

CURRICULUM VITAE
JOSHUA S. BASTIAN,
PE, CFEI

Joshua Bastian is a registered professional engineer in California specializing in mechanical engineering and failure analysis of residential and consumer appliances.

Professional Experience

- Provided failure analysis for hundreds commercial and residential property loss claims involving fire and water damage. Conducted on-scene and laboratory examination and analyses for these cases.
- Conducted engineering and testing for cases involving gas and electric stoves, furnaces, electrical outlets, outdoor and indoor lights, electric appliances, pellet stoves, pool pumps, microwaves, portable heaters, dishwashers, e-cigarettes, hobby vehicles, portable tool batteries, HVAC systems, exhaust fans, grow lights, and hoverboards.
- Performed material flame performance testing (UL 94 equivalent) on a residential space heater, a residential dishwasher, and other plastic samples.
- Collaborated on investigations with certified fire investigators, fire scientists, and professional engineers.
- Over 300 solo origin and cause fire investigations.

Education

- **Mechanical Engineering, Bachelor of Science**, University of California, Berkeley 2003
- **Film and Digital Media, Bachelor of Arts**, University of California, Santa Cruz 2001

Professional Certifications & Licenses

- **PE Certification California, License #M40120** 2020
Board for Professional Engineers, Land Surveyors and Geologists
- **PE Examination** 2019
Passed Professional Engineering Exam for Mechanical Engineers
- **Certified Fire & Explosion Investigator** 2016
National Association of Fire Investigators
- **Registered Engineer in Training** 2015
Board for Professional Engineers, Land Surveyors and Geologists

FIRE INVESTIGATION · FORENSICS · FIRE SCIENCE & ENGINEERING

ANSWERS FROM ASHES™

Serving Clients Nationwide

Offices: California - Arizona - Hawaii - Idaho - Minnesota - Montana
Nevada - North Dakota - Oregon - South Dakota - Washington

Corporate Office
935 Pardee St
Berkeley, CA 94710
800.726.5939
www.fcfire.com

Professional Associations

- IAAI (International Association of Arson Investigators) – Member 2020 – Present
- ASME (American Society of Mechanical Engineers) – Member 2016 – Present
- National Association of Fire Investigators – Member 2016 – Present

Professional Development

[H = Hours; T = Tested; TH = Tested Hours]

- Safety Unlimited, Inc.: Online Training 2024
Asbestos Awareness
- Safety Unlimited, Inc.: Online Training 2024
Lead Awareness for General Industry
- Fire Cause Analysis: Webinar; John White 2024 2.00 TH
Third Quarter Fire Investigator's Meeting
- Fire Cause Analysis: Webinar; John White and Sally Noma 2024 2.00 TH
Spoliation and the Claims Adjuster
- Fire Cause Analysis: Webinar; Geoff Hazard 2024 3.00 TH
Second Quarter Fire Investigator's Meeting
- Fire Cause Analysis: Webinar 2024 2.00 TH
Fire Pattern Analysis and the Claims Adjuster
- ATF Training in L.A. 2024 16.00 TH
Origin Matrix; Smoking Materials as Ignition sources
- Fire Cause Analysis Investigator Meeting: Presenter 2023
Engineering Case Studies: Illustration of the work group and the tools we use
- FSRI Lithium-Ion Battery Symposium: 2023 6.00 H
Streaming Video Challenges for the Fire Service
- Mercury Learning Exchange Course: Co-Presenter 2023 2.00 TH
Fire Investigations and Analysis of an Evolving Solar Panel Industry
- NASP: Webinar NFPA 921 - The Impact of This Guide on Your Fire Claim 2022
NFPA 921- The Impact of This Guide on Your Fire Claim
- Safety Unlimited, Inc.: Online Training 2022
Asbestos Awareness
- Safety Unlimited, Inc.: Online Training 2022
Lead Awareness for General Industry
- California Conference of Arson Investigators: Webinar 2022 4.00 H
Fire Science & Fire Dynamics
- Safety Unlimited, Inc.: Online Training 2021
Asbestos Awareness
- Safety Unlimited, Inc.: Online Training Lead Awareness for General Industry 2021
Lead Awareness for General Industry
- Fire Cause Analysis Training for Mercury Insurance: Presenter 2021 2.00 TH
Hot Topics in Product Fires: Hoverboards, E-Cigs, Smart Meters, Drones and more!
- Cozen O'Connor: Webinar 2021
The Dog Did It: Inadvertent Stove Activation
- Cozen O'Connor: Webinar 2021
Cracking of Plumbing Components & Subrogation
- Cozen O'Connor: Webinar 2021

