

Andrew Paris

PE, CFEI, CVFI

Sr. Managing Consultant



Andrew Paris is a Registered Professional Engineer and Certified Fire and Explosion Investigator with diverse experience in electrical engineering, fire investigation, product design, and failure analysis. He provides investigation services, litigation support and expert testimony to law firms and insurance companies, as well as technical support to manufacturers and industrial clients. His investigative casework includes residential, commercial, and industrial fire and explosion investigations, product failure analysis, heavy equipment accidents and failures, personal injuries, electrocution and electric shock investigations, arc-flash analysis, lightning damage, and the examination of water, fire, and/or smoke-damaged electrical equipment.

Mr. Paris has conducted over 1,200 failure and fire analysis projects related to residential, commercial, industrial, and utility electrical power systems, as well as various electrical equipment and devices, including refrigeration and HVAC, household appliances, electronics, batteries, electrical motors, transformers, control equipment, wiring, lighting fixtures/lamps, AC/DC drive systems, and vehicle electrical systems.

Furthermore, Mr. Paris worked as a manufacturing and design engineer for an electrical current transformer manufacturer. He has also assisted manufacturers with root cause analysis and product safety design, provided site design/construction/code compliance reviews of electrical systems, developed electrical safety training for industrial clients, and examined specialized industrial machinery for compliance with electrical safety standards.

Education

BS, Electrical Engineering (History Minor). North Dakota State University. 2002

Licenses & Certifications

- State of Arizona P.E. (Electrical) License 47896
- State of Minnesota P.E. (Electrical) License 45901
- State of Washington P.E. (Electrical) License 50340

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ESi Minneapolis

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Areas of Specialization

- Electrical Engineering
- Fire & Explosion Investigation
- Product Design
- Failure Analysis
- Personal Injury

- NAFI Certified Fire and Explosion Investigator (CFEI) 23185-13393
 - NAFI Certified Vehicle Fire Investigator (CVFI) 23185-13393
 - OSHA Certified Hazardous Waste Operations and Emergency Response (HAZWOPER)
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Positions Held

Engineering Systems Inc., Minneapolis, Minnesota

- Sr. Managing Consultant, 2026 – Present

Jensen Hughes, Inc., Minneapolis, Minnesota

- Technical Director, Forensic Electrical Engineering, 2020–2026
- Principal Electrical Engineer/Director, Fire Forensics Central, 2018–2020
- Senior Electrical Engineer, 2017

Case Forensics Corp., Seattle, Washington

- Senior Electrical Engineer, 2012 – 2017

Anderson Engineering of New Prague, Inc., New Prague, Minnesota

- Forensic Electrical Engineer, 2003–2012

Midwest Current Transformer, New Prague, Minnesota

- Design/Manufacturing Engineer, 2003–2012

Capital Electric Cooperative, Bismarck, North Dakota

- Engineering Intern, 1999, 2001 & 2002

Schaff Engineering, Fargo, North Dakota

- Engineering Intern, 2000
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Continuing Education

- **Annual Conference** – National Association of Subrogation Professionals (NASP), 2009, 2022, 2024, 2025
- **Fire Science and Litigation Conference** – Defense Research Institute (DRI), 2018, 2021, 2023, 2025
- **Annual Fire Investigation Conference** – International Association of Arson Investigators (IAAI), Minnesota Chapter, 2004–2012, 2022–2025
- **Ethical Decision Making for Engineers** – Red Vector, 2014–2024
- **Spring Conference** – NASP, 2023
- **Annual Conference** – National Fire Protection Association (NFPA), 2022

