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Part I: General Information

A. Educational Data:

August 1976 Master of Science Vocational and Technical Education
Murray State University
Murray, Kentucky

May 1973
Bachelor of Science Industrial Education
Minor Secondary Education
Murray State University
Murray, Kentucky

Additional course work:

Completed 28 credit hours of Fire Science courses
Paducah Community College
Paducah, KY
and
Eastern Kentucky University
Richmond, Kentucky

B. Professional Experience:

August 1976 to Present

Associate Professor and Associate Graduate Faculty
Fire and Safety Engineering Technology Program
Eastern Kentucky University
Richmond, Kentucky 40475

1. Instructional Responsibilities

Currently teach courses at both the undergraduate and graduate levels, in Fire, Arson and Explosion Investigation, Hazardous Materials, Fire Chemistry and Dynamics, Fire Protection Hydraulics and Water Systems, Practicum/Independent Study (Senior Research) at the Undergraduate Level and presently offering the four Fire Administration Graduate courses as pilot programs. The four graduate classes will be proposed to the Graduate Council during the 2005-2006 academic year.

Other instructional responsibilities have included:

- Introduction to Codes and Standards
- Designing Building Firesafety
- Fire and Emergency Scene Operations
- Fixed Fire Protection Systems
- Fire Service Management and Administration
- Fire Protection Hydraulics and Water Systems
- Instructional Techniques
- Industrial Safety

2. Occupational Safety and Health Administration (OSHA) Training Institute; Eastern Kentucky University Educational Center

Course Chair for the following courses:

- Construction Industry General Standards Course including the
- Construction Industry Train-the-Trainer Course
- Disaster Site Worker Course
- Disaster Site Worker Train-the-Trainer Course
- Hazardous Materials Course
- Permit Required Confined Space Course
- Scaffolding Program
- Fall Protection Program.

Additionally, provide instruction in the General Industry Courses in the areas of Egress, Fire Protection, Industrial Emergency Response, Emergency Action Plans and Instructional Tips.

3. Administrative Responsibilities

Project Manager for the design and construction of the Ashland Oil Fire Protection and Safety Laboratory. Responsibilities included meeting with the Architectural and Engineering firms during the planning phase to design the structure and continued working with them during the construction phase of the laboratory. Many of the specialized features of the building, Fire Protection Systems Laboratory, Fire Extinguisher Service Facility, High Bay Multi Purpose Room and classroom were constructed according to my original designs.

Fire Extinguisher Laboratory Supervisor, supervise the operations of the Laboratory. Inspect and Service 1700 fire extinguishers on campus from the initial proposal for establishment in 1978 to August 2003.

Program Coordinator (August 1989 to January 1993). Responsibilities included day to day management of the Fire and Safety Engineering Technology Program including scheduling of classes, curriculum and program enhancement, fund raising, and grant management.

4. Cooperative Education Coordinator

During my tenure as Cooperative Education Coordinator I was responsible for programs in the Fire and Safety Engineering Technology Program and the College of Law Enforcement. During this time I established cooperative education activities with the City of Richmond Fire Department, Madison County Fire Department, Berea Fire Department, and a variety of industries.

March 1987 to Present

Abney & Hopkins Fire Protection and Safety Consultants, Ltd.
d.b.a.
TRACE Fire Protection and Safety Consultants, Ltd.
Richmond, Kentucky

A professional consulting firm to industry and the emergency services. Consulting services include; Industrial Emergency Response to hazardous materials emergencies, confined space entry and rescue emergencies, incipient and interior structural fire brigades, first aid and CPR. We also provide emergency response management including needs assessment, planning, training program development, emergency scene operations, and management.

Consultant in the area of safety management, providing instruction for "Managing Employee Safety and Health" a supervisors safety training and management program.

Curriculum development for specialized safety and emergency response programs including: Confined Space Entry and Rescue, Incipient Fire Brigade, Self-Contained Breathing Apparatus, Large Area Search and Rescue, Accident Investigation, Inspecting for Hazardous Conditions, Improving Employee Safety Performance and Communication, Instructional Techniques, Hazard Recognition and Control, Curriculum and Training Materials Development, and a variety of others.

Consultant and expert witness in the area of fire and explosion origin and cause investigation, accident cause investigation, to consulting firms, law firms, insurance, and industry. Investigations have included residential and commercial occupancies

August 1976 to March 1987

Fire Protection Consultant
Richmond, Kentucky

An independent consultant to industry and the emergency services. Consultant in areas of fire protection and fire brigade training, Self-Contained Breathing Apparatus, Hazard Recognition and Control, Hazardous Materials Response, Confined Space Entry and Rescue, Safety and Safety Management, Fire Cause Determination.

Fire Service Experience:

January 1994 to 1997

Adjunct Instructor
Kentucky Fire and Rescue Training
Kentucky Tech North Central Region

Responsibilities include providing instruction to fire and rescue services in this Kentucky Tech Region. I have taught courses in Chemistry and Dynamics of fire and Ventilation Practices.

August 1976 to present

Paid-on-Call Fire Fighter
Richmond Fire Department
Richmond, Kentucky

Responsibilities have included providing fire suppression activities and support services for the career fire fighters. Specialized responsibilities have included providing Officer training to meet NFPA 1021, fire fighter training to meet NFPA-1001, and fire and arson investigation.

August 1970 to September 1976

Murray Fire Department
Murray. Kentucky

Career fire fighter September 1973 to September 1976, Senior Truckman, Ladder Company. August 1970 to September 1973, paid-on-call fire fighter.

February 1966 to August 1970

Old Village Fire Company
Middletown Township Fire Department
Middletown, New Jersey

Volunteer fire fighter.

Fire Service Certifications:

1. Certified Fire and Explosion Investigator, National Association of Fire Investigators.
2. Certified Fire Investigation Instructor, National Association of Fire Investigators.
3. Certified Vehicle Fire Investigator, National Association of Fire Investigators.
4. Certified Fire Protection Specialist, Fire Protection Certification Board, NFPA
5. Certified Fire Fighter, Commonwealth of Kentucky; Career and Volunteer.
6. Certified Fire Service Instructor, Commonwealth of Kentucky.
7. Certified Fire Instructor, Level I and II; National Professional Qualifications Board.
8. Certified Law Enforcement Instructor, Commonwealth of Kentucky (Was certified to teach Arson Investigations, Explosives, Hazardous Materials, First Aid and CPR).
9. Self-Contained Breathing Apparatus Repair, Mine Safety Appliances.

Fire Service and Professional Organizations:

1. International Society of Fire Service Instructors
   Past Chairman of the Board of Directors
   Immediate Past Chairman of the Board of Directors, ISFSI Board of Directors, April 1997 to April 1999
   Chairman of the Board of Directors, February 1995 to April, 1997
   First Vice Chairman, March 1993 to February 1995
   Second Vice Chairman, March 1989 to March 1993
   Chairman of the College Instructors Section
   Member of the Board of Directors March 1982 to 1999
   Past member of the Training and Education Committee
   Member of several task forces on fire fighter safety, fire service accreditation and certification, instructional skills and competency, hazardous materials, and others.

2. National Association of Fire Investigators
   Member of the Board of Directors, 1984 to present
   Chair of the National Certification Board, 1992 to present
   Member of the National Certification Board, 1989 to present
   Member of the Fire, Arson and Explosion Investigation Safety Committee, 1989 to present
   Member of the Training and Education Committee, 1984 to present
   Member of several task force committees to review and update certification examination, course curriculum, and the development of the Certified Fire Investigation Instructor program.

3. National Fire Protection Association
Director of the Educator and Technology Section May 1986 to May 1993.
Member of the Fire Service Section
Principle member of the NFPA Technical Committee on Professional Qualification s for Fire Service Instructor. NFPA-1041, 1991 to present
Principle member of the Technical Committee on Fire Investigations. NFPA-921, 1993 to present

5. International Association of Arson Investigators (1977 to present) and the Kentucky Chapter of IAAI

6. International Association of Fire Fighters
Past Local President, Murray Fire Department Local

7. Safety and Health Hall of Fame, International
Charter Secretary
Past member of the Board of Governors

8. Kentucky Safety and Health Network, Charter Member

9. Industrial Fire and Emergency Management Training Association

10. Hazardous Materials Response and Training Association

Part II: Scholarly work including Research, Publications Funded Projects and Teaching

This section is further divided into four main categories to provide a logical format for the identification and explanation of activities within the field of Fire Protection and Safety.

The **Scholarship of Discovery** encompasses those scholarly activities which extend the stock of human knowledge through the discovery or collection of new information. Such scholarship seeks to confront the unknown and typically exhibits a dedication to free inquiry, disciplined investigation, and the pursuit of knowledge for its own sake. The Scholarship of Discovery includes, but is not limited to, what is sometimes referred to as basic or original research.

The **Scholarship of Integration** encompasses scholarly activities which are primarily interdisciplinary or interpretive in nature. Such scholarship seeks to better understand existing knowledge by making connections across disciplines, illuminating data in a revealing manner, drawing together isolated factors, or placing known information into broader contexts. It synthesizes, interprets, and connects the findings in a way that brings new meaning to those facts. In this area the ideas and information gained from the Scholarship of Discovery are first used by the community that the research can impact.

The **Scholarship of Application** encompasses scholarly activities which seek to relate the knowledge in one's field to the affairs of society. Such scholarship moves toward engagement with the community beyond academia in a variety of ways, such as by using social problems as the agenda for scholarly investigation, drawing upon existing knowledge for the purpose of crafting solutions to social problems, or making information or ideas accessible to the public. The original research and integrated materials are now included within the disciplines normal function.

4. The **Scholarship of Teaching** encompasses scholarly activities which are directly related to pedagogical practices. Such scholarship seeks to improve the teaching and advising of students through discovery, evaluation, and transmission of information about the learning process. The final part of the original research, integration and application, now those participating in the learning process can draw upon the entire body of knowledge in a problem solving manner.

The above discussions concerning Scholarship are from **“Scholarship Reconsidered: Priorities of the Professoriate”** written by Ernest L. Boyer Re-released October 1997, Carnegie Foundation for the Advancement for Teaching.

A. Scholarship of Discovery

1. Fire Development and Extinguishment in a Micro Gravity (1994 – 1997)

A NASA KYEPSCor funded project that was completed as a joint project with the University of Kentucky, Mechanical Engineering Program. There were two principle researchers involved in this specific project, Dr. Kozo Saito and Mr. Ronald Hopkins. In addition, both of the principle researchers supervised research activities of two graduate assistants, one from the Mechanical Engineering Program (UK) and one from the Fire and Safety Engineering Technology Program (EKU).

The three year research project was funded to evaluate fire development in a compartment and then to apply that research towards the development and extinguishment of compartment fires in a micro gravity. The second part of the project was to be completed as a part of a continuing research project. The continuing project included the opportunity to have the prototype experiment included as part of a drop test. Depending on the outcome, it could have been evaluated to inclusion high altitude test, and then final consideration for testing on the shuttle.

