

F.I.R.E. *Associates*

Fireplace, Chimney & Venting Consultants

CURRICULUM VITAE

&

PROFESSIONAL REFERENCES

FOR: DALE W. FEB

A Professional Fireplace, Chimney & Venting Consultant

Specializing in:

**CARBON MONOXIDE INVESTIGATION
CERTIFICATION OF INSPECTION PROGRAM
CODE ASSESSMENT, APPLICATION & INVESTIGATION
CONSTRUCTION DEFECT ANALYSIS
CRIMINAL INVESTIGATION
DISASTER SAFETY ASSESSMENT
EDUCATIONAL PRESENTATIONS
FIRE LOSS INVESTIGATION
FORENSIC INVESTIGATION
GENERAL CONSULTING SERVICES
INDUSTRY STANDARDS APPLICATION
LITIGATION SUPPORT
NATURAL DISASTER ASSESSMENT
PERSONAL INJURY INVESTIGATION
PLAN REVIEW AND ANALYSIS
PRE-LISTING INSPECTION
PRODUCT CONSULTING
PRODUCT FAILURE ANALYSIS
PRODUCT PERFORMANCE INVESTIGATION
RESALE INSPECTIONS
RESIDENTIAL & COMMERCIAL INVESTIGATIONS**

(Refer to Professional Services for More Details)

BUSINESS TITLE

Certified Inspector / Senior Investigator

F.I.R.E. Associates

11/01/06 - Current

5325 Commerce Ave, Unit 5

Moorpark, California 93021 Phone (805) 552-9954 Fax (805) 552-9123

Owner/ Executive Director

Fireplace Investigation, Research & Education Service

01/01/00 - Current

5325 Commerce Ave, Unit 5

Moorpark, California 93021 Phone (805) 552-9958 Fax (805) 552-9123

President / CEO

Dale Warren Feb Inc.

01/25/99 - Current

448 Sundance Street

Thousand Oaks, California 91360 Phone (805) 492-6363 Fax (805) 552-9123

Owner / Inspector

D-Way Fireplace Inspection Service

01/01/90 – 10/31/06

5325 Commerce Ave, Unit 5

Moorpark, California 93021 Phone (805) 552-9954 Fax (805) 552-9123

EDUCATION

Thousand Oaks High School

Graduated/ G.E.D 1984

Moorpark College, Moorpark, Ca.

1988

Business Management and Organization

Pacesetter School, Inc.

(586 Hours) 06/93 - 11/93

In-depth study of the Uniform Building Code including: Administration, Occupancies, and Fire Resistive Standards. Types of construction: Engineering and Detailed Regulations; also covered Electrical, Mechanical, and Plumbing Codes. Special classes during course covering: Plan review and all aspects of counter procedures.

Oxnard College, Oxnard, Ca.

Fire Technology:

(FT-51) Introduction to Fire Technology.

02/02/94 - 05/31/94

(FT-68) Fire Investigation.

08/19/96 - 12/18/96

CERTIFICATIONS AND LICENSING

ICC Certified Building Inspector # 0871896-B5
ICC Certified Building Inspector UBC # 0871896-10
ICC Certified Mechanical Inspector # 0871896-M5
ICC Certified Mechanical Inspector UMC # 0871896-44
ICC Certified Residential Combination Inspector # 0871896-R5
ICC Certified Combination Dwelling Inspector, Uniform Codes # 0871896-56
IAPMO, Certified Mechanical Inspector # 090478
UFCA Certified Fire Code Inspector # 500291-00 (DNR)
California State Registered Safety Assessment Building Inspector #SAP64626
California Licensed Mechanical Contractor (C-20 / HIC) # 619485
C.R.E.I.A. "Master Certified Inspector" # 0017
C.R.E.I.A. "New Construction Specialist"
F.I.R.E. Certified "Fireplace & Chimney Inspector. # FP-001
National Fireplace Institute Master Hearth Professional # 135479
National Fireplace Institute Certified Gas Technician # 135479
National Fireplace Institute Certified Wood-burning Specialist # 135479
National Fireplace Institute Certified Pellet Specialist # 135479
IAFCI "Certified Professional Inspector" # CI-007

INDUSTRY RELATED TRAINING

(The following are examples of Mr. Feb's continuing education and his commitment to this industry)

Public Inspector Training, Pacesetters Inc. Training Program, City of Apple Valley, Bell, Diamond Bar, and Yucaipa, Ca. (274.5 Hours) 11/92 - 06/93

Public Service and Inspections; Counter Technician: Issued permits, phone inquiries, Building Inspector: Rough Framing, Combination, and Final Inspections. Inspection of Footings / Set back, Ground Plumbing, Slab Grade, Insulation, Drywall, Earth Quake Retrofit, Roofing, and Mechanical Equipment.

Contractor State License Board, Los Angeles, Ca.

03/14/97

Completion of a four-hour Industry Expert Program course. This course testifies to the student's interest, development, and preparation for responsibility in State service.

Advanced Fire Investigation, Camarillo, Ca.

02/07/00 - 02/10/00

A four-day, 32 hours of tested instruction which included a full-scale training with live fire and complete investigation. The Instructors were John DeHaan & Lamount McGill.

California Conference of Arson Investigators, San Luis Obispo, Ca. 01/22/01 – 01/24/01

Completion of twenty-two hours of investigation training in Advanced Fire/Arson Investigation.

Manufactured Housing Inspection Certification, Riverside, Ca. 06/26/01
Full day education program presented by Fleetwood Manufacturing.

ICBO Seminar # 685, Fundamentals of Mechanical Inspection, Granada Hills, Ca. 06/06/02
Full day education course on the application of the 1997 Uniform Mechanical Code. The Instructor was Mr. Kenneth G. Larsen, I.C.B.O.

California Conference of Arson Investigators, Seaside, Ca. 06/22/02 – 06/24/02
Completion of twenty hours of investigation training and successfully passed a written performance exam in Advanced Fire/Arson Investigation.

Chimney Physics, Plainfield, Indiana 06/29/02 - 06/31/02
Three-day course on diagnosis and resolution of chimney performance problems related to "tight" construction. Presented by the Chimney Safety Institute of America.

