# Resume of
# John J. Lentini, CFI, ABC-GKE

**Scientific Fire Analysis, LLC**
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## Capabilities

He can investigate fire or explosion scenes, locate the point of origin, determine the cause, and chemically determine the presence of ignitable liquid residues. He can evaluate the validity of the work of other investigators through review of reports, testimony, photographs, and other data. He is familiar with fire and building codes and can determine whether a structure, product, service, or installation met applicable code requirements prior to a fire or other loss. He is capable of performing all types of chemical and instrumental analyses and giving expert testimony as to the results of his investigations and analyses. He also provides fire investigator training worldwide.

## Scientific Fire Analysis Responsibilities

President and Principal Investigator. Provides training to fire investigators, fire litigators and the public. Conducts preliminary evaluations of customer problems. Supervises or reviews investigations in the areas of fire, arson, explosion, and asphyxiation, including review of chemical analysis issues. Prepares and presents expert testimony. Provides litigation support. Conducts training seminars for fire investigators and attorneys.

## Education

B.A. in the Natural Sciences (Chemistry, Biology, Physics), New College, Sarasota, FL, June 1973.
Postgraduate courses in Chemistry and Criminal Investigation, University of Akron, OH, 1973-74.
Twenty credit hours Graduate Level Chemistry, Georgia State University, Atlanta, GA, 1979-80.

## Training

Short Course in Instrumental Analysis, F.B.I. Academy, Quantico, VA, 1976.
Seminar on Arson and Fraud Investigation, University of Alabama at Birmingham, 1979.
Seminar on Gas Fires and Explosions, University of Alabama at Birmingham, 1980.
33rd, 35th, 37th, 39th, 40th, 42nd, 59th, 61st, 67th, 70th, 72nd, 73rd and 75th International Association of Arson Investigators (IAAI) Annual Seminars, 1982-2024.
Southeast Arson Seminar, University of Georgia, 1979-84, 1996, 2002.
American Academy of Forensic Sciences (AAFS), Annual Meetings, 1988-2024.
National Fire Protection Association (NFPA) Life Safety Code Seminar, Nashville, TN, 1991.
IAAI Electrical Fire Investigation Seminar, Atlanta, GA 1991.
AAFS Workshop on Contemporary Issues of Fire Investigation and Analysis (Panelist) Seattle, WA, 1995.
FBI International Symposium on the Forensic Aspects of Arson Investigations, Fairfax, VA, 1995.
Georgia Fire Investigators Association (GFIA) Seminar on Appliance Fires, Decatur, GA, 1997.
Workshop on Fire Investigations, Forensic Science Society, Harrogate, England, 1997.
Anglo-American Fire Investigation Conference, Brunel University, Uxbridge, England, 1997.
Forensic Fire Engineering and Failure Analysis, Society of Fire Protection Engineers (SFPE), 1998.
International Fire Investigation Conference, Brunel University, Uxbridge, England, 1999.
Fire Litigation Seminar, National Association of Fire Investigators (NAFI)/NFPA, Sarasota, FL, 2000.
Lightning 101, Global Atmospherics, Inc., Atlanta, GA, 2000.