As a part of this grant project, prototype ¼ scale models were developed and used to evaluate fire growth in a compartment. Also, developed the protocols and instrumentation (within budgetary limitations) that would provide accurate data of the conditions within the compartment during the fire. A comparison of the documented compartment conditions was compared to the data developed through the use of contemporary computer fire models. Additional limited prototype full-scale room compartments were developed and utilized to assist in the correlation of the data.

Upon completion of the three (3) year project, a technical paper was presented to and published in the proceedings of the International Fire Modeling conference, sponsored by the University of Kentucky College of Engineering. Additional copies of the research project have been provided to a variety of professional organizations and to the National Institute of Standards and Technology, Building Fire Research Lab (NIST BFRL).

Additional evaluation and comparison of room fire development was completed as a result of other projects, that were not a part of the original research. Work was completed in cooperation with a NIST BFRL funded project that studied both the development of fire in a compartment and the formation of fire related patterns that are used by the fire investigation community to conduct post incident analysis. The data included in the published report is only from the tests conducted as a part of this project. Key, to the continuation of a scale model analysis is to determine if the data collected in the scale model tests can be correlated to the data in full scale tests.

While the original intent was micro gravity oriented, the project provided opportunities to design and construct testing facilities and concepts that could immediately be applied to current instructional areas and use by the fire investigation community. It also provided opportunities for interaction with Federal agencies with a fire focus and to provide an opportunity for national fire organizations to observe and review the research that was being conducted by the Fire and Safety Engineering Technology Program.

2. Statewide Hazardous Materials Emergency Response Capabilities Project (1994-1995)

Funded project by the Kentucky Emergency Response Commission through the Kentucky Disaster and Emergency Services (Kentucky Emergency Management) to determine the capabilities of the emergency responders in Kentucky to respond to hazardous materials emergencies.

Completion of this project required the development of a comprehensive and agency/position specific survey form that would adequately determine the response capabilities, training, equipment, knowledge of the legal requirements, and the amount of inter-agency cooperation. Included in the survey were the following governmental and non-governmental agencies, County Judge Executive, Mayor/City Manager, Fire Department, Police Department, Emergency Medical Services, and Hospitals. Every county within the Commonwealth of Kentucky was included in the survey.

Upon completion of the survey and data analysis, a complete report was provided to KYDES. This report indicated the community based response capabilities, the types and quantities of response, identification of Personal Protective Equipment and response equipment available, and the type and effectiveness of the training available. Additional information included basic recommendations on the improvement of training and response capabilities.

B. Scholarship of Integration

1. Guide for Fire and Explosion Investigation

The National Fire Protection Association (NFPA) is a fire protection membership organization of over 66,000 members. Primary to the mission of NFPA is the research and development of technical standards for use to improve the overall quality of life by the reduction of losses as a result of fire and similar emergencies.

Towards the organizations stated goal, in 1987 The Technical Committee on Fire Investigations was formed and provided the following scope and purpose.

Scope. This document is designed to assist individuals who are charged with the responsibility of investigating and analyzing fire and explosion incidents and rendering opinions as to the origin, cause, responsibility, or prevention of such incidents.

Purpose. The purpose of this document is to establish guidelines and recommendations for the safe and systematic investigation or analysis of fire and explosion incidents. Fire investigation or analysis and the accurate listing of causes is fundamental to the protection of lives and property from the threat of hostile fire or explosions. It is through an efficient and accurate determination of the cause and responsibility that future fire incidents can be avoided.

Proper fire origin and cause determination are also essential for the meaningful compilation of fire statistics. Accurate statistics form part of the basis of fire prevention codes, standards, and training.

This document is designed to produce a systematic, working framework or outline by which effective fire investigation and origin and cause analysis can be accomplished. It contains specific procedures to assist in the investigation of fires and explosions. These procedures represent the consensus judgment of the committee on a system that, if followed, can be expected to lead to sound conclusions with supporting evidence. Deviations from these procedures, however, are not necessarily wrong or inferior but need to be justified.

The first document was released in 1992 and subsequent editions in 1995, 1998, 2001, 2004. We are currently in revision cycle for the development of the 2008 edition. Each of the subsequent documents from the first, added additional sections and often as a result of the peer review and input process were required to support sections of the document by reviewing new research and technology.

NFPA-921, Guide on Fire and Explosion Investigations represents an extensive research and development project of the committee. Research included and continues to include comprehensive literature searches and reviews with the initial emphasis on historical documents and current reviews; analysis of scientific research in material science, fire protection, building code issues, fire science, fire dynamics, fire patterns and a variety of other areas depending on the particular section.

As a result of the impact of this document and the research and development that went into the preparation and publication, the Guide for Fire and Explosion Investigations has become one of the most widely used documents that the NFPA has available. (The NFPA produces over 250 publications in the standards making system.) This document is used internationally and has been translated into Spanish, French and Hebrew and is considered the standard of care for fire investigation in the US, Canada, England, and many other countries. It is also used nationally by the National Fire Academy as a baseline document for fire investigation related course development and presentation, the Department of Alcohol, Tobacco, and Firearms and the Federal Bureau of Investigation Academy as a baseline text for fire investigation related courses, within each of the states in the development and presentation of fire investigation related instruction, and used by universities and community colleges as a required text for fire investigation courses. In addition, many of the US courts recognize the Guide for Fire and Explosion Investigation as the standard of care that is used to measure and evaluate the fire investigative methodology and knowledge of fire investigators.

Research and analysis completed as a participant in this technical committee and related research have enabled the development and publication of instructional guides and instructional components.

a. Published fire investigation documents (not including the NFPA Guide to Fire and Explosion Investigation):

Fire Investigation – The First Responding Company's Role; ISFSI Instruct-O-Gram, June 1996.

Fire Investigation – The First Responding Company's Role, Part 2: Care and Handling of the Scene; ISFSI Instruct-O-Gram, July, 1996.

Fire Investigation – The First Responding Company's Role, Part 3: Evidence; ISFSI Instruct-O-Gram, August, 1996.

Fire Investigation – The First Responding Company's Role, Part 4: Documenting the Fire Scene; ISFSI Instruct-O-Gram, September, 1996.

Fire Investigation – The First Responding Company's Role, Part 5: Interpreting the Fire Scene; ISFSI Instruct-O-Gram, October, 1996.

Fire Investigation – The First Responding Company's Role, Part 6: Determining the Origin and Cause; ISFSI Instruct-O-Gram, December, 1996.

Fire Investigation – The First Responding Company's Role, Part 7: Written Evaluation; ISFSI Instruct-O-Gram, March, 1997.

The Fire Investigation Instruct-O-Grams (IOG's) were developed to improve the Company Officer and Fire Department Training Officer's ability to provide instruction to members of the fire department on basic fire investigation. The Fire Investigation related IOG's were developed and distributed as a part of the International Society of Fire Service Instructors (ISFSI) and the Alliance for Fire and Emergency Management's commitment to the President's Arson Prevention Initiative. These documents were provided to the Clearinghouse for Arson Prevention Resources, Federal Emergency Management Agency. The Clearinghouse for Arson Prevention Resources provides information, guidance, and technical assistance in arson prevention to the nations fire service and law enforcement agencies. As a result this information was available to the fire and emergency services free of charge by contacting the Clearinghouse. In addition, the original printing (5000 copies) were distributed by ISFSI during major fire related conferences free of charge from the ISFSI exhibit booth and by the clearing house upon request.

b. Development of Fire Investigation related Instructional Materials
The following instructional programs were developed as a result of the original research that was a part of the NASA EPSCor grant program and research that is ongoing as a member of the NFPA Technical Committee on Fire Investigations.

Each of the instructional modules developed are based on NFPA 921 Guide to Fire and Explosion Investigation and expand the principles contained into a complete instructional program that can be used as initial and ongoing training and education for fire investigators and others that intend to work within the fire and explosion investigation field. At the time of development and currently there were no instructional materials available that addressed the requirements and information contained in NFPA 921.

Each of the instructional packages developed include an instructors lesson plan, instructional aids, and comprehensive participants guide that provides the participant with extensive documentation that enhances the principles contained in NFPA 921.

(1.) Dynamics of Fire Investigation

A review of the impact of fire investigation to the reduction of life and property loss as a result of fire. Analysis of the impact of NFPA 921 to the fire and legal community including a review of essential legal concepts and terminology and the importance of the scientific method to the validity of the fire investigation.

(2.) Chemistry of Fire

A basic review of Chemistry and Physical properties of materials as they are affected by the combustion process. Each of the terms are defined and explained in a manner that is useful in testimony and the explanation of the chemical process of combustion.

> (a.) Chemistry of Fire – The Starting Point; ISFSI Instruct-O-Gram, November, 1997. This publication, in the form of a lesson plan, was a result of the research completed within this section and provided to all ISFSI members with the November edition of the Voice Magazine.

(3.) Vehicle Fire Investigation Chemistry and Dynamics

A review of the chemical and physical properties of those fuels that are common to vehicles and there affect on fire development and spread. Each of the terms and concepts are defined and explained in a manner that is useful in testimony and the explanation of the chemical processes of combustion.

(4.) Fire Dynamics

A study of the development of fire in a compartment. Based on original research and other contemporary research projects completed on fire development and spread, influence of building contents, building codes, fixed fire protection systems, and fire suppression activities on the fire growth. This instructional module ties the scientific research to the conditions that will be found during the fire incident and the anticipated conditions that can be found after the incident.

(5.) Fire Pattern Analysis

A study of the development of fire patterns on interior and exterior surfaces. Based on original research and other contemporary research projects completed on the development of fire patterns. This module describes the processes involved in the development of fire patterns, the impact of differing fuels and ventilation, and the effect of differing materials used as interior and exterior finishes as well as other finishes within the building. Then the analysis of the fire patterns to assist in determining the origin and cause of the fire.

(a.) ***"Depth of Calcination Measurement In Fire Origin Analysis"*** a research project into the practical use of measurements of depth of calcination of room-fire exposed gypsum wallboard, under actual fire scene investigation conditions, presented at the International Fire and Materials Conference, January 2003. Coauthor

(6.) Documenting the Fire and Explosion Scene

Techniques for documenting the fire and explosion scene through proper note taking, photography, and diagrams. Within the requirements of NFPA 921, this instructional module includes interview techniques and the documentation of the interview as well as the scene through proper field investigation notes. Also included is a guide to the basic information to be obtained at a fire or explosion incident. Incident scene photography including basics of photography and the proper techniques to adequately document a fire or explosion scene. The last part of this model describes a variety of techniques to diagram a fire or explosion scene, evidence, and other aspects of the investigation that will be essential during courtroom presentation. Basics of technical drawing as well as presentation techniques are included.