Forensic Analysis of Fire Caused by Improper Fireplace Installation		
• Cozen O'Connor: Webinar	2021	
Rechargeable Subrogation		
• Fire Cause Analysis: Webinar; John White Evidence and Engineering	2021	2.75 H
Evidence and Engineering		
• Fire Cause Analysis: Webinar; Ulises Castellon	2021	2.00 H
Fire & Explosion Investigations That Sizzle		
• Cozen O'Connor: Webinar	2020	
Product(ive) Subro Claims		
• Fire Cause Analysis Investigator Meeting: <u>Co-Presenter</u>	2020	
Beyond the Scene: Evidence Collection and Moving the Case Forward for		
Subro and Liability Claims		
• Arson Investigators Subrogation Webinar Series	2020	
The New Impact: NFPA 921, 2021 Ed. and NFPA 1033 2022 Ed.		
• Fire Cause Analysis Promoted to Mechanical Engineer	2020	
Promoted to Mechanical Engineer		
• Fire Cause Analysis Investigator Meeting: <u>Co-Presenter</u>	2019	2.00 TH
Evidence Collection, Documentation, and Dryer Fires		
• Cal-OSHA FIT (Terracon)	2018	T
Respirator FIT		
• Cal-OSHA CCR (Terracon)	2018	
Lead Awareness		1.00 H
Asbestos Awareness		2.00 H
• Great Lakes Analytical: Webinar	2017	
Evidence Collection and Laboratory Testing		
• Cozen O'Connor: Webinar	2017	
Fireplace and Chimney Subrogation: Common Claims and Recovery		
• Cal-OSHA CCR (Argus Pacific)	2017	
Lead Awareness		1.00 H
Asbestos Awareness		2.00 H
• Fire Cause Analysis: Hal Lyson, CFI NFPA 921 2017 Ed. Updates	2017	1.00 TH
NFPA 921 2017 Ed. Updates		
• Cozen O'Connor: Webinar	2017	
Ventilation Fan Fires: Was the Ignition Inside or Outside the Fan?		
• Berkeley City Commons Club: <u>Co-Presenter</u>	2017	
Introduction to Fire Investigation		
• Fire K9.org: David Brien, EFI Global and John Dehaan Arson Investigation	2016	4.00 TH
Update		
Arson Investigation Update		
• IAAI North Dakota Chapter: <u>Co-Presenter</u>	2016	T
Fire Modeling: Tools for Fire Investigation and Testing the Hypotheses		
• Cozen O'Connor: Webinar	2016	
Lithium Battery Losses and Subrogation Issues		
• San Diego Fire-Rescue Dept – Metro Arson Strike Team	2016	
Ignition, Self-heating, and Spontaneous Combustion		
• Fire Cause Analysis Promoted to Engineer Associate	2016	
Promoted to Engineer Associate		
• Cal-OSHA CCR (RGA Environmental)	2015	

Lead Awareness		1.00 H
Asbestos Awareness		2.00 H
• Sacramento-Sierra Regional Arson Task Force Forensic Photography	2015	
• Fire Cause Analysis Quarterly Investigator Meeting 1033 JPR's 1033 JPR's: Sword or Shield? and A Simple Kitchen Fire (Or Not)?	2015	
• Cozen O'Connor: Webinar Expert Challenges and the Revised NFPA 1033 Expert Challenges and the Revised NFPA 1033	2014	
• US Dept. of Justice - Bureau of Alcohol, Tobacco, Firearms, and Explosions Advanced Electrical Fire Investigation	2014	
• Cal-OSHA CCR (RGA Environmental)	2014	
Lead Awareness		1.00 H
Asbestos Awareness		2.00 H
Hazard Comm from Fire Scene Toxins		1.00 H
• California Conference of Arson Investigators Bay Area Round Table Course Crime Scene Investigation at Fire Scenes	2014	
• California Conference of Arson Investigators Bay Area Round Table Course Getting the Most Out of Your Fire Scene	2014	
• California Conference of Arson Investigators Bay Area Round Table Course Getting the Most Out of Your Fire Scene	2013	
• Fire Cause Analysis Investigators Class Wildland Fire Pattern Recognition Workshop	2013	
• Fire Cause Analysis Hired as Research Associate	2013	

Depositions

• Yevgeniy Dukhovny, Leonid Samoylovich aka Joseph Dukhovny, and Faina Karasina vs. Essex Property Trust, Megan Carr, Alex Dowin, Alexsander Downin, Chefman, Inc., GE Appliance, Inc. Case No. 22CV409212	April 11, 2024
• Herrera vs. B&S Plastics dba Waterway Plastics, et. al Case No. STK-CV-UPL-20200004342	March 7, 2024
• Delta Saloon, Inc., vs. Amerigas Propane, Inc. Case No. 3:19-cv-00748-RCJ-CSD;	Aug 9, 2023