**Training (continued)**

Technical Working Group on Fire and Explosion Investigations, 2nd, 3rd and 4th Annual Symposia, Orlando, FL, 2002-2004.
Fire Dynamics Seminar, NFPA Technical Committee on Fire Investigations, Baltimore, MD, 2003.
First International Symposium on Fire Investigation, Fire Service College, Moreton, England, 2004.
10th International Fire Science & Engineering Conference (Interflam), Edinburgh, Scotland, 2004.
Introduction to Fire Dynamics Simulator and Smokeview, SFPE, Chicago, IL, 2004.
International Fire Investigation Conference, Brunel University, Uxbridge, England, 2005.
Second International Symposium on Fire Investigation, University of Cincinnati, Cincinnati OH, 2006.
Third International Symposium on Fire Investigation, University of Cincinnati, Cincinnati OH, 2008.
Fourth International Symposium on Fire Investigation, University of Maryland, Columbia, MD, 2010.
International Association of Arson Investigators Annual Training Conference, Las Vegas, NV, 2011, 2014.
Fifth International Symposium on Fire Investigation, University of Maryland, Columbia, MD, 2012.
Australian Associations of Fire Investigators, Achieving Better Outcomes, Gold Coast, QLD, 2014.
Canadian National Advanced Fire, Arson and Explosion Training Conference, Markham, ON, 2015
Louisiana Association of Arson Investigators, Annual Training Conference, Baton Rouge, LA, 2015
Canadian National Advanced Fire, Arson and Explosion Training Conference, Markham, ON, 2016.
The New Impact: NFPA 921-2021 edition and NFPA 1033-2022 edition, National Association of Subrogation Professionals, online 2020.

**CFI Trainer.net modules**

The Scientific Method for Fire and Explosion Investigations, 2006.
Introduction to Fire Dynamics and Modeling, 2008.
A Ventilation-Focused Approach to the Impact of Building Structures and Systems on Fire Development, 2009.
Post Flashover Fires, 2009.
Motive, Means and Opportunity: Determining Responsibility in an Arson Case, 2010.
Evidence Examination: What Happens at the Lab?, 2011.
Understanding Fire Through the Candle Experiments, 2011.
The Practical Application of the Relationship Between NFPA 1033 and NFPA 921, 2013.
NFPA 921 and 1033 2014 Editions: Important Revisions, 2014.
Fundamentals of Residential Building Construction, 2014.
Wildland Fire Investigation, 2014.
Electrical Safety, 2014.
Residential Natural Gas Systems, 2015.
Thermometry, Heat and Heat Transfer, 2017.
Fire Investigator Scene Safety, 2017.
Fire Chemistry, 2018.
Arc Mapping Basics, 2018.
NFPA 1033 and Your Career, 2020.
Accreditation, Certification and Certificates, 2021.
Lithium-ion Battery Fires, 2021.
IAAI Live Event: Report Writing for Fire Investigators, online 2021.
NFPA 1033 & 921: 2022/2021 Editions Important Updates, 2022.

**Professional Certifications and Licensure**

He holds certifications from both the International Association of Arson Investigators (IAAI) and the National Association of Fire Investigators (NAFI). He is also a certified Criminalist of the American Board of Criminalistics (ABC). He held ABC Fellow status with a specialty in Fire Debris Analysis from 1993 to 2008.

He holds Florida private investigator's license number C 2600083. Florida has reciprocal license agreements with the following states: CA, GA, LA, NC, OK, TN, VA.

## Experience

**Applied Technical Services, Inc.** January 1978 - October 2006
Manager, Fire Investigations. Authored over 3,000 technical reports. Supervised two fire investigators and an electrical engineer. Managed a chemical analysis laboratory for fire debris using gas chromatography-mass spectrometry (GC-MS). Analyzed more than 20,000 fire debris samples. Served as project manager for major fire investigations. Conducted over 2,000 fire scene inspections. Conducted chemical analyses, designed and conducted physical experiments to re-create fire scenarios. Provided training, consulting, and expert witness testimony.

**Metallurgical Engineers of Atlanta** May - December 1977
Fire scene inspection. Chemical analysis of fire debris. Quantitative chemical and physical analysis on all types of metal. Radiographic inspection of fittings and welds.

**State of Georgia Crime Laboratory** August 1974 - May 1977
Qualitative and quantitative analysis of all types of physical evidence associated with violent and/or property crimes and testifying to the results of such analyses. Responding statewide to conduct field investigations for law enforcement agencies. Instruction of law enforcement officers in the collection and preservation of physical evidence.