California Conference of Arson Investigators, San Luis Obispo, Ca. 01/26/04 – 01/28/04
Completion of twenty hours of investigation training and successfully passed a written performance exam in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 01/31/05 – 02/02/05
Completion of twenty hours of investigation training and successfully passed a written performance exam in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 07/18/05 – 07/20/05
Completion of twenty hours of investigation training and successfully passed a written performance exam in Advanced Fire/Arson Investigation.

Investigation of Gas and Electric Appliance Fires, St Joseph, Michigan 05/09/06 – 05/12/06
A four-day, 30 hours of tested instruction which included hand-on lab investigation, demonstration of failure modes and class room instruction. The Instructors were Jack L. Sanderson & James M. Finneran.

California Conference of Arson Investigators, Seaside, Ca. 07/17/06 – 07/19/06
Completion of twenty hours of investigation training and successfully passed a written performance exam in Advanced Fire/Arson Investigation.

ICC Seminar, 2003 IBC Wood Framing, Granada Hills, Ca. 11/02/06
Six-hour education course on the application of the 2003 International Building Code. The Instructor was Mr. Kenneth G. Larsen, President & CEO of National Code Consultants.

California Conference of Arson Investigators, San Luis Obispo, Ca. 03/26/07 – 03/28/07
Completion of twenty hours of investigation training and successfully passed a written performance exam in Advanced Fire/Arson Investigation.

ICC Seminar, New California Code & the 2006 UPC & UMC “Drain Waste, Venting, Combustion-Air Supply Connections”. Woodland Hills, Ca. 09/06/2007
Seven-hour education course on the above mentioned items. The Instructor was Mr. Kenneth G. Larsen, C.B.O.

**IAAI, International Association of Arson Investigators, “Forensic Scene Reconstruction”
South Padre Island, Texas. 11/15/07 & 11/16/2007**
Sixteen-hour tested education on Fire Investigation and Forensic Scene Reconstruction.
The Instructors were Dr. John DeHann and Dr. David Icove.

**IAAI, International Association of Arson Investigators, Annual Training Conference,
Victoria, British Columbia, Canada. 04/30/07 – 05/04/07**
Thirty-six hours of Fire Investigation Scientific based Training.

CCAI, Tulare Fire Department, Central Valley Arson Investigators 05/10/08
Advanced Explosive Recognition, Completion of eight hours of instruction and live fire lab.

California Conference of Arson Investigators, San Luis Obispo, Ca. 03/3/08 – 03/05/08
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 11/03/08 – 11/05/08
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 03/30/09 – 04/01/09
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 11/09/09 – 11/11/09
Completion of twenty hours of investigation training and successfully passed a written
performance exam in Advanced Fire/Arson Investigation.

**California Building Officials Training Institute, SAP Evaluator A1, Post-Disaster Safety
Assessment Evaluator Training, Thousand Oaks, California. 04/09/09**
This course is a seven-hour training program produced by the State of California Governor’s
Office of Emergency Services. This course qualifies this individual to provide or assist in the
assessment of damaged structures after a natural disaster.

**California Building Officials Training Institute, SAP Coordinator B1, Post-Disaster Safety
Assessment Coordinator Training, Thousand Oaks, California. 04/13/09**
This course is a seven-hour training program produced by the State of California Governor’s
Office of Emergency Services. This course qualifies this individual to provide or assist in the
assessment and coordination of personnel and materials after a natural disaster.

IAPMO Seminar, Green Plumbing and Mechanical Concepts. Woodland Hills, Ca. 6/03/09
Eight-hour education course on the above mentioned items. The Instructor was Mr. Mike
Mitchell with the San Francisco Building and Safety Department.

IAAI & Missouri State Fire Marshal Office Fire Investigation Training 06/25/10
Recognition of Arson Fire Patterns per NFPA 921, seven hours.

IAAI & Missouri State Fire Marshal Office Fire Investigation Training 06/26/10
Commercial Kitchen Fires per NFPA 921, four hours.

IAAI & Missouri State Fire Marshal Office Fire Investigation Training 06/27/10
Fireplace, Chimney & Vent Fires per NFPA 921, six and one-half hours, presenter.

International Code Council 2010 CFC & CBC Review 10/21/10
California Fire Code & California Building Code changes were discussed in this six hours course sponsored by the Beverly Hills Fire Department. This information included the adoption of the International Codes.

California Conference of Arson Investigators, San Luis Obispo, Ca. 11/08/10 – 11/10/10
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

IAAI, International Association of Arson Investigators, 62nd Annual Training Conference, Las Vegas, Nevada. 05/01/11 – 05/06/11
Thirty-four hours of tested training on Fire Investigation and Related Investigation Matters.

California Conference of Arson Investigators, San Luis Obispo, Ca. 11/07/11 – 11/09/11
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 03/26/12 – 03/28/12
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation. Main Focus; Live Burns, Elevated Fires & Fire Scene Documentation presented by John D. DeHaan & David J. Icové.

Central Valley Arson Investigators, Tulare, Ca. 05/12/12
Advanced Explosive Recognition Class, Completion of eight-hours of instruction and live field explosions which include both low and high pressure explosives.

Preparing for the 2012 International Building Code, Los Angeles, Ca. 10/09/12
Completion of a 7.5 hour targeted training on significant changes to the International Building Code. This class was held at the Alhambra Los Angeles Public Works Building and included review of the 381 page workbook Coauthored and presented by Douglas W. Thornburg.

California Conference of Arson Investigators, San Luis Obispo, Ca. 10/29/12 – 10/31/12
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

California Conference of Arson Investigators, San Luis Obispo, Ca. 03/25/13 – 03/27/13
Completion of twenty hours of investigation training in Advanced Fire/Arson Investigation.

Central Valley Arson Investigators, Tulare, Ca. 05/04/13
American Criminal Bombing, Completion of eight-hours of instruction and live lab which meet the requirements set fourth by NFPA 1033.

WORK EXPERIENCE

F.I.R.E. Associates **10/06 – Present**
Moorpark, California

Senior Investigator / Consultant / Expert Witness

F.I.R.E. Associates is a nationally represented company that provides fireplace consulting services, fire investigation and litigation support across the United States. F.I.R.E. Associates is one of the few unbiased fireplace, chimney and venting consulting companies in the United States and performs no repairs or service. This professional approach eliminates all conflicts of interest and ensures an accurate investigation.