(7.) Explosion Investigation and Analysis

Techniques for investigating diffuse fuel related explosion incidents. Included in this particular module; Introduction to Explosion Dynamics, Analysis of the Explosion Scene to determine the type of explosion, scene preservation and documentation, explosion scene vector analysis, and the determination of cause.

(8.) Evidence Collection and Preservation

The proper techniques for the collection and preservation of evidence from the incident scene identified and prior to collection. Also, appropriate techniques for the preservation of essential evidence during and after collection. The implication of appropriate national standards and guidelines and the current rules of evidence as provided by the court system.

(9.) Building Construction and Building Codes for Fire Investigation

A study into the effects of building construction and code requirements to the spread of the fire within the structure to enable the investigator to determine if the construction contributed or restricted the spread of fire. Emphasis on the types of construction, requirements for fire resistance ratings, the effects and requirements of the specific occupancy classification and a review of the resources essential to evaluate construction and code related issues.

(10.) Safety Regulations and the Fire Investigation Process

An analysis of Occupational Safety and Health Administration (OSHA), Fire Department Occupational Safety and Health requirements, and the safety and health requirements contained in NFPA 921. This module places emphasis on the safety and health of the fire, arson, and explosion investigator while at the scene of the incident. Included in this module are tools for hazard and risk assessment as well as techniques to mitigate the hazard or prevent exposure to occupational illnesses and accidents.

(11.) Fire and Explosion Scene Preservation and Management

Techniques for the fire and explosion investigator to preserve the fire and explosion scene prior to and during the investigation. A review of the current incident command models and the adaptation of those models for use during fire, arson, and explosion investigations.

(12.) Electrical Fire Cause Analysis

An overview of basic electrical principles including basic electricity (AC and DC), distribution systems, residential and light commercial electrical systems, and system protection. The program also includes aspects of system evaluation, electricity as a fire cause, and system failure analysis.

(13.) Fire Cause Determination; Evaluation of Ignition Factors and Incendiary Fire Analysis

Techniques for Fire Investigators to use to properly determine the cause of a fire or explosion incident and to properly evaluate that cause according to the contemporary procedures. The program also includes a component on Incendiary Fire Analysis.

(14.) Vehicle Fire Incendiary Analysis

Indicators and Investigative techniques for vehicle fire incidents where the cause is believed to be Incendiary. A key portion of this program is to inform investigators that there are very few indicators that a fire was intentional started and that they should rely on sound investigative techniques and scene documentation.

(15.) Management of Major Investigations

An analysis of the management functions and roles required on major fire and explosion scenes to successfully manage and control the incident scene. Emphasis is placed on the role of the investigative function within the overall management of an emergency scene. Materials developed and presented include models for the public and private sectors.

(a.) *"An Analysis Of Issues And Solutions For The Management Of Fire Investigations At Major Incidents"*

A research project that completed an analysis of the management functions and described methodologies

The efficient management of the investigation of a major incident is a critical aspect of meeting the overall goal of the investigation. By properly managing the investigative functions required to complete an investigation as well as meeting the needs of individual entities that have an interest in the incident the overall goal of the investigation will be met.

The paper endeavored to provide sample models for both the public and private sectors utilize in managing investigations at major incidents. The models provided, do not take into consideration all of the personnel required to fulfill each of the functions identified but rather attempt to identify those functions in an orderly manner.

Paper and Poster published at the Interflam 2004 Tenth International Fire Science and Engineering Conference at Heriot-Watts University, Edinburgh, Scotland, July 2004.

(16.) Computer Fire Modeling

An introduction to the use and application of contemporary computer fire models to the fire investigation field. Contemporary fire models are used by the design community to develop and evaluate capabilities of fixed fire protection systems, fire spread, and escape. The fire investigation community use the field and zone models to verify conditions at the scene, witness statements, and to analyze conditions that may have contributed to the loss of life or spread of the fire.

2. Bombing Crime Scene Investigation

A project to develop course materials to teach Post Blast Investigation to fire and law enforcement officials funded by the US Department of Justice. The project which was funded for two years delivered 17 – 1 week courses during the summer months.

The Bombing Crime Scene Investigation program was a 40 hour intensive course that covered a wide variety of topics that would assist the Fire, Arson, and Explosion Investigator and Crime Scene Technician in dealing with scene management and investigation.

The 40 hour course include the following topics:

- Explosives Theory
- Commercial and Military Explosives Recognition
- Improvised Explosive Device Fuzing Systems
- Weapons of Mass Destruction
- Bombing Crime Scene Preservation
  Scene Documentation
  Evidence Collection
- Bomb Threat Management and Search Procedures
- 2 Days of Hands-on Bombing Crime Scene Investigation

The course was open to all career Fire Service and Law Enforcement personnel that may be required to respond to a Bombing Crime Scene after an explosion. This course will provide the Fire, Arson, and Explosion Investigator, Crime Scene Technician or other emergency response personnel required to conduct a preliminary investigation with essential skills and knowledge to manage and process a post blast scene until additional technical assistance arrives. In addition, this course will prepare the attendee to provide crime scene management and support as generally required by federal agencies in the event that they respond to a major incident.

Course participants included:

career fire service
local and state law enforcement agencies
local and sate fire marshals
local, state and federal emergency management
US Department of State
Bureau of Alcohol, Tobacco and Firearms
Federal Bureau of Investigation
US Postal Service
US Secret Service

Primary curriculum development specialist overseeing and participating in the research and development of the educational program and one of the primary instructors. .

3. Hazardous Materials Incident Management Research

a. Hazardous Materials Technician Program, Upgrade (1995 – 1996)

This one year funded project was as a result of the completion of the Statewide Hazardous Materials Response Survey project. The purpose of the project was to revise and upgrade the existing curriculum used statewide and enhance the educational value and to ensure that the curriculum met the Occupational Safety and Health Administration (OSHA) requirements that are a part of 29CFR1910.120.

Completion of this project provided the Kentucky Disaster and Emergency Services with a current Technician Level Instructional Package (Slides, Instructor Guides, and Participant Manuals) ready for duplication.

b. Hazardous Materials Operations Program, Upgrade (1996 – 1997)

This, one year funded project was as a result of the completion of the Statewide Hazardous Materials Response Survey project. The purpose of the project was to revise and upgrade the existing curriculum used statewide and enhance the educational value and to ensure that the curriculum met the Occupational Safety and Health Administration (OSHA) requirements that are a part of 29CFR1910.120.

Completion of this project provided the Kentucky Disaster and Emergency Services with a current Operations Level Instructional Package (Slides, Instructor Guides, and Participant Manuals) ready for duplication.

c. Hazardous Materials Spill, Leak Simulation and Decontamination Equipment

Designed and constructed a number of low cost instructional aids to assist in teaching hazardous materials leak and spill control techniques. The design allows the teaching of those skills in a controlled environment. Each of the instructional aids can be assembled and used in the Ashland, Inc. Fire and Safety Laboratory, High Bay classroom or any other similar location. With the specialized instructional aids, the students have the opportunity to participate in a simulated hazardous materials response from start (donning of PPE) to finish (Decontamination and packaging of hazardous waste).

4. Confined Space Entry and Rescue Training Programs

Prior to the release of 29CFR1910.146 there were no education or training materials available to comply with the requirements. At the time of release, there were still very limited education and training materials even though there was a legal requirement to complete appropriate education and training.

Developed and produced a comprehensive education and training package that includes instructor lesson plans, instructional aids, and participant guides that enable the generic program to be obtained and customized to meet site specific needs of an industry. Each of the components meet or exceed the legal requirements of 29CFR1910.146 and include explanations, examples, and techniques for legal compliance. The materials provided were also suitable for continuing education and evaluation.

a. Confined Space Rescue Training Props

The design and construction of a number of training props that have been used by industry and the fire service to assist in completing the education and training requirements contained in the OSHA standard.

The Confined Space Training Prop has been utilized by a number of industries, used during EKU Rescue School, Kentucky State Fire School and other state sponsored regional fire schools, Fire Department Instructors Conference (FDIC) Training Clinic, Ashland, Inc. Fire and Safety Laboratory building dedication, as well as by the students to develop and enhance rescue skills.

As a result of field use and exposure, this prop has been duplicated by a number of industries and fire departments. I have also provided sketches and diagrams of construction features to those that have requested them.

4. Fire and Emergency Educator Programs

Developed and produced a number of educational programs to assist the "instructor" in the fire and emergency services field in becoming proficient as an educator. The programs, which included comprehensive instructor materials including job task analysis, lesson plans, resource guides, instructional aids, participant materials, and evaluation instruments that would meet the requirements under the OSHA standards and also the standards established by several professional organizations for certification.

These projects required the analysis of those principles of educational methodology, educational psychology, curriculum design and layout, and instructional aid design and development and adapt those components to the needs of the fire and emergency services community.

a. Educator Series Certification Program, Emergency Management Accreditation and Certification System

Designed and developed the instructional materials and certification program for the Emergency Management Accreditation and Certification System (EMACS). The certification system, used by industry as a minimum criteria for staff or contract instructors is divided into three (3) specific levels; Demonstrator, Trainer, and Educator. The intent of each of the levels within the certification system is to only require education and training within the specific levels of responsibility.

The instructional materials developed and used to prepare a candidate for evaluation and certification at one of the three levels include job performance requirements for the candidate, comprehensive participate course materials, instructor lesson plans and resources, and instructional aids.

The certification examination included the development of an examination question bank and skill evaluation that would effectively evaluate the instructional capabilities and knowledge of the methods of instruction.

The Emergency Management and Accreditation System is a program operated by the International Society of Fire Service Instructors (ISFSI) and is designed to provide certification to individuals that provide education and training in industry and the fire and emergency services. In addition, the accreditation system is intended to provide an opportunity for training divisions and consultants a methodology for third party evaluation.

b. Certified Fire Investigator Instructor Certification Program, National Association of Fire Investigators

Designed and developed the Certified Fire Investigator Instructor program for the National Association of Fire Investigators. Currently this certification program has approximately 800 certified instructors and continues to evaluate some 70 candidates per year for certification.

The instructional materials designed and developed focus on both the methods of instruction that are essential for effective learning to take place and the unique needs of the fire investigation community. Instruction, in the fire investigation community, is not only limited to the formal classroom setting, but in a variety of settings including the courtroom.

Course materials developed include comprehensive participant guides and resources, instructor lesson plans and resources, a variety of instructional aids and an evaluation instrument that is used for certification.

5. Industrial Emergency Response Educational Program

Developed and implemented a variety of educational programs to meet the Occupational Safety and Health Administration requirements. Materials developed included instructional programs that could be utilized in a general context (by all industries) and adapted for use by an industry specific situation.

a. Incipient Fire Brigade Training Program
Developed a complete set of instructional materials including participants guides, lesson plans, instructional aids visual and demonstrative, practical exercises, and evaluation criteria and instruments for both cognitive and psychomotor skills.