## Courtroom Experience

Since 1975, he has given expert testimony in over two hundred cases in civil and criminal court in several states and in the Federal Courts. He has testified for both Plaintiffs and Defendants and has been appointed three times as a neutral (Rule 706) expert hired to advise the Court. A schedule of testimony is available upon request.

## Professional Associations

Member, NFPA Technical Committee 1033 on Fire Investigator Professional Qualifications, 2012-present.
Member, NIJ/NIST Organization of Scientific Area Committees (OSAC), Subcommittee on Fire and Explosion Investigation, 2014-present.
Member, National Fire Protection Association (NFPA) Technical Committee 921 on Fire Investigations, 1996-2018. (Representing ASTM Committee E30 on Forensic Sciences)
Fellow of the American Academy of Forensic Sciences (AAFS) 1995-present. (Member since 1988)
AAFS Criminalistics Section: Chair, Nominating Committee, 1999-2007, Co-chair Program Committee 2012, Chair, Program Committee 2013, Section Secretary, elected 2014, Section Chair, elected 2015.
Member, AAFS Ethics Committee, 2019-present. Chair 2022-2025.
Chair, ASTM Committee E30 on Forensic Sciences, elected 1999, re-elected 2001 and 2003. (Member since 1988)
Director, American Board of Criminalistics (ABC), elected 1993, re-elected 1996.
Chair, ABC Proficiency Administration Committee, 1993-1999.
Member, Editorial Board, *Journal of Forensic Sciences*, 2003-2018.
Peer Reviewer, *Forensic Science International*, 2006-present.
Peer Reviewer, *Fire Safety Journal*, 2016-present.
Peer Reviewer, *Fire and Materials*, 2021-present.
Peer Reviewer, *Forensic Chemistry*, 2021-present.
Member, Scientific Working Group on Fire and Explosion Investigations (SWGFEX), 1997-2014.
Member of the National Association of Fire Investigators (NAFI), 1996-present.
Member of the International Association of Arson Investigators (IAAI), 1978-2001, 2008-present.
Member of the Florida Chapter of the IAAI, 2008-present.
Chair, IAAI Forensic Science Committee, 1988-1991.
Member of the American Chemical Society (ACS), 1978-present.
Member of the American Association for the Advancement of Science (AAAS), 2016-present.

## Publications

### Books

*Scientific Protocols for Fire Investigation*, First Edition, 2006, Second Edition, 2013, Third Edition, 2018, CRC Press, Boca Raton, FL, available at Amazon.com or at this link

### Book Chapters

"Fires, Arsons and Explosions," Chapter 37 in *Modern Scientific Evidence: The Law and Science of Expert Testimony*, edited by Faigman, Kaye, Saks and Sanders, (2023 Editor: Erin Murphy) Thompson West Publishing Co., Eagan, MN, (Previous editions: 1997, 2001, 2007, 2011, 2014)

*Encyclopedia of Forensic Sciences, 3rd Edition* "Fire Scene Inspection Methodology and Collection of Evidence" edited by Max Houck, Academic Press (Elsevier), London, 2023. Available at this link

"Confronting Inaccuracy in Fire Cause Determinations," Chapter 3 in *Forensic Science Reform*, edited by Wendy Koen and C. Michael Bowers, Elsevier, 2017.

*Encyclopedia of Forensic Sciences, 2nd Edition* contributor of three entries ("Evidence Collection at Fire Scenes;" "Fire Scene Inspection Methodology;" "Fire Patterns and Their Interpretation") edited by Jay Siegel, Pekka Saukko and Max Houck, Academic Press (Elsevier), London, 2013.

"Fire Scene Investigation and Laboratory Analysis of Fire Debris," Chapter 3.5 in *Forensic Science, Current Issues, Future Directions,* edited by Douglas Ubelaker, John Wiley & Sons, Hoboken, NJ, 2013.

"Analysis of Fire Debris," Chapter 3 in *Forensic Chemistry Handbook*, edited by Lawrence Kobilinsky John Wiley & Sons, Hoboken, NJ, 2012.