Fireplace Investigation, Research & Education Service **01/00 – Present**
Moorpark, California

Executive Director for Hearth Education & Certifications

The focus of this training company is to provide a catalyst for the Fireplace, Chimney, Venting, Home Inspection, and Fire Investigation Industries. We are bringing these professionals and their industries together to provide comprehensive and accurate information. This professional education incorporates the building codes, manufacturers' requirements and the expert experience of the instructors and others. All of the fireplace requirements are covered in detail, as well as all other applications that may have an effect on the use, safety, or life of the fireplace and the surrounding dwelling.

D-Way Fireplace Inspection Service, Inc. **01/90 – 10/06**
Moorpark, California

Inspector / Consultant / Expert Witness

This service performs on-site, resale and earthquake assessment inspection of masonry, pre-cast tilt-up, and factory-built fireplaces. It also provides litigation support, consulting services, reserve studies, and construction specifications.

Orange County Fire Authority, Investigation Section, Irvine California. **01/11 - Present**
Special Investigator and Consultant

Special Investigator for OCFA. Assist in investigations as a subject matter expert on fireplaces, chimneys and venting products. These investigations are provided to supply professional assist to OCFA during their fire investigations. Professional education is also provided to their personnel.

Ventura County Fire Department, Training Academy, Camarillo, California. **03/99 - Present**
Private Fireplace Consultant / Outside Training Provider

Fire investigation on fireplaces, chimneys and venting systems. These investigations are provided as a fire prevention service in an attempt to reduce or eliminate potential fire hazards. Professional education is also provided to these Public Investigators.

Tri-County Heating and Air Conditioning / Fireplace Systems, Newbury Park, Ca. **05/87 - 05/90**
Fireplace and Chimney Sales

Resale, on-site layout, plan review, proposals and problem solving for fireplace and chimney installations. This position required direct contact with the fireplace & chimney manufacturers as well as developers to ensure correct installations. Territory covered all of Los Angeles County and sections of Ventura County.

California Mechanical Systems, Newbury Park, Ca.

Installer / Job Foreman

11/82 - 05/87

Installation of Factory-Built Fireplaces, Warm-Air Heating, Ventilation Systems, Air-Conditioning and Solar for both residential and commercial application. This work was performed on both remodels and new construction.

City of Los Angeles

Emergency Operations / Disaster Building Inspector

01/24/94

Volunteer Building Inspector. Performed Emergency Earthquake Assessment for Structural Integrity and Safety of Residential Structures resulting from the 1994 Northridge Earthquake.

PROFESSIONAL SERVICES

Carbon Monoxide Investigation: This investigation evaluates the appliance in question as well as other mechanical systems within the dwelling. In some cases the operation of the appliance results in the entry of dangerous gases into the living space. In other cases, the dwelling and/or other mechanical devices are creating a conflict with the appliance. In both cases, the entry of carbon monoxide and other dangerous gases may result in personal injury. This investigation attempts to determine the cause and source of the C.O. entry and recommends methods of repair prior to and post injury.

Certification of Inspection Program: This program is a detailed inspection of the fireplace, chimney and/or venting system at the time of original installation or repair. The intent of this program is to help prevent the incorrect and unsafe installation or repair of these systems. The inspection process may take several visits and will help prevent fire and litigation.

Code Assessment, Application & Investigation: This service provides an in-depth study and investigation of the applicable Building Codes and their intent. This service may include confirmation of adoption and enforcement dates for all applicable codes for new construction, remodel or repair. This information is a vital aspect of fire investigation, construction and legal investigation.

Construction Defect Analysis: This service is for new construction, natural disaster assessment, or to assist in repairs of existing construction conditions. This service may include but is not limited to plan review, inspection, investigation report, analysis of modifications or alterations, on-site evaluation, use of alternate materials, design assistance and all the requirements for the correct installation or repair of new or existing conditions.

Criminal Investigation: This service offers criminal investigation for both prosecution and defense regarding fireplace, chimney, vent, commercial ovens and decorative gas-fired appliances as they relate to an event, action or crime. This may include investigation of performance, a specific event or an individual's action. This service may include but is not limited to on-site investigation, performance evaluation, document review, code interpretation, photo documentation, testing, written report, product review and grand jury or trial testimony. Current or past contract may include ATF, LA County District Attorney's Office, Riverside County's Public Defenders Office.

Disaster Safety Assessment: This service includes assessment of residential structures and associated buildings for damage and potential habitability after a natural disaster. Current registration is through the State of California Governor's Office of Emergency Services under the Safety Assessment Program. As a registered State Building Inspectors, these inspections are performed and provided to State, County and/or City entities.

Educational Presentations: This service provides educational presentations to the fireplace inspectors, fire investigators, public building inspector and private home inspectors. We are bringing these professionals and their industries together to provide comprehensive and accurate information. These presentations incorporate the building codes, manufacturer's requirements and the expert experience of the instructor.

Fire Loss Investigation: This service offers the forensic investigation of fireplace, chimney, vent, commercial ovens and decorative gas-fired appliances. This fire investigation is a detailed investigation of the cause and the area of origin of the fire as it relates to the appliance and surrounding materials. This service may include but is not limited to on-site inspection, overhaul review, photo documentation, written report, specification investigation and expert testimony.

Forensic Investigation: This investigation is a scientific study of an isolate system, appliance or component. This type investigation is commonly used once the primary investigator has isolated the area of original to a heat producing product.

General Consulting Services: This service may include plan review, site investigation, specification review, code confirmation, photograph review, design criteria, construction supervision, operation investigation and much more. During this process meetings, e-mail contact or site attendance may be required.

Industry Standards Application: This service compares the industry standards against the work product of inspectors and the workmanship of contractors. The work performed by these individuals must meet the industry standards as well as general building practice.

Litigation Support: This service is provided for subrogation, fire loss, personal injury and construction litigation throughout the United States. This service may include field discovery consisting of investigation, field notes, photography, sketches, testing, and/or video documentation. You may request technical discovery and research of listings, installation instructions, evaluation reports and code requirements based on the time of manufacturing and/or installation. The office work may consist of document and photographic review and the development of preliminary, supplementary and final reports. When necessary, these services include deposition, settlement meetings, mediation, arbitration, and trial testimony.

