



## **CURRICULUM VITAE PATRICK BUCKLEY**

### **AREA OF SPECIALIZATION**

IAAI Certified Fire Investigator with Motor Vehicle Fire Credential Endorsement  
CCAI Certified Fire Investigator  
NAFI Certified Fire & Explosion Investigator

### **BACKGROUND AND PROFESSIONAL EXPERIENCE**

Patrick Buckley is a Certified Fire Investigator through the International Association of Arson Investigators (IAAI) and the California Conference of Arson Investigators (CCAI). He is also a Certified Fire and Explosion Investigator through the National Association of Fire Investigators (NAFI). Currently, he is a Fire Captain with the San Diego Fire-Rescue Department and is permanently assigned to the Metro Arson Strike Team as a Fire Investigator. Concurrent to working for the San Diego Fire-Rescue Department, Patrick works as a Fire Investigator for Fire Cause Analysis. Previous to his ten years with the San Diego Fire-Rescue Department Patrick worked as a Fire Fighter I for CAL-FIRE and a Paid Call Firefighter for the San Luis Obispo County Fire Department. Patrick coordinates training for Southern California fire investigators and continues to increase his knowledge of fire investigation by attending fire and explosives investigation training throughout the country.

### **PROFESSIONAL EXPERIENCE**

2014 to Present	<b>SAN DIEGO FIRE-RESCUE DEPARTMENT</b> Metro Arson Strike Team San Diego, CA Fire Captain/Investigator
2006 to Present	<b>SAN DIEGO FIRE-RESCUE DEPARTMENT</b> San Diego, CA Firefighter, Fire Engineer, & Fire Captain
2012 to Present	<b>FIRE CAUSE ANALYSIS</b> Berkeley, CA Fire Investigator

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2011 to 2012      FIRE CAUSE ANALYSIS  
                          Berkeley, CA  
                          Fire Investigation Scene Assistant

2004                CALIFORNIA DEPT. OF FORESTRY AND FIRE PROTECTION  
                          San Diego, CA  
                          Firefighter I

2003 to 2005      SAN LUIS OBISPO COUNTY FIRE DEPARTMENT  
                          San Luis Obispo, CA  
                          Paid Call Firefighter

**EDUCATION**

2015 – 2016      Eastern Kentucky University, Richmond, KY  
                          Fire, Arson and Explosion Investigation – 9 units

2010 – 2012      Miramar College, San Diego, CA  
                          Administration of Justice – 21 units

2009 – 2010      Miramar College, San Diego, CA  
                          Fire Protection Technology – 20 units

2002 – 2005      California Polytechnic State University, San Luis Obispo, CA  
                          Construction Management – 107 units

**PROFESSIONAL CERTIFICATIONS**

Certified Fire Investigator with Motor Vehicle Fire Credential Endorsement (IAAI-CFI(V)), IAAI #22-051392, 2016  
 Certified Fire Investigator (CFI), CCAI #588, 2012  
 Certified Fire and Explosion Investigator (CFEI), NAFI #17391-9532, 2012  
 Certified Evidence Collection Technician (IAAI-ECT), IAAI #266, 2015  
 Certified Fire Fighter I, CSFM #1991432, 2006  
 Certified Fire Fighter II, CSFM #2085385, 2007

**INVESTIGATIVE EXPERIENCE**

	<b>Accidental</b>	<b>Incendiary</b>	<b>Natural</b>	<b>Undetermined</b>
Structure Fires	96	66	0	70
Vehicle Fires	30	27	0	20
Marine Fires	1	0	0	0
Vegetation Fires	1	11	0	14
Rubbish Fires	5	42	0	22
Fatal Fires	3	1	0	5

Patrick Buckley has investigated approximately 414 fires, of which he authored the origin and cause report on 372 of those. He has assisted in approximately 175 fire investigations has been involved in suppression activity of approximately 170 fires.

## **TEST BURNS AND EXPLOSIONS**

### **2017**

Recreated fire scene involving extension cord and RPT with 1600-watt load. Burned extension cord using radiant heater.