"Basic Fire Science," Chapter 3, "Fire Patterns," Chapter 4, "Fire Cause Determination," Chapter 16 in *Fire Investigator Principles and Practice to NFPA 921 and 1033*, *3rd Edition*. IAFC, IAAI, NFPA and Jones and Bartlett, publishers, 2011. (Chapters 3 and 4 co-authored with Jeff Spaulding Chapter 16 co-authored with Joe Sesniak.)

*Wiley Encyclopedia of Forensic Science,* contributor of five entries ("Arson Investigation: Misconceptions and Mythology;" "Fire: Chemistry of;" "Fire: Dynamics and Pattern Production;" "Fire: Scene Investigation;" "Fire Debris: Laboratory Analysis of") and section editor for Fire and Explosives entries, edited by Allan Jamieson and Andre Moenssens, Wiley & Sons, West Sussex, UK, 2009.

"Forensic Arson Investigation," McGraw-Hill *Yearbook of Science and Technology*, 2003.

### Standards

*NFPA 1033, Standard for Professional Qualifications for Fire Investigator*, NFPA, Quincy, MA, Contributor to the 2022 edition as principal committee member.

*Strengthening Fire and Explosion Investigation in the United States: A Strategic Vision for Moving Forward,* OSAC Technical Guidance Document 0005, Co-author as member of the OSAC Fire and Explosions Subcommittee, April 2021. Available at this link

*NFPA 921, Guide for Fire and Explosion Investigations*, NFPA, Quincy, MA, Contributor to the 1998 through 2017 editions as principal committee member.

*Fire and Arson Scene Evidence: A Guide for Public Safety Personnel*, National Institute of Justice Office of Justice Programs, USDOJ Publication Number NCJ 181584, Contributor to the document as a member of the Editorial Board. Available at this link

*Standard Practice for Investigating Carbon Monoxide Poisoning Incidents*, ASTM E2292-03, Principal Author as Task Group Coordinator.

*Standard Test Method for Flammable or Combustible Liquid Residues in Extracts from Samples of Fire Debris by Gas Chromatography*, ASTM E1387-90. Principal Author as Task Group Coordinator.

*Guidelines for Laboratories Performing Chemical and Instrumental Analysis of Fire Debris Samples*, Principal author as Co-Chair of IAAI Forensic Science Committee, June 1988.

**Peer Reviewed Publications**

*(Most of these publications are available in digital format at www.firescientist.com)*

"A Model for Confronting Fire Investigation Errors," *Lincoln Memorial University Law Review*, Volume 7, Issue 2, Fall 2020. Available at this link

"Fire Investigation: Historical Perspective and Recent Developments," *Forensic Science Review,* Vol. 31, No. 1, 37-44, January 2019.

"Forensic Science Assessments: A Quality and Gap Analysis, Fire Investigation," (Co-authored with Jose Almirall, Hal Arkes, Frederick Mowrer and Janus Pawliszyn) AAAS, Washington DC, 2017. Available at this link

"Pernicious, Pervasive, and Persistent Literature in Fire Investigation," *Forensic Science Research Evaluation*, edited by Bartick & Floyd, AAAS and George Washington University, 2016. Available at this link

"Ignitable Liquid Residue Source Elimination by Molecular Weight Estimation," *Proceedings of the American Academy of Forensic Sciences*, AAFS, Colorado Springs, CO, 2012.

"Totality of the Evidence or Contextual Bias: Where Do You Draw the Line?" *Proceedings of the 5th Int'l Symposium on Fire Investigations Science and Technology* (ISFI), NAFI, Sarasota, FL, 2012.

"'Progress' in Fire Investigation: Moving from Witchcraft and Folklore to the Misuse of Models and the Abuse of Science," *Proceedings of the 4th International Symposium on Fire Investigations Science and Technology* (ISFI), NAFI, Sarasota, FL, 2010.