Natural Disaster Assessment: This service offers a full evaluation of the condition of the fireplace, chimney or venting system after a disaster. This inspection includes a detailed investigation of footing, firebox, transition, chimney, flue, seismic straps, and flashings. This inspection can be performed visually or by use of a chimney camera. I also discuss the available options of correction and methods of recommended repairs.

Personal Injury Investigation: This service evaluates the appliance and/or suspected cause of personal injury. The resulting injury could have been caused by physical contact, fire or inhalation. This investigation will attempt to determine the cause of this injury and assist in determining potential liability.

Plan Review and Analysis: This service provides consulting services based on the review of plans, building code, manufacturer's specifications, additional technical data and the experience of the consultant. This service evaluates the application of material and reduces construction cost. This review can be performed during the original design, remodel or after a problem has been detected. This service will prevent unnecessary litigation, property damage and personal injury.

Pre-Listing Inspection: This service offers the inspection of fireplaces, chimneys and vent systems prior to the listing of such property. This inspection provides the homeowner with a clear picture of the current condition and the approximate financial value of the conditions. This investigation prevents unwanted surprises during the resale process.

Product Consulting: This service provides information on product design and application as well as product performance review. This service includes the review of manufacturer's advertisement, installation and operation manuals, and any additional information for misinformation and potential failure to warn. The concept of a material and its application within a certain environment can be critical when applied around or within a heat producing system. This review is recommended prior to production to prevent unwarranted litigation.

Product Failure Analysis: This service provides a forensic investigation of a product after damage or a malfunction has occurred. This evaluation will attempt to determine the cause of the malfunction or failure.

Product Performance Investigation: This service provides an unbiased opinion of performance. This service can provide actual operation of an appliance or product to determine if it is performing as intended or promised.

Resale Inspections: This service offers the inspection of fireplaces, chimneys and vent systems at the transfer or resale of property. This inspection provides the client with an accurate assessment of the current condition of the system. This service also assists in protection against future fire, property loss and litigation.

Residential & Commercial Investigations:

This service is offered to both residential and commercial applications. The fireplace, chimney, venting and appliance investigation is based of the building codes, manufacture's specification and any standards that apply.

PROFESSIONAL DEVELOPMENT & INDUSTRY SERVICE

Mechanical Code-Check Publication

Provided consulting, verification and editing services for the first edition of the Mechanical Code-Check, quick access flip chart.

Examination Board of Professional Home Inspectors, Item-Writing Committee

January 31, 2001 - February 2, 2002, Chicago Illinois.

Assisted in developing, reviewing and validation of multiple-choice questions for the National Home Inspectors Examination. I also assisted in the re-development and validation of the sample test available by means of the Internet.

"Fire Investigator" March 1997 – January 2000

Author of the F.I.R.E. Service “Fire Investigator” Training Manual and Power-Point Training Program. Development of the seventy-four page training manual and the six-hour power-point training program. The manual includes eighteen chapters and ninety-five color photographs.

"Home Inspector & the Fireplace" March 1997 - Current (Continuous Development)

Author of the F.I.R.E. Service “HI-01” Training Manual and Power-Point Training Program. Development of the eighty-eight page training manual and the eight-hour power-point training program. The manual includes twenty-three chapters and one hundred and twenty-three color photographs.

"F.I.R.E. Certified Inspector Program" March 1997 - Current (Continuous Development)

Principal Author of the F.I.R.E. Service Fireplace & Chimney Inspector Certification Training Manual, Power-Point Training Program, and Certification Exam. Development of the one hundred nineteen page training manual and the forty-eight hour power-point training program. The manual includes thirty-one chapters and one hundred and seventy-five color photographs. Also included within this program are the F.I.R.E. Certification Exam and four open book tests.

"F.I.R.E. Certification Exam" March 1997 – September 3, 2008

Principal Author of the Fireplace & Chimney Inspector Certification Exam. Development and ongoing updates of two versions of the one hundred and twenty-five question multiply choice exam. This exam is regularly updated based on the changes within the building codes and the industry standards. The task of managing and administering the F.I.R.E. Exam was accepted by the IAFCI Examination Board on September 3, 2008.

NCSG Technical Advisory Council 2001 - 2008

Served as a Technical Advisor for the National Chimney Sweep Guild. The categories listed were “Fireplace Investigation, Fire Investigation, and Litigation Support”. Reply to technical questions regarding the listed subject matter above by means of emails and/or phone calls.

"Fireplace & Chimney Facts" March 2004 - April 2004

Author of the “Fireplace & Chimney Facts” Training Manual and Power-Point Training Program. Development of the eighty-eight page training manual and the eight-hour power-point training program. The manual includes twenty-three chapters and one hundred and twenty-three color photographs.

“Advanced Consulting & Professional Witness (part one)” February 2004 – March 2005
Co-Author of the, CPW-101 Training Manual and Power-Point Training Program. Development of the forty-one page training manual and four-hour power-point training program.

“Advanced Consulting & Professional Witness (part two)” February 2004 – March 2005
Co-Author of the, CPW-102 Training Manual and Power-Point Training Program. Development of the twenty-six page training manual and four-hour power-point.

NFPA 211 Technical Committee November 14, 2005 – October 2011

Principal Member of the NFPA Technical Committee on Chimneys, Fireplaces, and Venting Systems for Heat-Producing Appliances.

NFPA 211 Technical Committee – October 2011 – Current

Chairman of the NFPA 211 Technical Committee on Chimneys, Fireplaces, and Venting Systems for Heat-Producing Appliances. This position includes but is not limited to the following; Head all Committee meetings, Assist in direction to all Task Groups and to make recommendations for changes to the Standard.

International Association of Fireplace & Chimney Inspectors (IAFCI)

August 30, 2007 – Current

Founding Secretary of the International Association of Fireplace & Chimney Inspectors. This is an Organization designed to assist professional inspectors within the Hearth and Mechanical Industry. This Association is focused on education and professional performance.