The materials developed also include aspects of incident management and safety at a level that is appropriate for the industrial emergency responder.

b. Hazardous Materials Emergency Response
Developed a complete set of instructional materials including participants guides, lesson plans, instructional aids visual and demonstrative, practical exercises, and evaluation criteria and instruments for both cognitive and psychomotor skills.

The course materials place special emphasis on the safety and incident management requirements during a hazardous materials emergency.

The two instructional packages included in this section meet and exceed the certification requirements established by the Emergency Management Accreditation and Certification System (EMACS). They were included with the Fire and Safety Engineering Technology Program's application for accreditation under this system.

6. International Instructor Exchange

a. Fire Service College, Moreton-in-Marsh and Essex County Fire and Rescue Services, England June 1997.

The original program was established by the International Society of Fire Service Instructors and included exchanges with Australia, Sweden and England. I was selected to represent the ISFSI in the second phase of the exchange that was with Divisional Officer Bob Fossett, Essex County Fire and Rescue Services.

b. Fire Service College, Moreton-in-Marsh, England July 2005.

The second program was established by the Fire and Safety Engineering Technology Program, Eastern Kentucky University and the Fire Service College. The exchange involved Divisional Officer Pat Cox, Fire Service College.

7. Technical Working Group for Fire and Explosives Examination (Scene)

A technical committee that is funded by the National Institute of Justice and facilitated by the Center for Forensic Science, University of Central Florida. The purpose of the technical working group is to develop training materials to enable scene investigators to meet the national guidelines on Fire, Arson, and Explosion Scenes Investigation.

The committee is currently completing a literature search and evaluation of current training materials; validating existing training materials; and developing or revising instructional materials to meet current guidelines and practices included in the recently developed scene guides.

8. Learn Not to Burn™, 2000 Teacher In-service Program

Designed and developed an instructional program that is used by a number of agencies within the Commonwealth of Kentucky, including the Kentucky Fire Marshal's Office to provide teacher in-service instruction in the Learn Not to Burn™ program.

This program, which includes comprehensive lesson plans, internet and print resources, instructional aids, and participant materials that address the fire prevention and safety needs within a context that is familiar and useable to school teachers. The program places emphasis on the importance of injury prevention education in the schools and how to utilize and implement the resources available to the classroom teacher.

The program, in its first edition was reviewed by National Fire Protection Association (NFPA) Instructors that teach the Learn Not to Burn™ training workshops. As a result, it was obtained by the Kentucky State Fire Marshal's Office and used in the workshops and training programs for Fire Safety Educators. The second edition, a completely electronic version and content revision available on CD is also being provided to the Fire Marshal's Office.

C. Scholarship of Application

1. University and College Committee Assignments

a. University Committees

(1.) Safety and Health Committee, Chair for over five years and a member since the mid 80's.

(2.) Fire Protection Systems, an Ad Hoc Committee: served as a member of an Ad Hoc Committee that was formed during the Spring 1999 semester to assess the installation of Fire Protection Systems in the residence halls. This committee met with and made recommendations to the President.

(3.) Faculty Senate: Served two terms since joining the faculty, the last three year term was from 1993 - 1996

(4.) EKU Judiciary Committee: Not a member of the board, but coordinate campus fire safety education programs for violators

Since 1996 oversee the completion of university public service requirements that have been assigned by the University Judicial Committee as a result of the students failure to comply with the fire safety policies established in the residence halls. Most of the students are assigned 2 hours of community service. The program that we developed addresses the importance of overall fire safety, as well as providing a meaningful and learning opportunity while completing the required service time.

b. College Committees

(1.) LEN Dean Search Committee, Spring 1998

(2.) LEN Computer Resources Committee, 1998 – 99 Academic Year

(3.) Dean's Ad Hoc Committee to Analyze Student Worker and Clerical Staffing

(4.) Program of Distinction: At the program and department level provided input to the College of Law Enforcement Program of Distinction grant application

1. Ashland, Inc. Fire and Safety Laboratory Building Committee

a. Planning of the Building and Related Facilities 1995 – 1996 Academic Year

Prior to the start of the planning process, the then Dean of the College of Law Enforcement, Truett Ricks assigned me the task of working with the Architects and Engineers that would be contracted to design and oversee the construction of the Ashland, Inc. Fire and Safety Laboratory.

During the initial design phase, I worked with the Fire and Safety Engineering Technology faculty on the facilities that they thought should be included in the design, specialized needs such as computer connections, specialized lighting or requirements, general space allocations and needs and other initial data that would assist the architect in the development of a suitable building design. In order to obtain the necessary data, I developed a survey form that was distributed to all of the Fire and Safety Engineering Technology Faculty, worked with individual faculty in completing the survey form as needed, and then completed a summary of the survey's for presentation to the design team.

During the initial design phase, I provided the design team with information concerning the priorities for the design and construction of the facility, including the need to have the building provided with a complete fire sprinkler and fire alarm systems that were in excess of the current building code requirements. The inclusion of state of the art fire protection systems and design were, in my opinion, essential to compliment the instruction that would be completed in this facility.

Developed and provided the design team with a floor plan and room layout for the Fire Extinguisher Service Laboratory. The design and layout included room layout, equipment placement, identification of specialized needs including the design for the pit in the hydrostatic test area and the need specialized electrical connections or other utilities.

Lastly, during the initial design of the facility, it was my recommendation that each room within the facility be provided with adequate data, Video, and electric connections and resources for future connection to a network. While looking at that today, it would be common, but at the time of design and construction that was not a normal activity and the Ashland, Inc. Fire and Safety Laboratory was able to be connected to the university TV and Computer Network without any modification once the systems and updates were available.

b. Construction

During construction, my contact with the design team was limited to answering questions and providing additional information concerning the future use and function of the facility. I visited the facility often and documented progress with photographs. When the building was nearing completion, I identified that a key component in the Fire Protection Systems laboratory had been overlooked and not installed. Fortunately, the fire hydrant could still be installed and only required minimal modification.

c. Building Set Up and Move

Once approval was provided to allow occupancy of the building, I coordinated the move and set-up of the facility. A variety of tasks, including phone service, cable service, locating furniture for the classroom, moving offices and related tasks were completed with minimal disruption. Within a very short time, the classroom was functional, offices operational, and we had started installing the Fire Extinguisher Service Laboratory equipment.

It should be noted, that other than items installed as a part of the building construction there were no special facilities or equipment provided. Some of the equipment and related items that would become an operational part of the building were relocated from Stratton Building and installed. Additional items were constructed or assembled by the students under my design and supervision. The majority of the rest of the equipment was obtained from donation, loan, or in some situations purchased by EKU.

Fire Protection Systems laboratory equipment installation did not occur until the fall semester. I worked closely with the sprinkler contractor representatives and the students in order to complete the installation prior to the building dedication. Much of the laboratory design concepts for the laboratory as well as flow patterns were completed by myself, with component design completed by the sprinkler contractor and installation completed by the sprinkler contractor, students and with the assistance of other faculty.

d. Building Dedication

The Ashland, Inc. Fire and Safety Laboratory was dedicated some 10 months after it was first occupied. During the 10 month period a considerable amount of effort was expended in preparation, all of the work was completed in addition to time required for normal instruction, projects and research, fire extinguisher laboratory management and advising. Prior to the dedication, I worked closely with the Development and Public Information Office in organizing the students and events of the day. Even though I was not a platform speaker, much of the behind the scenes organization and operations were completed under my direct supervision.

e. Equipment and Instructional Resources

During the construction and prior to the dedication of the Ashland, Inc. Fire and Safety Laboratory, I worked closely with Mr. David Noland and others in obtaining equipment and instructional resources for the new facility. As previously stated, equipment and other items required to make the facility operational as an instructional laboratory were not included in the original construction. Much of the new equipment and instructional resources were obtained late in the construction and continued after the building was dedicated. The building, at this time has reached capacity, and there is literally no additional space remaining for equipment or instructional resources even though the need for this equipment still exists.

f. Building Supervisor

Since moving into the Ashland, Inc. Fire and Safety Laboratory I have had the responsibility of overseeing all activities within the facility and the use, maintenance, inspection, cleaning, inventory, completion of work orders, and securing the facility, to name but a few. While this has not been an official task, it has been by default as I am more familiar with the operation of the facility and equipment than others and also have been involved in all aspects of the building since it was planned.

3. Faculty Sponsor of Student Associations

a. Tau Kappa Epsilon Fraternity (TKE)
At the start of this last five year period, I was in my last semesters as Faculty Sponsor for the TKE Fraternity. I had served in this capacity since 1977 and provided assistance and guidance to the fraternity and members during that time. At this time, I continue to offer assistance and guidance to members of the Fraternity.

b. Association of Fire Science Technicians (AFST)
Until the start of the Fall 1999 Semester, I have been the Faculty Sponsor for the AFST and was instrumental in the formation of the student organization in 1978. As the founding sponsor, I assisted in drafting the organizational documents and represented the membership at all levels, including the Faculty Senate meeting that formally acted on the formation and registration of the student organization.

Some of the major accomplishments over the last five years include:

(1.) Homecoming Activities: Organization and continued operation of the largest student organization and alumni activity in the College of Law Enforcement. The AFST, with my direct involvement, has continued to develop our annual participation in EKU's Homecoming activities. Events planned and conducted include:

Student and alumni reception on Friday night.
Participation in the annual Homecoming parade.
Participation in the annual Colonel Country Fair.

(2.) AFST Membership: The AFST has become the largest of the student associations in the College of Law Enforcement. Membership increase has reflected the growth in the academic program, but as faculty sponsor I have directly worked with officers and members in the development of programs and activities that enhance the organization and encourage membership.

(3.) AFST Activities: The membership of AFST have participate in a wide variety of activities during the academic year. They are active in campus activities that are sponsored by Student Affairs and focused towards campus life. Assist with the office of Judicial Affairs in providing fire safety related educational programs for those that have violated fire related rules on campus.

In addition, the membership participate in a variety of fire and safety related off campus activities. They have been participants in the Lexington Fire Prevention Parade, Kings Island Fire Safety Week Program (A graduate and past member of the AFST is a part of the theme park safety and fire protection office.), Fire Safety Education programs for local schools and many other projects.

(4.) National Conferences and Programs: The AFST, as a result of my contacts and national activities, have been able to participate in a variety of national fire and safety conferences and programs.

Fire Department Instructors Conference (FDIC) the nations largest fire related conference. As volunteer participants, they work behind the scenes in the conference operations as well as participating in the educational programs. AFST's participation in the conference started in the early 80's and continues today. Annually, about 25 members are provided the opportunity to participate.

In addition to the normal participation, during the early 80's I was able to arrange for complimentary exhibit booth space during this conference. The Fire and Safety Engineering Technology Program continues to enjoy that complimentary exhibit space.

Fire Rescue International, the second largest of the fire related conferences and sponsored by the International Association of Fire Chiefs. As with FDIC, I was able to arrange working relationships with the officers, directors, and show management of this conference. As the location of this conference varies from year to year, we have between 10 – 30 students participate on an annual basis.