"Forensic Science Standards: Where They Come from and How They Are Used," *Forensic Science Policy and Management: An International Journal*, Vol. 1, No. 1, February 2009.

"Toward a More Scientific Determination: Minimizing Expectation Bias in Fire Investigations," *Proceedings of the 3rd International Symposium on Fire Investigations Science and Technology* (ISFI), NAFI, Sarasota, FL, 2008.

"The Mythology of Arson Investigation," *Proceedings of the 2nd International Symposium on Fire Investigations Science and Technology* (ISFI), NAFI, Sarasota, FL, 2006.

"ASTM Standards for Fire Debris Analysis: A Review," (co-authored with Eric Stauffer), *Forensic Science International*, 132, 63–67, 2003.

"Contamination of Brake Fluid by Power Steering Fluid," (co-authored with Eric Stauffer), *J. Forensic Sciences*, Vol. 48, No. 4, July 2003.

"Persistence of Floor Coating Solvents," *J. Forensic Sciences*, Vol. 46, No. 6, November 2001.

"The Petroleum-Laced Background," (co-authored with Julia Dolan and Cheryl Cherry), *J. Forensic Sciences*, Vol. 45, No. 5, September 2000.

"Differentiation of Asphalt and Smoke Condensates from Liquid Petroleum Distillates Using GC/MS," *J. Forensic Sciences*, Vol. 43, No. 1, January 1998.

"Comparison of the Eluting Efficiency of Carbon Disulfide with Diethyl Ether: The Case for Laboratory Safety," (co-authored with Dr. Andrew T. Armstrong), *J. Forensic Sciences*, Vol. 42, No. 2, March 1997.

"An Improved Method of Obtaining Ion Profiles from Ignitable Liquid Residue Samples," *FBI International Symposium on the Forensic Aspects of Arson Investigations*, Fairfax, VA, August 1, 1995.

"ASTM Standards for Forensic Sciences," *J. Forensic Sciences*, Vol. 40, No. 1, January 1995.

"Behavior of Glass at Elevated Temperature," *J. Forensic Sciences*, Vol. 37, No. 5, September 1992.

"Baseline Characteristics of Residential Structures Which Have Burned to Completion: The Oakland Experience," (co-authored with David M. Smith, C.F.I. and Dr. Richard W. Henderson, C.F.I.), *Fire Technology*, Vol. 28, No. 3, August 1992.

**Editorial-Reviewed Publications**

"Sifting the Ashes," 27 issues of a professional newsletter, 2018-23 available at www.firescientist.com

"A Model for Challenging Fire Cause Determinations," *The Champion*, National Association of Criminal Defense Lawyers, November 2022.

"What Fire Litigators Need to Know in 2017," *The SciTech Lawyer*, Vol. 13, No 4 ABA, 2017.

"Contextual Bias in Fire Investigations: Scientific vs. Investigative Data." *The Brief*, American Bar Association, Tort Trial and Insurance Practice Section, Vol. 44, No. 3, Spring 2015.