UL Task Group February 27, 2008 – Current

Task Group under UL’s Standards Technical Panel (STP) for Solid Fuel Appliances (STP 127). The Task Group will be undertaking development proposals to UL 1482, Solid Fuel Type Room Heaters, particularly in the area of fireplace inserts.

“What Did I Miss?” Online Training Course. October 14, 2008 – Current

Author of the “What Did I Miss?” NFI He@rth Online Training Course. This course was developed and delivered for the Hearth Patio and Barbecue Education Foundation. This on-going 90 minute online training program will answer some important questions. The course objective was to understand common defects and their real value, fire loss and how it may affect your business, how to reduce potential risks to your company, and professional direction for prevention.

“F.I.R.E. Certified Technician Program” February 2008 - Current (Continuous Development)

Lead Author and Senior Editor of the F.I.R.E. Service FCT -101 Certification / 96 page Training Manual, 1552 slide Power-Point Training Program, and the 100 question Certification Exam.

IAAI Fire & Arson Investigator Editorial Review Board January 26, 2009 - 2011

Volunteer service to the International Association of Arson Investigators. Provide “Peer Review” of all hearth related articles submitted to IAAI for publication to the Fire & Arson Investigator Journal and or the Association website. This committee acts as a clearinghouse for peer-reviewed articles to be exchanged. Provide Peer review of other publications, video and or print, as requested by the Board of Directors providing a recommendation of findings.

Special Investigator and Consultant for Orange County Fire Authority

January 2011 - Present

Contacted with OCFA for investigations as a Special Investigator and subject matter expert on fireplaces, chimneys and venting products. These fire investigations are provided to assist OCFA in their investigations. Personal education is also provided to the OCFA Public Investigators.

CCAI Technical Publication Review Committee. March 2011 – March 25, 2012

Volunteer Member of Committee providing service to the California Conference of Arson Investigators. This service provides technical review of all articles submitted for publication within the CCAI quarterly magazine and all website posting.

Chairman of the CCAI Technical Publication Review Committee.

March 25, 2012 – Current

Chairman of the committee providing service to the California Conference of Arson Investigators. This service provides technical review of all articles submitted for publication within the CCAI quarterly magazine and website. As Chairman, the tasks include committee development, distribution of articles to the committee members, managing the review process, and contributing to the review and accuracy of these articles.

“Fire Safety, Prevention & Suppression” November 5, 2011

Author and Presenter of the 7 page training manual and the hands-on live-burn training program. This was presented to the staff of Niños De Baja Orphanage in El Porvenir, Mexico.

Appointed to the CCAI Board of Directors. January 4, 2012 - Current

The current President of the California Conference of Arson Investigators, Bill Kilpatrick, contacted me and requested that I fill a vacated Director position for Brad Martin. I accepted on this date and will continue to serve the remainder of this term.

CCAI Board of Directors. March 26, 2012 - Current

The Members of the CCAI voted for my continued service for the next term at the general membership meeting held during the March Education Conference. I accepted this vote of confidence on this date and will continue to serve this Association.

Designated California State License Board Expert Consultant.

September 10, 2012 - Current

This position includes review of complaints, contract review, site investigation, product application assessment, code compliance, determination of standard of care and recommendations for appropriate remediation.

CCAI Ethical Practice & Grievance Committee. March 27, 2013 – Current

Appointed by current CCAI President Scotty Baker. This service includes investigation of all ethic complaints and grievances for the California Conference of Arson Investigators.

PUBLISHED ARTICLES

Bond Beam Heat Transfer

- The CREIA Inspector, May-June 1996.

A Top Observation at Shrouds and Surrounds

- The ASHI Reporter, February 1998.

Bond Beam Heat Transfer in Post-Quake Repairs

- ICBO Building Standards, July-August 1998.

Pre-Cast Concrete Fireplace Damage and Repair

- The CREIA Inspector, January-February 2001.
- SNEWS Magazine (The Chimney Sweep News) March 2001.

Premature Failure of a Factory-Built Fireplace

- The CREIA Inspector, September-October 2001.
- SWEEPING, The journal of Chimney and Venting Technology, October 2001.

Fireplace Smoke Test

- SNEWS Magazine (The Chimney Sweep News) April 2002

The Changing Face of the Fireplace, Chimney & Venting Industry

- ITA Report (Inspection Training Associates Magazine). November 2005 Volume 13 Issue 5.
- ITA Report (Inspection Training Associates Magazine). December 2005 Volume 13 Issue 6
- The Inspector (CREIA, California Real Estate Inspection Association). November/December 2005.
- Chimney News, Midwest Chimney Safety Council Newsletter, Fall 2005, Volume XII, Issue 3.
- FBI, Florida Inspection Voice (Florida Association of Building Inspectors) November 2005, Winter Issue.
- Communicator (The voice of our Nation's Appraisers & Home Inspectors). Issue 39, Fall 2005.
- FIRE & ARSON Investigator (CCAI, California Conference of Arson Investigators) January 2006, Volume 1, NO. 5.

The Changing Face of Our Industry

- SNEWS, The Chimney Sweep News. December 2005 Volume 27, Number 3

Analyzing Fireplace & Chimney Environments

- FIRE ARSON & INVESTIGATOR Journal of the International Association of Arson Investigators Inc. October 2009, Volume 60, Number 2.
- California Fire/Arson Investigator magazine of the California Conference of Arson Investigators Inc. Winter 2011, Electronic Delivery.

Swept Away a' la 'Mary Poppins', Duties of a Chimney Sweep and Subrogation

- **Property Casualty 360°**, A National Underwriter Website, March 27, 2012.

SPEAKING ENGAGEMENTS

1990 CREIA, Los Angeles Chapter Monthly Educational Meeting on "Fireplace Problems"

1991 CREIA, San Fernando Valley Chapter Monthly Educational Meeting "Fireplace Red Flags"

1991 CREIA, Inland Empire Chapter Monthly Educational Meeting on "Fireplace Inspections"

1992 CREIA, Central Coast Chapter Monthly Educational Meeting on "Fireplace Problems"

1993 CREIA, Annual Education Conference, San Francisco, California "Fireplace Construction and Inspection"

1993 CREIA, Inland Empire Chapter Mini Seminar, "Chimney, Venting and Flue Systems"

1994 CREIA, Annual Education Conference, Las Vegas, Nevada "Fireplace Inspections"

1994 HOME TIPS cable radio show, Sunland, California "Fireplace Safety"

1995 CREIA, Greater San Gabriel Valley Chapter Monthly Education Meeting on "Fireplace Inspections"

1995 May 31. "FIREPLACE REPAIR AND INSTALLATION SEMINAR", Full Day Seminar. This seminar was offered to Architects, Engineers, Contractors, Private Inspectors and Public Inspectors. Subject matter contained Legal Liability, Risk of Fire, Code, Factory-Built Metal Fireplaces, Factory-Built Pre-Cast Fireplaces, Masonry Fireplaces, Retrofit & Repair, and Masonry Fireplace Forms.

