

## General Information

This course is approved by the IAAI Training & Education Committee for credit toward CFI. AHAM & CEA represent manufacturers of home appliances in the following categories: major appliances, portable kitchen, home comfort, personal care, floor care, and consumer electronics products that are electrical and gas fueled. For further information see [www.aham.org](http://www.aham.org) or [www.cea.org](http://www.cea.org).

## Instructors

James R. Allen - Coordinator/Instructor Fire Technology, Industrial Technology/Public Safety Department, Allan Hancock College, September 1997 to present. Retired from Office of the California State Fire Marshal Arson-Bomb Investigation Unit.

Kirk Hankins, IAAI-CFI - Current IAAI President. Regional Manager FCII, Columbia, MO.

Wayne Morris - VP of AHAM, on staff since 1994. Responsible for safety and product liability issues within the scope of AHAM. Was involved in the design, manufacture and safety standards of appliances from 1980-1994.

K. Scott Barnhill - Staff Engineer with Accident Reconstruction Analysis, Inc., Raleigh, NC. Registered professional engineer in North Carolina and has conducted many fire scene investigations involving electrical and appliance related fires.

Timothy L. Mullin, Jr. - Principal with the law firm of Miles & Stockbridge, PC, in Baltimore, MD. Has over 20 years experience in products liability law and safety of electrical appliances and over 25 years experience as a fire fighter and fire officer.

Randall Bills - Senior Project Electrical Engineer. Investigates electrical faults and malfunctions, focusing on those suspected of causing fire, equipment damage or electrocution. Conducts tests to determine reliability of products. Registered PE-OH, PA, IA, IL, MO, NY, AK, MD, TX, VA. BA Electrical Engineering-Ohio State 1983.

Donald J. Hoffman, PhD. - President Safety Engineering Laboratories, Inc., Warren MI. Registered P.E. & CFI, IAAI member. Conducted many fire scene investigations, fire debris examinations and fire damage evaluations involving electrical and electronic devices, appliances, and components.

Elizabeth C. Buc, PhD. - Materials Engineer, Safety Engineering Laboratories, Inc. Warren MI. Registered PE & NFPA member has performed full scale and bench scale burn tests, laboratory analysis of energized electronic devices, appliances and components, used in failure analysis and fire scene examinations.

International Association of Arson Investigators  
12770 Boenker Road  
St. Louis, Missouri 63044-2436



In Association with the  
Association of Home  
Appliance Manufacturers  
Presents

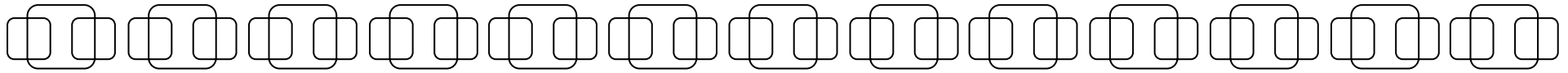
## Investigations of Electrical & Appliance Related Fires A Technical/Scientific Approach

Mesa Police/Fire Training  
Facility  
3260 North 40<sup>th</sup> Street  
Mesa, Arizona  
November 15-17, 2006

### SEMINAR CONTACTS:

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IAAI Office Manager  
(314) 739-4224  
[marsha@firearson.com](mailto:marsha@firearson.com)



### Registration Fees

Pre-Registration: \$200.00 IAAI & AHAM Members  
 \$250.00 Non Members  
 Registration at Door: \$250.00 IAAI & AHAM Members  
 \$300.00 Non Members

### Hotel Information

**Sleep Inn by Choice Hotels**  
 6347 East Southern Avenue, Mesa Arizona 85206  
 Phone 480-807-7760, 1-888-275-3374  
 Special Rate \$79.99 per night

**Best Western Superstition**  
 1342 South Power Road, Mesa, Arizona 85206  
 Special Rate \$74.00 per night

Reservations must be made by October 15, 2006.  
 Early reservations are recommended for the special rate. Please mention the IAAI-AHAM Fire Investigation training seminar to get the special rate.

## Schedule of Events

### Wednesday November 15

7:00 am Registration  
 8:00 am Opening Remarks  
 8:30 am Fire Scene Examination  
*Instructor Jim Allen - This session will acquaint the students with the latest version of NFPA 921 and relevant sections to today's fire scene examination and investigation.*  
 12:00 pm Lunch - On Your Own  
 1:00 pm Evidence Identification, Recovery, Storage and Presentation  
*Instructor Kirk Hankins - This session will look at proper techniques in accumulation of evidence and how this may be presented to best support theories of area of origin or causation.*  
 3:00 pm Appliance Fire Investigation in the Legal Arena  
*Instructor Tim Mullin - This session will focus on the legal aspects of fire investigation. Mr. Mullin will review the use of NFPA 921 in the courtroom, legal responsibilities of fire investigators, spoliation of evidence and issues surrounding the two major cases Daubert v. Merrill Dow and Kumho Tire v. Carmichael and the importance of these to fire investigations.*

### Thursday November 16

8:00 am Electricity for Fire Scene Examination  
*Instructor Wayne Morris - This session will review basic electrical theory and how it relates to the investigation of electrical or appliance related fires.*  
 10:00 am Electrical Components  
*Instructor Scott Barnhill - This session will review common electrical components involved in the design, manufacture and maintenance of electrical appliances.*  
 12:00 pm Lunch - On Your Own  
 1:00 pm Materials in Appliance Design  
*Instructor Wayne Morris - This session will review basic materials, burn characteristics, and flammability characteristics of materials used in the manufacture of common appliances.*  
 2:45 pm Design, Construction, and Maintenance of Appliances  
*Instructor Scott Barnhill - This session will look at the internal design of several key household appliances, the interaction of components, physical structure, construction and maintenance.*

### Friday November 17

8:00 am Wiring, Extension Cords, Receptacles and Gas Connections  
*Instructor Wayne Morris - This session will focus on the role of electrical and gas source delivery to appliances through wiring or gas connections.*  
 9:30 am Forensic Examination in Fire Investigation  
*Instructor Randall Bills - This session will focus on the role of forensic examination of fire scene evidence, common misconceptions and myths about fires involving appliances and electrical products, as well as the materials available after the fire and what they might mean.*  
 11:30 am Lunch - On Your Own  
 12:30 pm Analysis of Electronic Devices in Area of Origin-Result or Cause?  
*Instructors Donald Hoffman & Elizabeth Buc - This session will focus on the examination and analysis of consumer electronic devices, appliances, and their components (line cords, fuses, transformers, circuit boards, batteries) at the fire scene. This will include arc mapping, fire dynamics, evaluation of electrical circuits and protective devices. Case studies involving electronic devices and appliances will be used in conjunction with full and bench scale burn tests of energized appliances.*  
 4:45 pm Examination

## Registration Form-Mesa

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

IAAI/AHAM Membership No.: \_\_\_\_\_

Method of Payment: \_\_\_\_\_

Purchase Order No.  Check Enclosed

Charge My:  Mastercard  VISA

American Express

Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Please forward Registration and Payment to:  
**International Association of Arson Investigators**  
 12770 Boenker Road  
 Bridgeton, Missouri 63044-2436  
 Phone (314) 739-4224 Fax (314) 739-4219  
[www.firearson.com](http://www.firearson.com)

The IAAI reserves the right to cancel any seminar it deems necessary and will, in such an event, make a full refund of any registration fees. No liability is assumed by the IAAI for changes in program, date, content, speakers or venue.