**Editorial-Reviewed Publications (continued)**

"The Evolution of Fire Investigation and Its Impact on Arson Cases," *Criminal Justice*, American Bar Association, Criminal Justice Section, Vol. 27, No. 1, Spring 2012.
"Arson probes: Instinct Giving Way to Modern Science," *Journal of Insurance Fraud in America,* Vol. 2, No. 1, Coalition Against Insurance Fraud, Washington, DC, 2011.
"The Standard of Care in Fire Investigation," *Canadian Association of Fire Investigators Journal*, Spring 2007.
"Report on the Peer Review of the Expert Testimony in the Cases of *State of Texas vs. Cameron Todd Willingham* and *State of Texas vs. Ernest Ray Willis,*" (Co-authored with Douglas J. Carpenter, Daniel L. Churchward, David M. Smith, and Michael A. McKenzie), 2006. Available at this link
"What You Don't Know Can Hurt You: How Do You Know Your Lab Has It Right?" *The Fire and Arson Investigator,* Vol. 53, No. 3, April 2003.
"A Calculated Arson," *The Fire and Arson Investigator*, Vol. 49, No. 3, April 1999.
"Unconventional Wisdom: The Lessons of Oakland," *The Fire and Arson Investigator*, Vol. 43, No. 4, June 1993.
"The Lime Street Fire: Another Perspective," *The Fire and Arson Investigator*, Vol. 43, No. 1, Sept. 1992.
"Melted Steel: How Important?" (co-authored with J. Finis McCarver, P.E.), *The National Fire and Arson Report*, Vol. 10, No. 4, August 1992.
"The Behavior of Flammable and Combustible Liquids," (co-authored with Laurel V. Waters), *The Fire and Arson Investigator*, Vol. 42, No. 1, September 1991.
"Appliance Fires: Determining Responsibility," (co-authored with R.I. Underwood, P.E.), The *National Fire and Arson Report*, Vol. 7, No. 2, April 1989.
"Incidental Accelerants," *The National Fire and Arson Report*, Vol. 2, No. 3, October, 1983.
"Isolation of Accelerant-like Residues from Roof Shingles Using Headspace Concentration," *Arson Analysis Newsletter,* Systems Engineering Associates, Vol. 6, No. 3., May, 1982

**Advisory Panels**

Member, U. S. Dept. of Justice, NIJ Technical Working Group on Fire Investigations, 1997-2000.
Member, AAFS President's Panel on Scientific Integrity, 2009.
Member, Technical Advisory Group for the Houston Forensic Science Center, 2015-present.
Member, Texas State Fire Marshal's Science Advisory Workgroup, 2016-present.
Member, Underwriters Laboratories Fire Safety Research Institute (FSRI) Technical Panel on Fire Forensics, 2016-2019.
Member, Forensic Fire Analysis Institute Advisory Board, 2018-present.

**Awards**

AAFS Criminalistics Section Paul L. Kirk Award, 2024.
Winner, Best Forensic Science Books of All Time, Book Authority, 2020.
Journal of Forensic Sciences, Award of Merit, 2018.
Saferstein Memorial Distinguished Lecturer at Northeastern University, 2017.
Society of Fire Protection Engineers, "Person of the Year" Award, 2015.
Levy Scholars and Rodin-Silverman Scholars Lecturer, U Penn Law School, 2015.
American Academy of Forensic Sciences, Criminalistics Section Special Meritorious Service Award, 2008.
ASTM Award of Merit, 2001.
ASTM E30 Forensic Sciences Award, 1996.