### **2016**

Advanced Origin and Cause/Courtroom Testimony – observed 2 compartment fires, 10 appliance fires, 2 gasoline pool fires, 1 polyurethane foam fire, and 1 fuel-air explosion

Camp Pendleton Fire School – lit and observed over 12 vegetation fires

Fire Physics for Wildland Fire Investigators – lit 4 fires involving a collection of vegetation and denatured alcohol to simulate rates of spread on incline and fire whirls

### **2015**

A Fresh Look at Fire Dynamics – lit one compartment fire, one milk jug incendiary device, and rolls of gauze on plywood to simulate holes burned in flooring

### **2014**

SLO FIST Vehicle Fire Investigation – observed the test burning of a motor home

Electrical Aspects of Fire Investigation – observed the burning of energized and non-energized conductors

Wildland Fire Investigation FI-210 – observed two vegetation test burns

Arson Statutes – lit 4 rubbish fires comprising of t-shirts, cardboard, and vegetation

Explosive Hazard Recognition & Safety Training – observed 4 explosions and initiated 1 explosion of military explosives

### **2013**

Fire/Arson Origin and Cause Investigations (R206) – observed fires involving polyurethane foam, a compartment fire, and a vehicle fire

California Conference of Arson Investigators Conference – two live burns of compartment fires

### **2012**

Incident Response to Terrorist Bombings – observed 6 explosions of commercial and military explosives

### **2011**

Vehicle Fire Investigation – observed two vehicle fires

## **SPECIALIZED TRAINING**

### **2017**

Large Scale Fire Scene and LODD Investigations – SDFD MAST/ATF (4 hours)

*NFPA 1033 1.3.7(8)-(11)(15)*

Fundamentals of Vehicle Fire Investigation – Society of Automotive Engineers (20 hours)

*NFPA 1033 1.3.7(8)-(11)(13)(15)*

## **2016**

Advanced Origin and Cause/Courtroom Testimony – ATF (86 hours)

*NFPA 1033 1.3.7(1)-(16)*

Vehicle System Forensics – Berla Corporation [iVe] (32 hours)

Fire Physics for Wildland Fire Investigators – SDFD MAST/USFS (6 hours)

*NFPA 1033 1.3.7(1)-(5),(7)-(9)*

Ignition, Self-Heating, and Spontaneous Combustion: A short course on ignition – SDFD MAST/Vyto Babrauskas (4 hours)

*NFPA 1033 1.3.7(1)-(5),(8)-(12)*

Profiling the Arson Scene – SDFD MAST/Det. Ed Nordskog LASD (4 hours)

*NFPA 1033 1.3.7 (8)(10)(15)*

CFI Trainer Fire Investigation Modules – IAAI (194 hours)

*NFPA 1033 1.3.7(1)-(16)*

## **2015**

Post Blast Investigative Techniques – ATF (40 hours)

*NFPA 1033 1.3.7(6),(15),(16)*

Evidence Collection – CCAI (8 hours)

*NFPA 1033 1.3.7(2),(14),(15)*

A Fresh Look at Fire Dynamics – SDFD MAST/ATF (7 hours)

*NFPA 1033 1.3.7(1)-(5),(8)*

Use of Burglar Alarms in Investigations – SDFD MAST (8 hours)

*NFPA 1033 1.3.7(16)*

Butane Hash Oil Labs – Drug Enforcement Administration (DEA) (8 hours)

*NFPA 1033 1.3.7(6),(10),(12),(15)*

NFPA 921/Solid-Fuel and Gas-Burning Appliances – CCAI (8 hours)

*NFPA 1033 1.3.7(1)-(5),(8)-(11),(13)*

Reading Wildland Fire Indicators – CCAI (4 hours)

*NFPA 1033 1.3.7(8),(10)*

Hazardous Materials Course FRO – SDFD (annually refreshed)

*NFPA 1033 1.3.7(12)*

## **2014**

Forensic Vehicle Fire Investigation – SLOFIST (32 hours)

*NFPA 1033 1.3.7(1)-(5),(8)-(11),(13),(15)*

Electrical Aspects of Fire Investigations – National Fire Academy (48 hours)

*NFPA 1033 1.3.7(8)-(11),(13),(16)*

Photography for Fire Investigators – CCAI (8 hours)

*NFPA 1033 1.3.7(15)*

Wildland Fire Investigation FI-210 – NWCG (40 hours)

*NFPA 1033 1.3.7(1)-(5),(8)-(11),(15)*

Arson Statutes – CCAI (4 hours)

