Battery Fires Webinar	02/11/2014	2.00 H
● IAAI CFITrainer – Electrical Safety	11/22/2010	3.00 TH
● IAAI CFITrainer – Arc Mapping	09/29/2010	4.00 TH
(d) Fuel Gas Systems		
● Dane County Arson Initiative, Inc. (DCARI) – Corrugated Stainless – Steel Tubing	12/20/2020	1.50 TH
● International Association of Arson Investigators CFITrainer.net (IAAI CFITrainer) – Investigating Natural Gas Systems	02/01/2018	3.00 TH
● ATF – AOCCT – Fuel Air Explosions with Demo	12/12/2016	1.00 TH
● ND – IAAI ATC – Residential Electrical and Gas Systems	09/10/2015	1.00 TH
● IAAI CFITrainer – Charting Career Path in Fire Investigation	11/25/2021	3.00 TH
● ATF – AOCCT – Mock Trial	12/09/2016	4.00 TH
● ATF – AOCCT – Complex Scene Practical	12/09/2016	2.00 TH
● ATF – AOCCT – Complex Scene Walk Through/Demo	12/06/2016	2.00 TH
● IAAI CFITrainer – Effective Investigation & Testimony	07/08/2016	3.00 TH
● ND – IAAI ATC – Complex Arson Investigation	09/17/2014	3.50 TH
● FCA – NFPA 921 (2014) Changes	08/25/2014	2.00 H
● IAAI CFITrainer – Ethics & Fire investigator	11/24/2013	3.00 TH
● IAAI CFITrainer – 2011 921 Changes	12/24/2012	4.00 TH
● ND – IAAI ATC – Documenting scene	09/19/2012	4.00 TH
● ND – IAAI ATC – NFPA 921 and NFPA 1033 changes	09/14/2011	4.00 TH
● IAAI CFITrainer – Sofa Super Store Fire	05/08/2011	1.00 TH
● IAAI CFITrainer – First Responder & Investigation	04/21/2011	2.00 TH
● ND – IAAI ATC – Appliance fires	08/19/2009	4.00 TH
● IAAI CFITrainer – Ventilation & Fire Investigation	08/30/2008	2.00 TH
● ND – IAAI ATC – Basic Fire Investigation	08/20/2008	20.00 TH
● IAAI CFITrainer – Motor Vehicle Fires	02/12/2007	4.00 TH
● ND – IAAI ATC – Fire investigation	08/27/2003	8.00 TH
● ND – IAAI ATC – Fire investigation	08/22/2001	8.00 TH

- Fire Academy Course – Arson Detection for the 1st Responder 02/20/2000 4.00 H

Deposition & Trial Testimony

- Ace American Insurance Company vs Ferrellgas, Inc. and Ferrellgas, LP – Deposition
51-2021-CV-386 consolidated with 51-2021-CV-177 January 12, 2023
- National Surety Corp vs Black & Decker (U.S.) Inc. – Deposition
1:20-cv-00083 June 30, 2021
- Sentry Select Insurance Company vs Norcold, Inc. – Deposition
08-2020-CV-1921 July 12, 2021
- State of North Dakota vs Josh Schmidt
Morton County District Court
30-2019-CR-854 Filed August 22, 2019
Testified June 22, 2021
- USA vs Anthony DeGroot
ND US Federal Court
1:14-cr-00191 February 15, 2015
Testified as a fire origin and cause forensic expert