**Selected Presentations 2015-2024**

"Scientific Protocols for Fire Investigation," *Flower Mound Fire Department,* October 8-10, 2024 Flower Mound, TX.
"Scientific Protocols for Fire Investigation," *Texas State Fire Marshal's Office,* July 16-18, 2024 Austin, TX.
"State v. Claude Garrett and the Application of the Scientific Method," *75th Annual Training Course*, *International Association of Arson Investigators*, April 9, 2024, Las Vegas, NV
"Scientific Protocols for Fire Investigation," *UK Association of Fire Investigators,* January 31-February 2, 2024, Hensol Park, Wales.
"Cases Where Science Saved the Day," *UK Association of Fire Investigators,* January 29, 2024, Hensol Park, Wales.
"Scientific Protocols for Fire Investigation," *South Bay Arson Task Force,* January 9-11, 2023, Torrance, CA.
"The Work of OSAC," "The Importance of Ventilation," and "Sources of Error in Fire Investigations," *First Annual Training Conference, Chile Chapter IAAI*, November 17, 2022, Concepcion, Chile.
"Fire Investigation: Science or Art?" Holy Angel University, Philippine College of Criminology, September 9, 20223, Central Luzon, Philippines *(via Zoom).*
"Scientific Protocols for Fire Investigation," *North Dakota Chapter IAAI,* Sept 12-14,2022 Bismarck, ND.
"Fire Investigation 1973-2022," *Seminario Nacional de Paricia em Incendios*, Brazilian Chapter IAAI, March 23, 2022, Victoria, Espiritu Santo, Brazil *(via Zoom).*
"The Importance of Ventilation," New Zealand Chapter IAAI, October 30, 2021 *(via Zoom.)*
"Strengthening Fire and Explosion Investigation in the United States: A Strategic Vision for Moving Forward," *New South Wales Association of Fire Investigators*, November 17, 2021 *(via Zoom).*
"Putting More Science in Your Scientific Investigations," *Fire Investigators of Florida Annual Training Conference*, November 9, 2021, Brandon, FL.
"Examining Wrongful Convictions: Failing to Catch Errors Until It's Too Late," *Northeast Association of Forensic Scientists Annual Seminar*, November 4, 2021, Newport, RI.
"The Importance of Ventilation," *New Zealand Association of Fire Investigators Annual General Meeting and Training*, October 30, 2021 *(via Zoom).*
"Scientific Protocols for Fire Investigation," *Concord Fire Department*, June 15-17, 2021, Concord, NC.
"Fire Investigation: Science or Art?" New Jersey Institute of Technology, June 10, 2020 *(via Zoom.)*
"Vetting Your Expert (and Challenging Theirs)," Lincoln Memorial University, *Symposium on Modern Forensic Science, Expert Testimony, and Exonerations as Applied to Fire Investigation,* February 27, 2020, Knoxville, TN.
"The Fire Investigation Profession's Response to the 2009 NAS Report," *AAFS 72nd Annual Meeting*, *Interdisciplinary Symposium,* February 18, 2020 Anaheim, CA.
"Expert Challenges Using Industry Standards," *AAFS 71st Annual Meeting*, *Jurisprudence Section,* February 22, 2019, Baltimore, MD.
"Yes, Everybody Knows a Fire Needs Oxygen, But Why Should We Care?" *AAFS 71st Annual Meeting*, *Criminalistics/Engineering Section,* February 21, 2019, Baltimore, MD.
"Fire Investigation: Science or Art?" *Florida International University Forensic Science Seminar Series*, November 28, 2018, Miami, FL.
"How Your Report and Testimony Will Be Used by Your Adversary," Advanced Origin and Cause/Courtroom Testimony (AOCCT), *ATF National Center for Explosives Training and Research*, August 7, 2018, Huntsville, AL.
"Surviving NFPA 921 and 1033 Challenges," *Ontario Chapter of the International Association of Arson Investigators*, May 16, 2018, Hamilton, ON.
"The Evolution of Fire Investigation," *AAFS 70th Annual Meeting*, Workshop #19 February 20, 2018, Seattle, WA.
"Changes in the 2017 Edition of NFPA 921," *Texas Fire Marshal's Forum*, February 6, 2018, Corpus Christi, TX.