1995 August 23. "FIREPLACE REPAIR AND INSTALLATION SEMINAR", Full Day Seminar. This seminar was offered to Architects, Engineers, Contractors, Private Inspectors and Public Inspectors. Subject matter contained Legal Liability, Risk of Fire, Code, Factory-Built Metal Fireplaces, Factory-Built Pre-Cast Fireplaces, Masonry Fireplaces, Retrofit & Repair, and Masonry Fireplace Forms.

1995 CREIA, San Fernando Valley Chapter monthly education topic on "Fireplace Inspections".

1996 April 10. "FIREPLACE REPAIR AND INSTALLATION SEMINAR", Full Day Seminar. This seminar was offered to Architects, Engineers, Contractors, Private Inspectors and Public Inspectors. Subject matter contained Legal Liability, Risk of Fire, Code, Factory-Built Metal Fireplaces, Factory-Built Pre-Cast Fireplaces, Masonry Fireplaces, Retrofit & Repair, and Masonry Fireplace Forms.

1996 CREIA, Orange County Chapter, Toolbox Seminar on "Fireplace Inspections".

1997 Golden State Chimney Sweep Guild, Orange County, "1997 Southern Ca. Workshop".

1997 CREIA, West L.A. & South Bay Chapter Monthly Education Meeting on "Fireplace Inspections".

1997 March 12. "FIREPLACE INSPECTION SEMINAR", Full Day Seminar. This seminar was offered to Architects, Engineers, Contractors, Chimney Sweeps, Private Inspectors as well as Public Inspectors. Subject matter contained Repair Material, Legal Liability, Risk of Fire, Code, Factory-Built Metal Fireplaces, Factory-Built Pre-Cast Fireplaces, Masonry Fireplaces, Retrofit & Repair, and Masonry Fireplace Forms.

1997 Golden State Chimney Sweep Guild, San Diego, "17th Annual Convention."

1997 CREIA, Annual Education Conference, San Diego, California "Fireplace Inspections".

1998 CREIA, Mid Year Mechanical Conference, Ontario, California "Vented and Un-vented Prefabricated Fireplaces".

1998 CREIA, Annual Education Conference, San Francisco, California "Up in Smoke" Fireplace Inspections.

1999 July 6. Ventura County Fire Department, Camarillo, California "Fireplace Investigation". This three-hour seminar was offered to the Fire investigators of L.A. City, L.A. County, City of Burbank, Ventura County and the A.T.F.

1999 November 12. National Housing Inspection, Annual Conference, Las Vegas, Nevada "Fireplaces: Construction & Inspection".

1999 November 19. CREIA, Orange County Chapter, Toolbox Seminar on "Fireplace Inspections".

1999 November 20. CREIA San Diego Chapter, Toolbox Seminar on "Fireplaces".

1999 December 9. CREIA Conejo Valley Chapter Monthly Educational Meeting on "Fireplace Issues".

2000 January 19. ASHI – CREIA Combined Annual Education Conference, San Diego, California "Fireplace Inspections"

2000 January 29. "THE MONEY PIT" live radio show, transmitted from Boston. Broadcast to forty-nine states. "Fireplace Use and Safety"

2000 April 3rd – 8th (First Class) to Current (Moorpark California and Richmond Virginia) F.I.R.E. Service, "FIRE Certified Fireplace Inspector" Six-Day, Forty-Eight Hour Training Program. This course includes History of the Fireplace Inspection Service, The Professional, Your Liability, Forensic Evaluation & Report Writing, Understanding Fire Technology, Understanding the Operation of the Fireplace, Recognizing the Fireplace, General Fireplace Requirements, Masonry Fireplace, Masonry Firebox Components, Masonry Chimney Components, Masonry Flue, Metal Factory-Built Fireplaces, Pre-Cast Fireplaces, Cast In-Place Fireplace, Prefabricated Fireplace Forms, Masonry Fireplace with a Listed Metal Chimney, Inserts, Wood Stoves, Gas Burning Appliances and Decorative Gas Logs, Lining Systems, Finish

Materials, Marketing Your Business, Code & Manufacturers Requirements, Working With the Professional, The Investigation Begins, Condo Inspections, Evaluation and Repair, Reinstallation of Components, Fuel Information, and the Certification Testing.

2000 May 8. CREIA, Inland Empire Chapter Monthly Education Meeting on “Fireplace Inspections”.

2000 June 10th (First Class) to Current (Moorpark California and Richmond Virginia) F.I.R.E. Service, "Home Inspector & The Fireplace" One-Day, Eight-Hour Training Program. This course includes the following module as well as the expert opinion of the instructor. The Industry Standards, Understanding Fire Technology, Understanding the Operation of the Fireplace, Metal Factory-Built Fireplaces, Pre-Cast Fireplaces, Cast In-Place Fireplaces, Masonry Fireplaces,

Rumford Fireplaces, Masonry Fireplaces with a Listed Metal Chimneys, Prefabricated Fireplace Forms, Inserts, Free Standing Fireplaces, Wood Stoves, Other Systems, Gas Burning Appliances and Decorative Gas Logs, Lining Systems, Finish Materials, Code & Manufacturers Requirements, Staying out of Court, Report Writing & Disclaimers, When to Refer the Specialist, Statement recommendations, and The Investigation Begins.

2000 July 27. Golden State Chimney Sweep Guild, Sacramento California, 20th Annual Convention. “Chimney Safety Assessment”.

2000 August 29. ITA, Inspection Training Associates, Annual Education Conference, Las Vegas, Nevada “Fireplaces and Wood Stoves”.