*NFPA 1033 1.3.7(8)*

Explosive Hazard Recognition & Safety Training – DHS (8 hours)

*NFPA 1033 1.3.7(6)*

**2013**

Fire/Arson Origin and Cause Investigations (R206) – National Fire Academy/ATF (96 hours)  
*NFPA 1033 1.3.7(1)-(11),(13),(15),(16)*

**2012**

Incident Response to Terrorist Bombings – New Mexico Tech EMRTC (32 hours)  
*NFPA 1033 1.3.7(6)*

Juvenile Fire Setters FATJAM Training – San Diego Burn Institute (4 hours)  
*NFPA 1033 1.3.7(8)*

**2011**

Arson Murders and Fire Death Investigations – LA HIDTA (8 hours)  
*NFPA 1033 1.3.7(8)*

Vehicle Fire Investigation – CCAI (7 hours)  
*NFPA 1033 1.3.7(8)-(11),(13),(15)*

Vehicle Fire Investigation – CCAI (4 hours)  
*NFPA 1033 1.3.7(8)-(11),(13),(15)*

Expert Courtroom Testimony Program – IAAI (40 hours)

Fire Prevention 1A: Introduction to the California Fire Code – CSFM (40 hours)  
*NFPA 1033 1.3.7(14)*

**2010**

Fire Investigation 1B: Techniques of Fire Investigation – CSFM (40 hours)  
*NFPA 1033 1.3.7(8)-(11)*

Fire Investigation 2A: Criminal and Legal Procedures – CSFM (40 hours)  
*NFPA 1033 1.3.7(8)*

Fire Investigation 2B: Field Case Studies – CSFM (40 hours)  
*NFPA 1033 1.3.7(8),(10),(11)*

Investigations of Electrical and Appliance Related Fires - IAAI/AHAM (20 hours)  
*NFPA 1033 1.3.7(8),(13),(16)*

**2009**

Fire Investigation 1A: Fire Origin and Cause Determination – CSFM (40 hours)  
*NFPA 1033 1.3.7(1)-(5),(8)-(11),(15)*

Intermediate Wildland Fire Behavior S-290 – NWCG (32 hours)  
*NFPA 1033 1.3.7(1),(2),(5)*

**CONFERENCES**

2013 CCAI November Training Conference: San Luis Obispo, CA  
*NFPA 1033 1.3.7(1)-(5),(8)-(11),(13)*

2012 CCAI March Training Conference: San Luis Obispo, CA  
*NFPA 1033 1.3.7(1)-(5),(8)-(11),(13)*

2011 IAAI Annual Training Conference: Las Vegas, NV  
*NFPA 1033 1.3.7(1)-(5),(8)-(11),(13),(15),(16)*

**EXPERT WITNESS TESTIMONY**

San Diego Superior Court Case No. CD269112, Preliminary Hearing – January 12, 2017  
San Diego Superior Court Case No. 37-2015-00022643, Deposition – June 3, 2016

San Diego Superior Court Case No. CD264487, Preliminary Hearing – February 23, 2016  
San Diego Superior Court Case No. CD264367, Preliminary Hearing – November 23, 2015  
San Diego Superior Court Case No. CD255780, Preliminary Hearing – February 5, 2015  
San Diego Superior Court Case No. CD258104, Preliminary Hearing – November 4, 2014

## **COURSES INSTRUCTED**

### **2016**

Vehicle Fire Investigation – CSFM Investigation 1A, Southwestern College  
Auto Arson – CDAA Fraud Symposium  
CAD Basics for Fire Investigators – SDFD MAST/CCAI  
Vehicle Fire Investigation: A Step-by-Step Approach – SDFD MAST/CCAI  
Vehicle Fire Investigation – CSFM Investigation 1A, Southwestern College

### **2015**

From Everest to Arsonist, Suicide in the Courtroom – San Diego Chapter of CPCU

## **PROFESIONAL MEMBERSHIPS**

International Association of Arson Investigators (IAAI) since 2010  
California Conference of Arson Investigators (CCAI) since 2010  
National Association of Fire Investigators (NAFI) since 2012  
Society of Automotive Engineers (SAE) since 2017

CV P. Buckley March 17, 2017