- **USGC Risk Mitigation, Series 2: Put the Fire Out** – American Boating and Yachting Council (ABYC), 2022
- **Wildfire Mitigation for Utilities Summit** – Electric Utility Consultants, Inc. (EUCI), 2022
- **Mitigation of VFD Induced Bearing Damage** – AEGIS, 2022
- **Vehicle Fire, Arson, & Explosion Investigation Training Program** – National Association of Fire Investigators (NAFI), 2021
- **Annual Conference** – IAAI, Oklahoma Chapter, 2019
- **Annual Product Safety & Liability Prevention Conference** – International Product Safety & Liability Prevention Association (IPSLPA), 2019
- **Cannabis Law Seminar** – DRI, 2019
- **Forensic Investigation Training Seminar** – Jensen Hughes, 2018
- **Expert Witness Seminar** – Pacific Northwest Network of Forensic Expert Witnesses, 2017
- **Asbestos Awareness Training** – Safety Unlimited Inc., 2016
- **Assessment of Hazardous Voltage/Current in Marinas, Boatyards and Floating Buildings Webinar** – NFPA, 2016
- **Hazardous Waste Operations and Emergency Response (HAZWOPER) 8-Hour Refresher Course** – Compliance Solutions, 2015
- **Electrical Insulation Conference** – Institute of Electrical and Electronic Engineers (IEEE), 2015
- **Asbestos Awareness Training** – RGA Environmental, 2012
- **Hazardous Waste Operations and Emergency Response (HAZWOPER) Compliance Refresher** – IAAI, Minnesota Chapter, 2012
- **Commercial Kitchen Fires Webinar** – NASP, 2012
- **Identifying the “Positive” in the Negative Corpus & Other Aspects of Fire Investigation & Subrogation** – Whitemore Fire Consultants, Inc. 2012
- **Engineers Leadership Institute** – Minnesota Society of Professional Engineers, 2011–2012
- **Engineering Ethics** – Minnesota Society of Professional Engineers, 2011
- **Burn to Learn Seminar** – IAAI, Minnesota Chapter, 2007, 2010
- **Expert Witness Courtroom Testimony Course** – IAAI, North Dakota Chapter, 2010
- **Asbestos Awareness Training** – J.J. Keller & Assoc., 2010
- **Fall Protection** – J.J. Keller & Assoc., 2010
- **Confined Spaces: Dangerous Places** – J.J. Keller & Assoc., 2010
- **The Scientific Method for Fire and Explosion Investigation** – IAAI, CFITrainer.net, 2010

- **Annual Claims Seminar** – South Dakota Claims Association, 2009
- **Hazardous Waste Operations and Emergency Response (HAZWOPER) 8-Hour Refresher Course** – Compliance Solutions, 2010, 2012
- **OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-Hour Training and Certification** – Compliance Solutions, 2009
- **Spring Conference** – IAAI, Wisconsin Chapter, 2009
- **Annual Fire Investigation Conference** – IAAI, North Dakota Chapter, 2003, 2006, 2007, 2008, 2012
- **Effectively Handling Fire Litigation Seminar** – Minnesota Continuing Legal Education, 2007
- **Fire & Subrogation Seminar** – Unified Investigations & Sciences, Inc., 2005
- **Spring & Fall Seminars** – IAAI, Wisconsin Chapter, 2005
- **HAZWOPER / OSHA Compliance Refresher** – IAAI, Minnesota Chapter, 2005
- **Annual Fire Investigation Conference** – IAAI, Illinois Chapter, 2004

Professional Affiliations/Honors

Institute of Electrical and Electronic Engineers

- Member

National Fire Protection Association

- Technical Committee Member, NFPA 790, Standard for Competency of Third-Party Field Evaluation Bodies, 2020 – Present
- Technical Committee Member, NFPA 791, Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation, Electrical Equipment Evaluation (EEE-AAA), 2020 – Present
- Technical Committee Alternate, NFPA 1033, Standard for Professional Qualifications for Fire Investigator, Fire Investigator Professional Qualifications, 2018 – Present
- Task Group Member, NFPA 921: Guide for Fire and Explosion Investigations, Electrical Arc Mapping Task Group, 2020–2021

National Association of Fire Investigators

- Member

International Association of Arson Investigators

- Member, Minnesota Chapter

Publications

“How to Detect, Eliminate Common Fire Hazards in Cannabis Cultivation Operations,” **A. Paris**, MJBizDaily.com, August 2021.

“The Case of the Concrete Cutting Catastrophe,” **A. Paris**, Electrical Construction & Maintenance, 2012.

“The Case of the Shocking Power Washer,” **A. Paris**, Electrical Construction & Maintenance, 2010.

“The Case of the Blinding Arc Blast,” **A. Paris**, Electrical Construction & Maintenance, 2008.

“The Case of the Houseboat Electrocution,” **A. Paris**, Electrical Construction & Maintenance, 2008.