2000 November 18th (First Class) to Current (Moorpark California) F.I.R.E. Service, "Pre-Cast Concrete Fireplace Course" Six-Hour Training Program. This course includes the following module as well as the expert opinion of the instructor. Pre-Cast Concrete Fireplaces, Sales Brochures, Specifications, Assembly & Construction, Delivery & Installation,...

Additional Code Requirements, Damage, Approved Repair Methods, Report Writing, Court Supported Documentation, and Review.

2001 January 26. Pillar to Post Professional Home Inspection Franchise, Las Vegas, Nevada, Annual Conference, “Wood Stoves”. One and one-half hours.

2001 January 27. Pillar to Post Professional Home Inspection Franchise, Las Vegas, Nevada, Annual Conference, “Fireplaces”. One and one-half hours.

2001 March 9. CCIA Round Table Education Meeting, San Diego, California, “Fireplace Fire Investigations”, one and one-half hours.

2001 July 10. CREIA Greater San Gabriel Chapter Monthly Educational Meeting on “Fireplace Assessment and Evaluation”.

2001 July 25. Golden State Chimney Sweep Guild, Buena Park California, 21st Annual Convention. Four hour presentation on “Doors of Opportunities” & "Earthquake Assessment".

2001 August 8. California Fire Chiefs Association Fire Prevention Officers Section, Southern California, Monthly Membership Meeting, Orange, California. One and one-half hour Presentation. "Factory-Built Termination, Spacers and Air Gap Requirements". Co- Presented with Ralph Crain, Fire Marshal with the City of Rancho Cucamonga.

2001 September 7. CREIA, Annual Education Conference, San Diego, California "Improve Your Resume".

2001 October 26. First Class to Current (Moorpark California) F.I.R.E. Service, "Fire Investigator Fireplace Course" Six-Hour Training Program. This course includes the following module as well as the expert opinion of the instructor. Understanding the Operation of the Fireplace, Metal Factory-Built Fireplaces, Pre-Cast Fireplaces, Cast In-Place Fireplaces, Prefabricated Fireplace Forms, Masonry Fireplaces with a Listed Metal Chimneys, Inserts, Wood Stoves, Gas Burning Appliances and Decorative Gas Logs, Lining Systems, Finish

Materials, Understanding Fire Technology, Methods of Travel, Overheating of the Fireplace, Overheating of the Flue, Evaluation and Repair, Code & Manufacturer's Requirements.

2002 January 16. ASHI Annual Education Conference, Location, New Orleans, Louisiana "Fireplace Red Flags".

2002 January 26. F.I.R.E. Service, Home Inspector Training Program, Moorpark California. Eight Hours Education Course.

2002 February 8. California Fire Chiefs' Association, Fire Prevention Officers' Section, California Fire Prevention Institute, 12th Annual Workshop, Monterey California. "Fireplace Investigation".

2002 March 2. KREIA, Kentucky Real Estate Inspection Association, First Annual Education Conference, Lexington, Kentucky, "Fireplace & Chimney Inspection".

2002 March 16. St. Louis A.S.H.I. Chapter Spring Seminar, St. Louis, Missouri "Fireplace Red Flags"

2002 April 20. CREIA, Spring Education Conference, San Jose, California "Fireplace Inspection, Risk and Management".

2002 September 20. CREIA, Fall Education Conference, Ontario, California "Back to Basics".

2002 September 21. CREIA, Fall Education Conference, Ontario, California "Carbon Monoxide".

2002 October 14. ITA, Inspection Training Associates, Annual Education Conference, Las Vegas, Nevada "Fireplaces Liability".

2003 January 13. CCAI, California Conference of Arson Investigators, Annual Education Conference, Seaside, California "Fireplace Construction & Fires".

2003 January 16. ASHI, American Society of Home Inspectors, Annual Education Conference, Orlando, Florida. "Solid Fuel & Gas Burning Dangers".

2003 February 21. National Chimney Sweep Guild Annual Education Conference, Hershey Pennsylvania, Spoke on Discussion Panel with Bob Zimmerman with Underwrites Laboratories & Wayne Terpstra with Hearth & Home Technologies (Heatilator).

2003 April 2, 3 & 4. Northeast Chimney Sweep Association, Annual Education Conference, Panama Florida, "Cause & Effect...The Field Investigation"

2003 May 26. Wood Heating and Barbecue Association of Canada, Annual Educational Forum, Richmond B.C., Canada, "Fireplace Inspection Risk Management".

2003 June 21. NAHI, National Association of Home Inspectors, Summer Seminar, Portland Oregon, "Fireplace Forensics".

2003 September 22. IAAI, International Association of Arson Investigators –Oregon Chapter 31 Conference, Newport Oregon, "Fireplaces" Through the Eyes of an Expert.

2004 April 23. CREIA, Spring Education Conference, San Jose, California Panel Discussion, "Inspection Basics & Beyond".

2004 July 7. Golden State Chimney Sweep Guild Convention, Burbank, CA. "Fuel for Thought".

2004 July 26. CCAI, California Conference of Arson Investigators, Wildland & Structure Fire Conference, Seaside, CA. "Fireplace Fires".

2004 September 17. AHIT, American Home Inspectors Training Institute's 1st Annual InspectFest Conference, Chicago, IL. "Fireplace & Chimney Forensics" (X2).

2004 September 21. ITA, Inspection Training Associates, Inspection Expo, Las Vegas, NV. "Fireplace Risk Management"

2004 September 30. Camp CREIA Advanced Mentoring Program, Presentation and Recording, Costa Mesa, CA. "The Mechanics"

2004 October 2. CREIA Fall Conference, Costa Mesa, Ca. "HOT TOPIC: Everything You Didn't Know About Fireplaces".

2005 January 14. ASHI Inspection World 2005, Austin, TX "Fireplace & Chimneys".

2005 February 23. HBPA, Hearth Education Foundation, Hearth, Patio, & Barbecue Expo 2005, Atlanta, GA. "Fireplace and Chimney Forensics".

2005 February 23. HBPA, Hearth Education Foundation, Hearth, Patio, & Barbecue Expo 2005, Atlanta, GA. "Fire Facts".

2005 April 30. OCSA, Oregon Chimney Sweeps Association, Oregon Sweeps Conference, Ashland, OR. "Fuel for Thought: Fireplace & Chimney Investigation".