**Selected Presentations (continued)**

"Surviving NFPA 921 and 1033 Challenges," *Joint meeting of the North and South Carolina Chapters of the International Association of Arson Investigators*, October 19, 2017, Myrtle Beach, SC.
"How a Science Advisory Workgroup Can Help Fire Investigation Organizations Avoid Preventable Errors," National Institute of Justice's *Sentinel Events Initiative All-Stakeholder Symposium*, U.S. DOJ, June 20, 2017, Washington, DC.
"Confronting Inaccuracies in Fire Investigations: Case Studies," and "The Difficulty and Questionable Validity of Fire Origin Determination," *18th Annual Francine and Michael Saferstein Lectures*, Northeastern University College of Science, March 30 and 31, 2017, Boston, MA.
"You Only Live Once: Perspectives on 43 Years in Forensic Science," *AAFS Special Presentation*, February 14, 2017, New Orleans, LA.
"Scientific Protocols for Fire Investigation," *Canadian National Advanced Fire, Arson and Explosion Training Conference*, October 24-27, 2016 Markham, ON.
"NFPA 921 Review," *50th Annual Professional Fire and Fraud Investigators Professional Development Symposium*, October 3, 2016, St. Louis, MO.
"The State of Modern Arson Investigation: From Scene to Laboratory," Fordham University Law School, *7th Annual Prescriptions for Criminal Justice Forensics Conference*, June 5, 2016, NY.
"Forensic Technologies in Flux," *U Penn Law School Symposium on Technology in Criminal Justice Reform*, May 13, 2016, Philadelphia, PA.
"Surviving an NFPA 1033 Challenge," *67th Annual Training Course*, *International Association of Arson Investigators*, May 18, 2016, Orlando, FL.
"Expert Challenges and the Revised NFPA 1033," *National Association of Subrogation Professionals*, November 10, 2015, Reno, NV.
"NFPA 1033," "Fire and Science," and "Anatomy of a Train Wreck," *Canadian National Advanced Fire Arson and Explosion Investigation Training*, October 26-30, 2015, Markham, ON.
"How Fire Investigation Organizations Get in Trouble with Preventable Errors," *NIST International Symposium on Forensic Science Error Management*, Washington, DC, July 22, 2015.
"Pernicious, Pervasive, and Persistent Literature in Fire Investigation," *National Science Foundation Workshop on Forensic Science Research Evaluation*, May 26, 2015, Washington, DC.
"The Questionable Validity of Fire Origin Determination," *New Topics* series, March 19, 2015, New College, Sarasota, FL.
"The Long Road to Exoneration for Han Tak Lee," *AAFS 67th Annual Meeting, Jurisprudence Section*, February 19, 2015, Orlando, FL.
"Cases Where Shifted Science as 'New Evidence' Played a Role," American Academy of Forensic Sciences (AAFS), Workshop #8, *From Fire Dynamics to Legal Dynamics: Shifted Science and the Criminal Justice System's Response*, February 16, 2015, Orlando, FL.
"New Evidence Challenges to BS (Bad Science) in Arson Cases," *U Penn Law School, Levy/Silverman-Rodin Scholars Luncheon*, February 4, 2015, Philadelphia, PA.

**Selected Media Appearances**

"Wrongly Accused: The Annette Hewins Story," Part 6, April 10, 2024, BBC Apple Podcast, Available at this link
"CSI on Trial: Arson Investigation," Curiosity Stream, Available at this link
"Forensic Fire Analysis," 3D Forensics podcast with Eugene Liscio, August 4, 2022, Available at this link
"Forensic Science Essentials: Challenges in Fire Analysis and Document Examination," National Clearinghouse for Science, Technology and the Law, Stetson University College of Law, June 28, 2017, Available at this link
"The State of Modern Fire Investigation," ABA Criminal Justice Section, June 13, 2016, Available at this link
"Incendiary, The Willingham Case," a 2011 documentary produced by Steve Mims and Joe Bailey, Jr. Available from iTunes.

"Death by Fire," a *Frontline* documentary about the Willingham case. First aired October 19, 2010. Sequel aired October 7, 2014. Produced by Jessie Deeter. Available at this link

"Burned," an *ABC News 20/20* episode about several wrongful arson prosecutions. Produced by Tom Berman. Season 30, Episode 18. First aired May 7, 2010. DVD copy available upon request.

"When Forensics Fail," a *National Geographic* documentary about the case of Texas vs. Ernest Willis. First aired October 18, 2007. DVD copy available upon request.

"Up in Smoke," *The Forensic Files*, episode about the case of Pennsylvania vs. Paul Camiolo. First aired June 29, 2005. Still in syndication, DVD copy available upon request.

"Trial by Fire," *The Forensic Files*, episode about the case of Georgia vs. Beverly Jean Long. First aired April 27, 2005. Still in syndication, DVD copy available upon request.

Other media appearances and training videos are available at www.firescientist.com under "Public Appearances."