National Fire Protection Association, Annual Meeting which is held after the end of the spring semester and is the forth largest of the fire related in the US. In that this conference is conducted after the conclusion of the spring semester and the location varies from year to year, we have not organized a student contingent. However, on many occasions, when the conference was in a city that was easy for one of the AFST members to attend, I arranged complimentary registration and they assisted conference operations in a variety of methods in addition to participating in the educational programs.

National Association of Fire Investigators, the second largest international fire investigation professional organization. During the summer, NAFI, co-hosts an international fire investigation educational program as well as the annual membership meeting. Members of the AFST that were able to travel to the Chicago area or lived in that area were provided complimentary registration.

There are many other examples that could be identified that would relate to my direct sponsorship of the AFST and the participation of members of the AFST in conferences, meetings, and educational programs on a regional, national, and international basis. Knowledge of the activities, contacts within the organizations, and my belief that the educational process takes place both in and outside of the formal environment has caused me to find ways to include the students in as many of my professional and educational activities as possible.

4. Professional Organizations

a. International Society of Fire Service Instructors (1977 to Present)

The International Society of Fire Service Instructors is a professional membership organization that was founded to assist and represent those that provide instruction at any level to the fire and emergency services.

(1.) Board of Directors, Member (1982 – 1999)
As an active member of the Board of Directors participated in a number of planning and managing functions of the organization.

(2.) Chair of the Board Special Committee to develop written policies for the Board to implement and utilize in the operation of the organization. (October 1999 to 2000)

(3.) Immediate Past Chairman (1997 – 1999)

(4.) Chairman of the Board (1995 – 1997)
Chairman of the Board is the highest elected office for the organization. Conducting the operation of a professional organization including representing the organization at a variety of political and non-political functions, conducting the business of the organization, planning and coordinating meetings and similar activities. In addition, the Chairman was responsible for the development of a monthly column to be published in the official membership publication. The column, was to address current issues and related items of interest to the membership and the fire protection field in general.

Chairman's Column; Voice, International Society of Fire Service Instructors, February 1995 to December 1995.

Chairman's Column; Voice, International Society of Fire Service Instructors, January, 1996 to December, 1996.

Chairman's Column; Voice, International Society of Fire Service Instructors, January, 1997 to April 1997.

(5.) First Vice Chairman (1993 – 1995)

(6.) Second Vice Chairman (1989 – 1993)

(7.) Audit and Finance Committee
Chair, 1989 – 1993
Member 1987 – 1989

8.) Emergency Management Accreditation and Certification Systems (EMACS)
Chair January 1996 – December, 2003
The EMAC System was formed to provide certification opportunities for the emergency response community as well as accreditation procedures for those involved in the training and evaluating of the emergency response community.

(9.) Emergency Management Accreditation and Certification System, Accreditation and Certification Board 1991 – December, 2003
The Certification Board was responsible for overseeing the accreditation and certification procedures as well as the overall operation of the system.

(10.) Professional Qualifications Committee for Professional Emergency Educators, Chair 1990 – 1996
The committee developed professional qualifications and certification procedures for the Demonstrator, Trainer, and Educator levels as identified in the EMAC System. This certification and accreditation program was used by those involved in providing training and education in the Industrial Emergency Response Community.

(12.) Professional Qualifications Committee for Industry (1990 – 1996)
The committee developed professional qualifications and certification procedures for the Industrial Emergency Response Community. The qualifications and certification process was designed to meet the needs of industry and to meet or exceed the existing OSHA requirements.

(13.) Professional Qualifications Committee for Hazardous Materials Responders (1990 – 1996)
The committee developed professional qualifications and certification procedures for the Hazardous Materials Response Community. The qualifications and certification process was designed to meet the needs of industry and the fire and emergency response community and to meet or exceed the existing OSHA requirements.

(14.) ISFSI Industrial Fire Brigade Certification Board, International (1988 – 1991)

(15.) Fire Department Instructors Conference Planning Committee (1983 – 1997)

(16.) Instructor Development Clinic
Chair, 1985 – 1992
Special Advisor 1993 – 1996

(17.) Training and Education Committee 1979 – 1981

In addition to the items listed, I participated in a number of Ad Hoc committees that completed studies or tasks in a variety of areas. For example, Long Range Planning Committee, Constitution and Bylaws Committee, Business Plan Development and Review Committee, and many others. Some of the Ad Hoc Committees were Board of Directors related others were membership and technical related.
http://www.isfsi.org

b. The Alliance for Fire and Emergency Management

The Alliance for Fire and Emergency Management was the operational body for a number of fire and emergency service related membership organizations. The Alliance for Fire and Emergency Management was not a membership organization, but was comprised of the Chairs, of the member organizations and Officers that were elected from that group.

(1.) First Vice Chairman of the Commission 1994 – 1996

(2.) Professional Emergency Educators Association 1993 – 1996

(3.) Hazardous Materials Emergency Responders Association 1993 – 1996

(4.) Industrial Fire and Emergency Management Training Association 1992 – 1996

c. National Association of Fire Investigators

The National Association of Fire Investigators is a professional membership association with a focus on the Fire, Arson, and Explosion Investigation community. NAFI, was the first organization to establish a professional certification system and currently certifies fire, arson, and explosion investigators as well as those who provide education and training.

(1.) Member of the Board of Directors (1984 – present)

(2.) Member of the Board of Governors (1989 – present)

(3.) National Certification Board
Member, 1985 – present
Chair, 1992 – present

The National Certification Board is responsible for overseeing the requirements for certification, evaluation of certification applications, examinations for certification, and the requirements for re-certification. In addition, the Certification Board is evaluating the potential of application for accreditation under the National Fire Professional Qualifications Board, an accreditation and certification body that is operated by the National Fire Protection Association.

(4.) Fire, Arson, and Explosion Investigation Safety Committee
Chair, 1989 – present

This committee made recommendations to the NFPA – 921 committee in the area of investigator safety. The committee has also been responsible for notifying the NAFI membership as well as those that participate in NAFI sponsored seminars and training programs of changes in the federal safety related regulations, changes in NFPA –921, and in overall safety related issues that impact the investigator.

(5.) Training and Education Committee
Member, 1984 – present
The Training and Education Committee is responsible for evaluating the educational content of those seminars that NAFI co-sponsors to ensure that it meets or exceeds criteria established. Provide input to the NFPA – 921 concerning fire, arson, and explosion investigator training and education as well as other state and local organizations that seek assistance with the establishment of effective educational and training programs. http://www.nafi.org

d. National Fire Protection Association (1983 – present)

The National Fire Protection Association is a professional membership organization that has as a primary focus fire protection. NFPA, is the largest of all of the fire related professional organizations in the world with a membership in excess of 66,000. The NFPA is responsible for the publication of fire related codes and standards that are used worldwide and also produce a number of technical documents and educational materials.

(1.) Fire Science Educators and Technology Section
The Fire Science Educators and Technology section is an active section of the NFPA that represents those involved in higher education or have an interest in higher education opportunities for the fire protection and emergency response communities. This section is the only fire service technical group with a specific focus on higher education needs and trends.

Member (1983 – present)
Section Board of Directors (1988 – present)
Section Vice Chair (1994 – 1999)
Section Chair (1999 to 2003)
Immediate Past Chair (2003 to present)

(2.) Technical Committee on Fire Investigations
This committee is responsible for the development of NFPA 921, Guide for Fire and Explosion Investigations. Appointed as a committee member in 1993, as the representative of the Fire Service Section, NFPA and have continued to been re-appointed on an annual basis by the NFPA Standards Council.

(3.) Technical Committee on Fire Service Instructor Professional Qualifications
This committee is responsible for the development of NFPA – 1041, Standard for Fire Service Instructor Professional Qualifications. Appointed as a committee member in 1991 as the representative of ISFSI and the Alliance for Fire and Emergency Management and have continued to been re-appointed on an annual basis by the NFPA Standards Council.

http://www.nfpa.org

e. International Association of Arson Investigators, (1977 – present)

The International Association of Arson Investigators is a professional membership organization with a primary focus on the prevention and control of Arson.

http://www.fire-investigators.org/

Membership is also maintained in the Kentucky Chapter of IAAI

f. Kentucky Safety and Health Network, (1985 – present)

The Kentucky Safety and Health Network is a network of safety and health related professionals with a mission to improve safety and health related capabilities of its members.
Charter Member

http://www.kshn.org/

g. Safety and Health Hall of Fame, International

International was formed in May 1987 to provide a living legacy for safety and health professionals, a legacy that pays homage to those who have given unselfishly of themselves, so that all people, one day, will truly have a life that is free of recognized hazards.

Dedicated to recognizing acclaimed leaders and pioneers for their innovative contributions and service to safer workplaces and communities, the Safety and Health Hall of Fame International is among the most prestigious events at the National Safety Council's Congress & Exposition.

Charter member representative to governing council until the operation of the award was transferred to the National Safety Council.
Treasurer (1986 – 1989)

http://www.nsc.org/shhofi.htm

D. Scholarship of Teaching

Teaching as included in this document demonstrates the level of learning of the teacher and provides a forum for the transfer of information that has been and continues to be obtained through discovery and integration. Teaching is the vehicle by which information is used, tested, evaluated, and new discoveries afforded rather than to be placed on a shelf and gather dust. Included in this section are instructional activities above the normal academic class load. It is through the forum of practitioners that knowledge obtained as a result of discovery and integration is validated so that when the information is artfully and accurately presented in the classroom the students can be assured of the quality and level of the learning process.

The presentations included in this listing are as a result of the original work of discovery and the expansion and integration of the body of knowledge with other disciplines. In each of the items listed it should be noted that the presentation was by invitation and that in each case there are others in the field that could also have completed the presentation. But, in each instance, others were not invited and in many instances repeat invitations were afforded.