“The Case of the Shocking Sealing Machine,” **A. Paris**, Electrical Construction & Maintenance, 2008.

“The Case of the Conveyor Catastrophe,” **A. Paris**, Electrical Construction & Maintenance, 2007.

Presentations

“UL Certification: A Sure Fire Stopper?” **A. Paris**, S. Shuck, and A. Morrone, NASP Annual Conference, San Diego, CA, October 2025.

“Live Burn Class Instruction and Data Analysis Presentation: Fire Scene Investigations,” **A. Paris**, et al., DRI Fire Science and Litigation Seminar, Austin, TX, September 2025.

“Do You Recall the CPSC,” **A. Paris**, D. Burns, and G. Waguespack, NASP Annual Conference, Phoenix, AZ, October 2024.

“Live Burn Class Instruction and Data Analysis Presentation: Fire Scene Investigations,” **A. Paris**, et al., DRI Fire Science and Litigation Seminar, Washington, DC, August 2023.

“Understanding Fire Through a Room and Contents Live Burn Event: The Evidence Exam,” **A. Paris**, J. March, and C. Konzelmann, NASP Spring Conference, Amelia Island, FL, February 2023.

“Keeping the Lights On: A Primer for Handling Cases Against Utilities from Notice to Recovery,” **A. Paris**, G. Sara, and L. Skaf, NASP Spring Conference, Amelia Island, FL, February 2023.

“3D Scanning, Matterport, and Investigation Technology,” **A. Paris** and B. Whitemore, IAAI Minnesota Chapter, Maple Grove, MN, April 2022.

“Cause of Fire vs. Cause of Loss,” **A. Paris**, R. Thompson, and J. Sotland, Millers Mutual Insurance and IAT Insurance, CLE Webinar, Virtual, September 2021.

“Live Burn Class Instruction and Data Analysis Presentation,” **A. Paris**, et al., DRI Fire Science and Litigation Seminar, Washington, DC, September 2021.

“Live Burn Technology: Fire Scene Investigations Presentation,” **A. Paris**, et al., DRI Fire Science and Litigation Seminar, Washington, DC, September 2021.

“Handling Claims During COVID-19,” **A. Paris**, et. al, NASP, Cozen O’Connor, Yost & Bail, Nielsen Zehe Antas, Grotefeld Hoffman, CLE Webinar, Virtual, May 2020.

“Field Forensics: Best Practices & Case Studies,” **A. Paris**, Kennedy & Graven Chartered, CLE Presentation, Minneapolis, MN, February 2020.

“Electrical Forensics: The Basics and Field Investigations,” **A. Paris**, Cozen O’Connor, PC, CLE Presentation, Chicago, IL, November 2019.

“Marijuana Grow Operations,” **A. Paris** and C. Woodall, IAAI Oklahoma Chapter Annual Conference, Tulsa, OK, October 2019.

“Product Failure Forensics,” **A. Paris**, IPSLPA Annual Product Safety & Liability Prevention Conference, Milwaukee, WI, May 2019.

“Sky-High Explosions + Fires: Now What?” **A. Paris**, DRI Cannabis Law Seminar, Washington, DC, May 2019.

“Fire Forensics: Firing on All Cylinders (Investigation and Liability Issues),” **A. Paris**, Sandberg Phoenix & von Gontard, PC, CLE Presentation, Kansas City, MO, December 2018.

“Fire Forensics: Firing on All Cylinders (Investigation and Liability Issues),” **A. Paris**, Washington Defense Trial Lawyers Annual Tort Law Update, Seattle, WA, December 2017.

“Writing a Killer Report,” **A. Paris** and K. Rice, Pacific Northwest Network of Forensic Expert Witnesses Expert Witness Seminar, Seattle, WA, October 2017.

“Fire Investigations 101,” **A. Paris** and K. Rice, The Marine Insurance Association of Seattle Annual Day of Education, Seattle, WA, May 2016.

“Electrical Fires, Failures and Injuries & Potential Liability Issues,” **A. Paris**, Puget Sound Adjusters Association Monthly Luncheon, Tukwila, WA, 2015.

“Investigating Black Holes,” **A. Paris** and G. St. Onge, IAAI Wisconsin Chapter Spring Conference, Wausau, WI, 2005.