2005 June 5. HPBAC, Hearth, Patio & Barbecue Association of Canada, Western Chapter HPBAC Conference, Richmond, BC “Inspections”.

2005 June 5. HPBAC, Hearth, Patio & Barbecue Association of Canada, Western Chapter HPBAC Conference, Richmond, BC, “Unfriendly Fire”.

2005 June 5. HPBAC, Hearth, Patio & Barbecue Association of Canada, Western Chapter HPBAC Conference, Richmond, BC, “Hands-On Technical Workshop”.

2005 July 7. GSCSG, Golden State Chimney Sweep Guild, Convention and Trade Show, Lakeside, CA. "F.I.R.E. Facts and Findings".

2005 October 12. CREIA, California Real Estate Inspection Association, Fall Conference, Palm Springs, CA. “Expert Witness Preparation”.

2005 December 3. FABI, Florida Association of Building Inspectors, Quarterly Conference & Trade Show, Orlando, FL. “The Truth About Fireplaces”.

2006 March 8. HPB, Hearth, Patio & Barbecue, EXPO 2006 Conference, Salt Lake City, UT. “Installation Defects Part 1”.

2006 March 8. HPB, Hearth, Patio & Barbecue, EXPO 2006 Conference, Salt Lake City, UT. “Installation Defects Part 2”.

2006 April 21. CREIA, California Real Estate Inspection Association, Spring Conference, San Jose, CA “What’s New in Fireplace Technology”.

2006 April, 01 NCSG, National Chimney Sweep Guild, Convention & Trade Show, Gault House, Louisville. “Inspection Reporting Best Practices” Panel Discussion.

2006 November 4. IAQA, Indoor Air Quality Association, Third Annual Symposium, Irvine California. “Being an Expert”.

2006 November 7, San Bernardino County Fire Arson Investigators Association and the California Conference on Arson Investigators Round Table #10, Rancho Cucamonga, California, “Fireplace Operation & Investigation”.

2007 April 18, NCSG, National Chimney Sweep Guild, Innovation 2007 Convention & Trade Show, Uncasville, Connecticut “ Inspections: Identification & Delivery”.

2007 May 02, IAAI, International Association of Arson Investigators, 2007 IAAI ATC, Victoria, B.C., Canada. “Fireplace Fires”.

2007 July 12, GSCSG, Golden State Chimney Sweep Guild, Convention and Trade Show 2007, Orange, California. “ Code; Intent & Application”.

2008 February 27, HPB Expo, Hearth Patio, Barbecue Convention & Trade Show 2008, Atlanta Georgia. “Carbon Monoxide and Fire Dangers”.

2008 February 27, HPB Expo, Hearth Patio, Barbecue Convention & Trade Show 2008, Atlanta Georgia. “What Did I Miss”.

2008 September 19, Southeast Home Inspectors Conference, Atlanta Georgia. “Hearth Products Fire & Health”.

2008 September 21, Southeast Home Inspectors Conference, Atlanta Georgia. “Hearth Products Fire & Health” (requested repeat of previous).

2008 October 14, NFI He@rth Online Training Class, “What Did I Miss?” for the Hearth Patio and Barbecue Education Foundation. This on-going 90 minute online training program will answer some important questions. The course objective was to understand common defects and their real value, fire loss and how it may affect your business, how to reduce potential risks to your company, and professional direction for prevention.

2009 February 28, CREIA California Real Estate Inspection Association, Tool Box Seminar, Orange County, CA “A Better Understanding of Chimneys & Fireplaces”

2009 September 25, Southeast Home Inspectors Conference, Atlanta, Georgia. “Hearth, Chimney & Venting Hazards”. A professional insight into venting & unvented hearth products.

2009 November 10, California Conference of Arson Investigators Training Seminar, San Luis Obispo, California. “Hearth Products and the Fire Scene” A clear understanding of heart products, industry standards, the subject matter expert, and expected operation & fire patterns.

2010 March 12, HBPA, Hearth Education Foundation, Hearth, Patio, & Barbecue Expo 2010, Orlando, Florida. “Prevention for Profit”. How to reduce property damage and personal injury due to installation, repair and service deficiencies.

2010 June 26, Missouri Chapter of IAAI Annual Training Conference, Lake Ozark, Missouri. “Understanding the Fireplace, Chimney & Venting Fire Scene”. This was a 6.5 hour training module developed by specifically for the fire investigators and their needs.

2011 April 07, Orange County Arson Task Group, “Fireplace & Chimney Investigation”. This was a 2-hour Closed Course Educational Presentation for the Public Investigators.

2011 May 05, IAAI, International Association of Arson Investigators, 2011 IAAI ATC, Las Vegas, Nevada. Four-hour presentation “Fireplace & Chimney Investigation”

ORGANIZATION AFFILIATION

IAAI, Member # 24591 (International Association of Arson Investigators).
CCAI, Member/ Director (California Conference of Arson Investigators).
International Code Council (ICC) Associate Member, No.15429-0.
IAPMO, Member # 94867 (International Association of Plumbing and Mechanical Officials).
NFPA, Member # 864001 (National Fire Protection Association).
NFPA Education Section Member, 2008 - Current
NFPA 211 Standards Writing Committee, Principal Member, 2005 – 10/2011
NFPA 211 Standards Writing Committee, Committee Chairman, 10/2011 - Current
IAFCI, Certified Professional Inspector # CI-007 (International Association of Fireplace and Chimney Inspectors). 2008-2013 / Founding Secretary
HPBA Member (Hearth Patio & Barbecue Association).
CREIA, Master CREIA Inspector, MCI # 0017
(California Real Estate Inspection Association).
1994 / Founding Secretary for the San Fernando Valley Chapter of CREIA.
1997 / Founding Secretary for the Conejo Valley Chapter of CREIA.
2002-2004 (two terms) / Region 5 Director
2003- 2004 Membership Ethics Committee
ASHI, Candidate # 204020 (American Society of Home Inspectors, Inc.).
SOCA FPO, # RG 353 (Southern California Fire Prevention Officers Association).

Last revised: 09/23/13