Conference and Seminar Presentations

Calendar Year 2006

1. Occupational Safety and Health Administration (OSHA) Training Institute
   Eastern Kentucky University Educational Center Courses
   Richmond, KY 40475

   a. OSHA 502 Trainer Updated, Construction Industry Standards
   January 24 - 26, 2006
   Topics: Training Tips, Fall Protection and Scaffolding

   b. OSHA 2225 Respiratory Protection
   January 31 – February 2, 2006
   Topics: Introduction to Respiratory Protection, Respiratory Protection Equipment and Limitations, Respiratory Protection Programs

   c. OSHA 500 Construction Industry Standards, Trainer Course
   February 14 - 17, 2006
   Topics: Introduction to OSHA and the Act, Inspections, Citations, Multiemployer Worksites, and Focused Inspections, Recordkeeping, Training Tips and Instructional Techniques, Safety Programs, Health Hazards, Hazard Communication, Fall Protection, Electrical, and Hand and Power Tools

d. OSHA 511 General Industry Standards
February 22, 2006
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress and Emergency Action Plans

e. OSHA 500 Construction Industry Standards, Trainer Course
April 18 - 21, 2006
Topics: Introduction to OSHA and the Act, Inspections, Citations, Multiemployer Worksites, and Focused Inspections, Recordkeeping, Training Tips and Instructional Techniques, Safety Programs, Health Hazards, Hazard Communication, Fall Protection, Electrical, and Hand and Power Tools

f. OSHA 2264 Permit Required Confined Space
April 25 - 27, 2006
Topics: Scope and Definitions of 29CFR1910.146, Confined Space Program Elements, Identification and Control of Confined Space Hazards, Confined Space Training Requirements, and Confined Space Rescue Operations and Techniques

g. OSHA 510 Construction Industry Standards
July 11 - 14, 2006
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress and Emergency Action Plans

h. OSHA 500 Construction Industry Standards, Trainer Course
August 22 - 25, 2006
Topics: Introduction to OSHA and the Act, Inspections, Citations, Multiemployer Worksites, and Focused Inspections, Recordkeeping, Training Tips and Instructional Techniques, Safety Programs, Health Hazards, Hazard Communication, Fall Protection, Electrical, and Hand and Power Tools

i. OSHA 510 Construction Industry Standards
September 12 – 15, 2006
Topics: Recordkeeping, Safety Programs, Fire Protection, Confined Space, Safety Programs, Fire Protection, Confined Space, Health Hazards, PPE, Welding Standards, Fall Protection, Electrical, and Hand and Power Tools

j. OSHA 6000 Collateral Duty Course for Federal Agencies
September 12 – 15, 2006
Topics: Introduction to OSHA and the Act, Accident Investigation, Safety Programs, Fire Protection, Confined Space, Health Hazards, PPE, Welding Standards, Fall Protection, Electrical, and Hand and Power Tools

k. OSHA 500 Construction Industry Standards, Trainer Course
October 3 - 6, 2006
Topics: Instructor Tips, Electrical Safety, Demolition and Blasting, Tools, Scaffolding, Electrical, and OSHA Outreach

l. OSHA 10 Hour General Industry Standards
November 8, 2006
Topics: PPE and Materials Handling

m. OSHA 500 Construction Industry Standards, Trainer Course
November 14 - 17, 2006
Topics: Instructor Tips, Electrical Safety, Demolition and Blasting, Tools, Scaffolding, Electrical, and OSHA Outreach

n. OSHA 10 Hour General Industry Standards
November 15, 2006
Topics: Introduction to Ergonomics and Machine Guarding

o. OSHA 10 Hour General Industry Standards
November 20, 2006
Topics: Exit Routes, Emergency Action Plans, Fire Prevention Plans, Fire Protection Subparts E and L, Electrical, Personal Protective Equipment, Machine Guarding

p. OSHA 10 Hour General Industry Standards
November 27, 2006
Topics: Exit Routes, Emergency Action Plans, Fire Prevention Plans, Fire Protection Subparts E and L, Electrical, Personal Protective Equipment, Machine Guarding

2. Seminar and Conference Presentations

a. Kentucky Fire Officers School
Green River Fire Fighters Association
Owensboro, KY
February 24-25, 2006
Topic: Building Construction and it's Effect to the Response to Structure Fires

b. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 14-18, 2006

Topics:

Certified Fire Investigator Instructor Program, March 14, 2006
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns
Explosion Scene Analysis; Explosion Theory, Condensed Phase Fuel Explosions, Diffuse Phase Fuel Explosions, Explosion Scene Lab
Computer Fire Modeling and Analysis

c. Rhode Island Chapter of IAAI Annual Training Conference
May 23 – 26, 2006

Topics:

Fire Dynamics
Evaluation of Ignition Factor
Incendiary Fire Analysis
Explosion Investigation

d. Korea Gas Safety Corporation Annual Seminar
Seoul, South Korea
June 23, 2006

Topic: Explosion Investigation

e. 2006 International Symposium on Fire Investigation Science and Technology
Cincinnati, OH
June 26-28, 2006

Topic: Management of Major Investigations

f. National Fire, Arson and Explosion Investigation Science and Technology Training Program
National Association of Fire Investigators
Sarasota, FL
August 6 - 9, 2006

Topics:

Certified Fire Investigator Instructor Program, August 7, 2005
Fire Chemistry and Fire Dynamics
Explosion Scene Investigation and Analysis

g. National Seminar on Fire Investigation Litigation
National Association of Fire Investigators
Sarasota, FL
August 10 -11, 2006
Topic: Management of Major Investigations

h. Canadian National Fire, Arson and Explosion Investigation Training Program
Toronto, Ontario, Canada
October 21 - 26, 2006

Topics:
Certified Fire Investigator Instructor, October 22, 2005
NFPA-921, 2004 Edition Update
Fire Chemistry and Dynamics
Evidence Collection and Preservation
Documenting the Investigation
Investigating the Explosion Scene

Calendar Year 2005

1. Occupational Safety and Health Administration (OSHA) Training Institute
Eastern Kentucky University Educational Center Courses
Richmond, KY 40475

a. OSHA 510 Construction Industry Standards
January 13, 2005
Topics: Fall Protection and Scaffolding

b. OSHA 511 General Industry Standards
January 21, 2005
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress and Emergency Action Plans

c. OSHA 500 Construction Industry Standards, Trainer Course
March 1, 2005
Topics: Demolition, Scaffolding, Electrical and Confined Space

d. OSHA 2311 Fall Protection
March 15, 16, 2005
Topics: General Requirements, Warning Lines and

e. OSHA 511 General Industry Standards
April 8, 2005
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress and Emergency Action Plans

f. OSHA 2264 Confined Space Entry
April 5 – 7, 2005
Topics: Scope and Definitions; Confined Space Hazards; Training; Rescue and Retrieval Systems; Permit Required Confined Space Program Elements

g. OSHA 501 General Industry Standards, Trainer Course
April 20, 2005
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress and Emergency Action Plans

h. OSHA 6000 Course,
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress, Emergency Action Plans and Accident Investigation

i. OSHA Respiratory Protection
May 24-26
Topics: Permissible practice, Definitions, Respiratory Protection Programs, Training and Information

j. OSHA 500 Construction Industry Standards, Trainer Course
June 10, 2005
Topics: Electrical Safety, Demolition and Blasting, Tools, Scaffolding and OSHA Outreach

k. OSHA 501 General Industry Standards, Trainer Course
Topics: Hazardous Materials, Fire Protection and Emergency Response, Egress and Emergency Action Plans

l. OSHA 511 General Industry Standards
June 24, 2005
Topic: OSHA Recordkeeping Requirements

m. OSHA 510 Construction Industry Standards
July 13 and 15, 2005
Topics: Safety and Health Programs, Fire Protection and Emergency Response, Demolition and Blasting, and Hazard Recognition Workshop

n. OSHA 511 General Industry Standards
July 19 and 22, 2005
Topics: Hazardous Materials, Egress, Emergency Action Plans, Fire Protection and Emergency Response

o. OSHA 500 Construction Industry Standards, Trainer Course
July 26-29, 2005
Topics: Hand Tools; Demolition; Introduction to OSHA and the Act; Safety Programs; Inspections, Citations, Multi-Employer Worksites; Fall Protection; Scaffolding; Electrical; Confined Spaces; Training Techniques

p. OSHA Residential Construction Course, Pilot Program
July 29, 2005
Topic: Demolition

2. Seminar and Conference Presentations

a. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 7-12, 2005
Topics:
Certified Fire Investigator Instructor Program, March 7, 2005
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns
Explosion Scene Analysis; Explosion Theory, Condensed Phase Fuel Explosions, Diffuse Phase Fuel Explosions, Explosion Scene Lab
Computer Fire Modeling and Analysis

b. Vehicle Fire Investigation Seminar
Professional Arson Resource Cooperative (PARCO)
Tampa, Florida
May 12 and 13, 2005
Topics:
Vehicle Fire Chemistry and Dynamics
Documenting the Fire Scene
Vehicle Arson Investigation

c. National Fire, Arson and Explosion Investigation Science and Technology Training Program
National Association of Fire Investigators
Sarasota, FL
August 7- 10, 2005

Topics:
- Certified Fire Investigator Instructor Program, August 7, 2005
- Fire Chemistry and Fire Dynamics
- Explosion Scene Investigation and Analysis

d. National Seminar on Fire Investigation Litigation
National Association of Fire Investigators
Sarasota, FL
August 11-12, 2005

Topic: Management of Major Investigations

e. Vehicle Fire and Arson Investigation Science and Technology Training Program
National Association of Fire Investigators
Richmond, KY
September 26 - 29, 2005

Topics:
- Vehicle Fire Chemistry and Dynamics
- Vehicle Arson Investigation
- Vehicle Fire Demonstrations

f. Canadian National Fire, Arson and Explosion Investigation Training Program
Toronto, Ontario, Canada
October 22 - 27, 2005

Topics:
- Certified Fire Investigator Instructor, October 22, 2005
- NFPA-921, 2004 Edition Update
- Fire Chemistry and Dynamics
- Evidence Collection and Preservation
- Documenting the Investigation
- Investigating the Explosion Scene

Calendar Year 2004

1. Occupational Safety and Health Administration (OSHA) Training Institute
Eastern Kentucky University Educational Center Courses
Richmond, KY 40475

a. OSHA 500 Construction Course
January 22, 2004
Topics: Fall Protection and Scaffolding

b. OSHA Confined Space Course
February 10-12, 2004
Entire Course

c. OSHA 500 Construction Standards Course
May 13, 2004
Topics: Fall Protection and Scaffolding

d. OSHA Electrical Standards Course
May 27, 2004
Topics: Lock Out/Tag Out, Electrical Safety and Hazard Recognition

e. OSHA Electrical Standards Course
August 4-5, 2004
Topics: Lock Out/Tag Out, Electrical Safety and Hazard Recognition

2. Conference and Seminar Presentations

a. Building Construction and it's Effect to the Response to Structure Fires
Officers School
Green River Fire Fighters Association
Owensboro, KY
February 27-29, 2004

b. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 9-13, 2004
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns
Explosion Theory
Computer Fire Modeling and Analysis

c. Advanced Fire Scene Analysis Techniques
Baker Engineering
San Antonio, TX
March 31 and April 1, 2004

Topics: Fire Chemistry and Dynamics
Evidence Collection and Preservation
Documenting the Investigation
Building Systems

d. Professional Arson Resource Cooperative (PARCO)
Tampa, Florida
May 20-21, 2004

Topics: NFPA-921 Update and Principles of Fire Investigation
Fire Chemistry and Dynamics
Fire Patterns
Documenting the Fire Scene
Explosion Investigation and Analysis
Evidence Collection and Preservation
Documenting the Fire Investigation

e. National Fire Protection Association, Annual Meeting
Salt Lake City, Utah
May 24, 2004
Topic: Management of Major Fire Investigations

f. International Symposium on Fire Investigation
British Fire Service College
Moreton-in-Marsh, Glouchestire
England, UK
June 27-30, 2004

