

Application:

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

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

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Chapter Member: Yes  No



Investigation of Sprinkler Systems and Commercial Hood Systems  
April 3, 2026



Maine Chapter IAAI  
P.O. Box 1101  
Auburn, ME 04211-1101

# INVESTIGATION OF SPRINKLER SYSTEMS AND COMMERCIAL HOOD SYSTEMS

**April 3, 2026**

**Chamberlain Room**

**Maine Public Safety Building  
Commerce Drive  
Augusta, ME**

**Presented by**

***Maine Chapter of the  
International Association of  
Arson Investigators***



**P.O. Box 1101 Auburn, ME 04211-1101**

**[WWW.MAINEIAAI.COM](http://WWW.MAINEIAAI.COM)**

**Speaker:**

**Andrew D. Ellison, P.E., IAAI-CFI - GAI Engineers**

Andrew Ellison is a licensed Professional Engineer in Maine and the other New England states as well as a Certified Fire Investigator. Mr. Ellison has a B.S in Mechanical Engineering and a M.S. in Fire Protection Engineering from Worcester Polytechnic Institute in Worcester, MA. Mr. Ellison's professional engineering focus is on forensic failure analysis, with specialized experience in fire protection and mechanical engineering. As a forensic engineer, Mr. Ellison provides engineering support to fire investigators to assist in determining fire cause and fire spread using science and engineering. With nearly 20 years of experience in failure analysis, Mr. Ellison has evaluated thousands of fire and explosion-related failures. Mr. Ellison's primary clients include insurance companies and attorneys litigating property damages related to engineering failures. Mr. Ellison is also a Captain on the Hamilton, MA Fire Department with over 25 years of fire service experience.



**45 Commerce Dr, Augusta, ME**

**Program:**

**Fire Sprinkler Systems & Commercial Kitchen Hood Systems**

This seminar will discuss the fundamental design, operation, components, operational goals and failure modes of the various types of fire sprinkler & commercial kitchen systems. Common code-related issues found post-fire event for such systems will be discussed such as those outlined in *NFPA 13: Standard for the Installation of Sprinkler Systems* (and related standards), *NFPA 25: Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, *NFPA 96: Standard of the Ventilation Control and Fire Protection of Commercial Cooking Operations*, *NFPA 17A: Standard for Wet Chemical Extinguishing Systems*, among others. Focus will be on failure modes which impact the ability of the systems to control or extinguish a fire, although failure modes related to inadvertent activations and discharge-related losses will be highlighted as well. Examples of system failure modes and effects will be presented. A discussion regarding the maintenance requirements, and the pit-falls of inadequate maintenance on these systems (a common root-cause of system failures) will be (con. → )

**Timeline:**

Registration	08:30
Class Begins	09:00
Lunch (provided)	12:00
Class Resumes	12:45
CFI Test (optional)	15:30

facilitated. Indicators of abnormal operation of such systems will be highlighted to aid the investigator in identifying potential system failures early in the investigation so that they can request the appropriate resources. Sources of information for the investigator both on- and off-site will be reviewed as well as common procedures for accessing such information. Investigation techniques and evidence preservation tasks will be discussed to aid the fire investigator in identifying circumstances requiring engineering assistance and ensuring the scene remains intact to support a thorough engineering evaluation to determine the root cause of the system failure.

**Cost:**

\$30.00 for Maine Chapter Members.

\$40.00 for Non-Maine Chapter Members.

**Cancellations** must be received 15 business days prior to the start date of the training.

Cancellations received less than 7 business days prior to the start date are not entitled to a refund.

Make all checks payable to:

**Maine Chapter I.A.A.I.**

Purchase Orders must accompany registration application.

**Mail application to:**

Maine Chapter IAAI  
P.O. Box 1101  
Auburn, ME 04211-1101

**Message from the Maine Chapter IAAI**

The Maine Chapter of the International Association of Arson Investigators was formed in 1992 to further the education and training of fire and arson investigators throughout the State of Maine. The primary goal of the organization is to provide excellent training opportunities for as low a cost as possible to its members. The Directors of the Chapter would like your input as to future training programs you would like to see or any suggested instructors for our programs. Please contact any Director with your needs or suggestions. **Thank You**