Topics:
Explosion Investigation and Analysis: Investigating the Explosion Scene
Fire and Explosion Investigation Training and Education in the U.S.

g. InterFlam 2004
Edinburgh Conference Centre
Harriet Watts College of the University of Edinburgh
Edinburgh, Scotland
July 5-7, 2004
An Analysis of Issues and Solutions for the Management of Fire Investigations at Major Incidents

h. National Association of Fire Investigators
National Fire, Arson and Explosion Investigation Training Program
Sarasota, FL
August 8-11, 2004
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Explosion Scene Investigation and Analysis

i. Vehicle Fire and Arson Investigation Science and Technology Training Program
National Association of Fire Investigators
Richmond, KY
September 26 - 29, 2004

Topics:
Vehicle Fire Chemistry and Dynamics
Vehicle Arson Investigation
Vehicle Fire Demonstrations

j. Canadian National Fire, Arson and Explosion Investigation Training Program
Toronto, Ontario, Canada
October 22 - 27, 2004

Topics:
Certified Fire Investigator Instructor, October 22, 2005
NFPA-921, 2004 Edition Update
Fire Chemistry and Dynamics
Evidence Collection and Preservation
Documenting the Investigation
Investigating the Explosion Scene

k. National Fire Protection Association, Fall Meeting
Miami, FL
November 14-19, 2004
Topics: Management of Major Investigations

l. Technical Working Group Fire and Explosions (TWGFEX), 4th Annual Symposium on Fire and Explosion Investigation
Orlando, FL
November 21-22, 2004
Impact of Fire Investigation Related Standards

Calendar Year 2003

1. Building Construction and it's Effect to the Response to Structure Fires Officers School
Green River Fire Fighters Association
Owensboro, KY
February 21-23, 2003

2. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 18-22, 2003
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns
Explosion Theory
Computer Fire Modeling and Analysis

3. Governors Safety and Health Conference (Kentucky)
Louisville, KY
May 7-9, 2003
Topic: Physical and Chemical Properties of Hazardous Materials

4. National Association of Fire Investigators
National Fire, Arson and Explosion Investigation Training Program
Sarasota, FL
August 10-15, 2002
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Evidence Collection and Preservation
Documenting the Fire Scene
Diagramming
Photographing
Explosion Scene Investigation and Analysis
Computer Fire Modeling and Analysis

5. Vehicle Fire Instigation Science and Technology Program
National Association of Fire Investigators
Richmond, KY
October 1-3, 2003
Topics: Scene Analysis (Demo and Static Burn Demonstrations)
Physical and Chemical Properties of Materials

6. Canadian National Fire and Explosion Investigation Conference
Toronto, Canada
October 25- 30, 2003
Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire and Explosion Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis
Incendiary Fire Analysis
Certified Fire Investigator Instructor Course

7. National Fire Protection Association, Fall Meeting
Reno, NV
November 14-19, 2003
Topics: NFPA-921 Chapter 1 Administration Overview
Pre-Conference Seminar on NFPA-921, Guide for Fire and Explosion Investigation
Management of Major Fire Investigations, Documenting the Investigation

8. Technical Working Group Fire and Explosions (TWGFEX), 3rd Annual Symposium on Fire and Explosion Investigation
Orlando, FL
November 21-22, 2003
NFPA-921 2004 Edition, An Update

Calendar Year 2002

1. Fire Protection Systems Inspection Course (Water Based)
Cincinnati Insurance Company
Loss Control Staff
Eastern Kentucky University
Richmond, KY 40475
February 11-14, 2002
Topics: Fire Protection Chemistry and Fire Dynamics
Occupancy Classification
Fire Pump Testing

2. Building Construction and it's Effect to the Response to Structure Fires Officers School
Green River Fire Fighters Association
Owensboro, KY
February 16-17, 2002

3. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 13-17, 2001.

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns
Explosion Theory
Computer Fire Modeling and Analysis

4. Governors Safety and Health Conference (Kentucky)
Louisville, KY
May 8-10, 2002

Topic: Physical and Chemical Properties of Hazardous Materials

5. National Association of Fire Investigators
National Fire, Arson and Explosion Investigation Training Program
Sarasota, FL
August 11-16, 2002

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Evidence Collection and Preservation
Documenting the Fire Scene
Diagramming
Photographing
Explosion Scene Investigation and Analysis
Computer Fire Modeling and Analysis

6. Kentucky Fire and Arson Investigation Program
Somerset Fire Department
Somerset, KY
September 23-27, 2002

Topics: Safety and Health at the Fire Scene
Building Construction

7. Vehicle Fire Instigation Science and Technology Program
National Association of Fire Investigators
Richmond, KY
October 1-3, 2002

Topics: Scene Analysis (Demo and Static Burn Demonstrations)
Vehicle Arson Analysis

8. Canadian National Fire and Explosion Investigation Conference
Toronto, Canada
October 20- October 24, 2002.

Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire and Explosion Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis
Incendiary Fire Analysis

9. Fire Investigation
Consumer Product Safety Commission
Eastern Kentucky University
Richmond, KY
October 29-31, 2002

Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire Scene Evidence

10. Fireworks and Explosives Regulations and Incident Scene Analysis
Consumer Product Safety Commission
Eastern Kentucky University
Richmond, KY 40475
November 5-7, 2002

Topics: Explosion Dynamics
Explosive Materials Identification
Explosion Scene Analysis

11. National Fire Protection Association, Fall Meeting
Atlanta, GA
November 15-19, 2002
Topic: Computer Fire Modeling for Fire Investigation

Calendar Year 2001

1. Building Construction and it's Effect to the Response to Structure Fires
Green River Firefighters Association Officer's School
Owensboro, KY
February 19-8, 2001.

2. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 13-17, 2001.

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns
Explosion Theory
Computer Fire Modeling and Analysis

c. National Association of Fire Investigators, Sarasota, FL; July 22-27, 2001.

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Evidence Collection and Preservation
Documenting the Fire Scene
Diagramming
Photographing
Explosion Scene Investigation and Analysis
Computer Fire Modeling and Analysis

d. Canadian National Fire and Explosion Investigation Conference, Toronto, Canada; October 28 - November 1, 2001.

Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire and Explosion Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis
Incendiary Fire Analysis

e. Consumer Product Safety Commission Fire Investigation Program, EKU Campus; November 6-8, 2001.
Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire

f. Utah Fire Investigation Workshop, Salt Lake City, UT; November 9, 2001.
Topic: NFPA-921 Guide for Fire and Explosion Investigation, Update and Impact of the 2001 Edition.

g. National Fire Protection Association Fall Meeting, Dallas, TX ; November 11 - 14, 2001.
Topic: Meeting the Fire Investigation Instructor Education and Certification Challenge

Calendar Year 2000

1. Improving Fire Safety Education Programs
California Fire Prevention Officers Association
Monterey, CA; February 11, 2000

2. Building Construction and it's Effect to the Response to Structure Fires
Green River Firefighters Association Officer's School
Owensboro, KY
February 19, 2000

3. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 21-25, 2000
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research
Burns
Explosion Theory

3. Kentucky International Association of Arson Investigators School
Somerset, KY
May 1-5, 2000
Topics: Update and Revisions to NFPA-921; Guide for Fire and Explosion Investigation.

4. Florida Advanced Fire and Arson Investigation Conference
Ft. Lauderdale, FL
May 9-12, 2000
Topics: Chemistry of Fire and Fire Behavior
Fire Dynamics
Collection and Preservation of Fire Scene Evidence
Documenting the Fire and Explosion Scene
Diagramming
Photographing
Explosion Scene Investigation and Analysis

5. Indiana Chapter of the International Association of Arson Investigators State Meeting and Conference
Indianapolis, IN
May 22, 2000

Topic: Fire and Explosion Legal Issues and NFPA-921; Guide to Fire and Explosion Investigation

6. Bombing Crime Scene Investigation Program
U.S. Department of Justice Sponsored Grant Program
Eastern Kentucky University Campus
June 4, 2000– July 21, 2000 (7 – 1 week Classes)

Topics: Explosion Theory
Explosives Recognition
Bomb Threats
Field and Practical Exercises

7. National Association of Fire Investigators
Hoffman Estates, IL
July 24-28, 2000

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Evidence Collection and Preservation
Documenting the Fire Scene
Diagramming
Photographing
Explosion Scene Investigation and Analysis

8. Advanced Fire and Arson Investigation
FBI Academy
Quantico, VA
September 11-15, 2000

Topic: Building Construction for Fire Investigators

9. Canadian National Fire and Explosion Investigation Conference
Toronto, Canada
November 12-15, 2000

Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire and Explosion Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis
Incendiary Fire Analysis

10. Virtual Fire Rescue Exposition
Internet Based Program http://www.vfre.com
November 22 – December 5, 2000
Topic: Developing Technology Based Instruction

Calendar Year 1999

1. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program, EKU Richmond, KY; April 7 - 10, 1999
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns

2. EKU Residence Hall Association, Campus Wide Growth Program, Eastern Kentucky University Campus, April 20, 1999
Topic: Fire Safety in the Residence Halls

3. Governors Safety and Health Conference, Louisville, KY; May 6, 1998
Topics: Physical and Chemical Properties of Hazardous Materials
Improving Safety Related Training Programs

4. Bombing Crime Scene Investigation Program, Eastern Kentucky University Campus; May 23, 1999 – July 30, 1999 (Ten – 1 week Classes)
Topics: Explosion Theory
Explosives Recognition
Bomb Threats
Field and Practical Exercises

5. Kentucky State Fire School; Lexington, KY; June 7 - 9, 1999
Topic: Module II, SCBA Class

6. Florida Advanced Fire and Arson Investigation Conference, Ft. Lauderdale, FL; July 6-9, 1999
Topics: Dynamics of Fire Investigation
Fire Dynamics
Collection and Preservation of Fire Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis

7. National Association of Fire Investigators, Hoffman Estates, IL; August 10 – 14, 1999

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Evidence Collection and Preservation
Documenting the Fire Scene
Explosion Scene Investigation and Analysis

8. Advanced Fire and Arson Investigation, FBI Academy, Quantico, VA; August 23, 1999

Topic: Building Construction for Fire Investigators

9. Colorado Fire and Arson Investigation Conference, Denver, CO; September 20 – 23, 1999

Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire and Explosion Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis

10. Jackson County Fire Departments, McKee, Kentucky; October 5, 1999

Topic: Chemistry of Fire and Fire Dynamics

11. Canadian National Fire and Explosion Investigation Conference, Toronto, Canada; November 13-17, 1999

Topics: Dynamics of Fire Investigation
Chemistry and Dynamics of Fire
Room Fire Growth and Development
Fire Pattern Recognition and Analysis
Collection and Preservation of Fire and Explosion Scene Evidence
Documenting the Fire and Explosion Scene
Explosion Scene Investigation and Analysis

12. Virtual Fire Rescue Exposition, Internet http://www.vfre.com ; November 22 – December 5, 1999

Topic: Responding to an Explosion Scene, Tools for the First Responder

Calendar Year 1998

1. Green River Firefighters Association Officer's School, Owensboro, KY; February 13-15, 1998

Topic: Building Construction and it's Effect to the Response to Structure Fires

2. Richmond Rotary Club, Richmond, KY; February 14, 1998
Topics: Fire and Safety Engineering Technology Program, Informational
Fire Safety Programs in the Schools

3. New England Fire Investigation Conference, Providence, Rhode Island; March 4-6, 1998
Topics: Fire Dynamics
Documenting the Fire and Explosion Scene
Fire Investigation Scene Safety

4. EKU Rescue School, Eastern Kentucky University Campus; April 4 - 5, 1998
Topics: Confined Space Rescue Techniques
Instructional Skills
Training Program Development

5. Safety and Manager Training Course, Dow Corning, Carrolton, KY; April 7 - 8, 1998
Topic: Accident Investigation Techniques

6. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program, EKU Richmond, KY; April 29- May 2, 1998
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research Burns

7. Governors Safety and Health Conference, Louisville, KY; May 6, 1998
Topic: Physical and Chemical Properties of Hazardous Materials

8. Kentucky State Fire School; Lexington, KY; June 1 - 3, 1998
Topic: Module II, SCBA Class

9. National Association of Fire Investigators, Hoffman Estates, IL; July 27- 31, 1998
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Evidence Collection and Preservation
Documenting the Fire Scene

10. Ghent Generating Station Emergency Response Team Training Program, Kentucky Utilities Ghent Generating Station, Ghent, KY; August 11 - 12, 1998
Topic: Self-Contained Breathing Apparatus Use

11. National Fire Investigator Training Program, Missouri City, TX; August 24-26, 1998

Topics: Fire Dynamics
Documenting the Fire Scene
Collecting and Preserving Fire Scene Evidence
Conducting Full Scale Fire and Arson Investigation Research
Burns

12. Kentucky Court Reporters Association Conference and Educational Program, Natural Bridge State Park; September 12, 1998

Topic: Fire Investigation Terms and Concepts

13. Madison County Fire Departments, Regional Fire Training Center, Richmond, KY; September 21, 1998

Topic: Self Contained Breathing Apparatus; Field Inspection Procedures

14. Fall Meeting and Educational Program, National Fire Protection Association, Atlanta, GA; November 14, 1998

Topic: Computer Fire Modeling, A Primer

15. Canadian National Fire and Explosion Investigation Seminar, Toronto, Canada; November 16, 1998

Topics: Dynamics of Fire Investigation
Fire Dynamics
Documenting the Fire and Explosion Scene
Fire and Explosion Evidence Collection and Preservation
Explosion Scene Investigation and Analysis

Calendar Year 1997

1. Green River Firefighters Association Officer's School, Owensboro, KY; February 22-23, 1997

Topic: Building Construction and it's Effect to the Response to Structure Fires

2. Certified Emergency Management Accreditation and Certification Systems Trainer Course, Automatic Fire Alarm Association, Albuquerque, NM; March 4-5, 1997

3. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program, EKU Campus, Richmond, KY; March 18-22, 1997

Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research
Burns

4. Governors Safety and Health Conference, Louisville, KY; April 23, 1997
Topic: Physical and Chemical Properties of Hazardous Materials

5. EKU Rescue School, Eastern Kentucky University Campus, Richmond, KY; April 26-27, 1997
Topics: Confined Space Entry and Rescue
Emergency Services Instructor

6. Kentucky State Fire School; Lexington, KY; June 2 - 4, 1997
Topic: Module II, SCBA Class

7. Annual Meeting, National Association of Fire Investigators; Schaumburg, IL July 28-August 1, 1997
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Documenting the Fire Scene

8. National Fire Investigator Training Program, Missouri City, TX; August 28-29, 1997
Topics: Fire Dynamics
Documenting the Fire Scene
Evidence Collection and Preservation
Conducting Full Scale Fire Research Test Burns

9. Maine Safety Conference, Portland, ME; October 1, 1997
Topic: First Response to Explosives and Terroristic Incidents in the Industrial Setting

Calendar Year 1996

1. Iowa Society of Fire Service Instructors; Davenport, IA, January 5-7, 1996
Topic: ISFSI Update and the Future of Fire Service Education and Training.
This program was offered as a distance learning interactive program broadcast throughout the state of Iowa.

2. Officers School; Owensboro, KY, February 3 and 4, 1996
Topic: Building Construction and Emergency Response

3. Industrial Risk Insurers Trainer Course; Erlanger, KY; February 6-7, 1996

4. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program; Eastern Kentucky University; March 20-23, 1996

Topics: Certified Fire Investigation Instructor Course
Introduction to the Standards Making Process
Chemistry of Fire
Conducting Full Scale Fire and Arson Investigation Research
Burns

5. EKU Rescue School, Eastern Kentucky University Campus, April 19-21, 1996

Topic: Confined Space Rescue Techniques

6. Governors Safety and Health Conference; Louisville, KY; April 24, 1996

Topic: Physical and Chemical Properties of Materials

7. Kentucky State Fire School; Lexington, KY; June 3-5, 1996

Topic: Module II, SCBA Class

8. Annual Meeting, National Association of Fire Investigators; Schaumburg, IL July 29-August 2, 1996

Topic: Fire Investigation Instructor Certification Course
Chemistry of Fire and Fire Behavior

9. Alaska Association of Arson Investigators Annual Training Program. Soldotna, AK September 3-7, 1996

Topics: Chemistry of Fire and Fire Behavior
Explosion Investigation

10. Advanced Fire Investigation and Fire Science Seminar; Toronto, Canada, November 24-November 27, 1996

Topics: Introduction to the Standards Making Process
Chemistry of Fire and Fire Behavior
Collection and Handling of Fire Scene Evidence
Documenting the Fire and Explosion Scene

Calendar Year 1995

1. Hazardous Materials Conference; Orlando, FL; January 5-8, 1995

Topic: Confined Space Rescue Operations

2. Aurora Fire Department Fire Investigation Training Program; Aurora, CO, January 18-21, 1995

Topics: Chemistry of Fire and Fire Behavior
Coordinating Live Fire Demonstrations
Coordinating field activities

3. Fire Department Instructors Conference; Indianapolis, IN; February 1-8, 1995
Topic: Emergency Educator Program

4. Pittsburgh Plate Glass Safety Training Program; EKU Campus; February 27, 1995
Topic: Fire Extinguisher Training

5. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program, EKU Richmond, KY; April 29- May 2, 1995
Topics: Certified Fire Investigator Instructor Program
Fire Dynamics
Conducting Full Scale Fire and Arson Investigation Research
Burns

6. EKU Rescue School, EKU Campus, Richmond, KY; April 21-23, 1995
Topic: Confined Space Rescue Techniques

7. NFPA Annual Meeting, Denver, CO, May 20-24, 1995
Topic: Training Programs for Industrial Emergency Response

8. Emergency Educator Challenge Exam Refresher Course; Ashland, MA; June 1-3, 1995

9. Kentucky State Fire School; Lexington, KY, June 4-6, 1995
Topic: Module II, SCBA Class

10. Kenton/Boone County Fire School; Highland Heights, KY; June 24-25, 1995
Topic: Intermediate SCBA Program

11. Annual Meeting, National Association of Fire Investigators; Schaumburg, IL July 25-29, 1995
Topic: Fire Investigator Instructor Certification Course
Chemistry of Fire and Fire Behavior

12. Central Kentucky Fire Fighters Association Annual School; Richmond, KY; October 7-8, 1995
Topic: Intermediate SCBA Program

13. Advanced Fire Investigation and Fire Science Seminar; Toronto, Canada, October 29-November 1, 1995
Topics: Fire Investigator Instructor Certification Course
Chemistry of Fire and Fire Behavior

14. Fire Department Safety Officers Conference, Fire Department Safety Officers Association; St. Louis, MO November 2-5, 1995
Topic: Accident Investigation Techniques

15. National Fire Protection Association Fall Meeting; Chicago, IL, November 12-15, 1995
Topic, Teaching NFPA-921

Calendar Year 1994

1. Chemistry of Fire; Recruit Class, Clay City Fire Department, Kentucky Tech Fire Service Training; January 16, 1994

2. Chemistry of Fire; Recruit Class, Versailles Fire Department, Kentucky Tech Fire Service Training; January 22, 1994

3. Institute for Life Safety Technology and Emergency Management Education Trainer Course; Grand Junction, CO; March 4-5, 1994

4. Advanced Fire Investigation and Fire Science Seminar, EKU March 16-19, 1994
Topics: Fire Investigator Instructor Certification Course
Chemistry of Fire and Fire Behavior
Conducting Full Scale Fire and Arson Investigation Research Burns

5. Fire Department Instructors Conference; Cincinnati, OH; March 23-30, 1994
Topic: Fire Mania Central: Role of the Emergency Educator

6. EKU Rescue School; Eastern Kentucky University Campus, Richmond, KY; April 9-10, 1994
Topic: Confined Space Rescue

7. Barren River Rescue School; Bowling Green, KY; April 16-17, 1994
Topic: Confined Space Rescue

8. Bluegrass Chapter of the American Society of Safety Engineers; Lexington, KY; April 20, 1994
Topic: Industrial Emergency Response

9. Annual Meeting, National Fire Protection Association; San Francisco, CA May 14-19, 1994
Topic: Higher Education and the Fire Service, Panel Moderator and Presenter

10. Ventilation Course; Recruit Class, Richmond FD Regional Fire Training Center, Kentucky Tech Fire Service Training; May 21, 1994

11. Kentucky State Fire School; Lexington, KY; June 5-7, 1994.
Topic, Module II, SCBA Class

12. Annual Meeting, National Association of Fire Investigators; Schaumburg, IL; July 25-29, 1994
Topic: Fire Investigator Instructor Certification Course
Chemistry of Fire and Fire Behavior

13. Confined Space Entry; Alcan Aluminum Co., Berea, KY; September 6 - 7, 1994

14. Institute for Life Safety Technology and Emergency Management Education Trainer Course; Industrial Risk Insurers, Cincinnati, OH; October 6-7, 1994

15. Fire Department Safety Officers Conference, Fire Department Safety Officers Association; St. Louis, MO November 4-6, 1994
Topic: Accident Investigation Techniques

16. Fire Officers Retreat, Fire Officers Association; Lake Tahoe, NV; November 11-13, 1994
Topic: Accident Investigation Techniques

17. Kentucky State Police In service Training, Frankfort, KY November 16, 1994
Topic: Fire Investigation and NFPA-921 Update

18. APS-375 Terrorism Class; Guest Lecturer December 2, 1994
Topic: Update on Bombs and Explosives

19. Determining the Cause and Origin of Fire, Field Responsibilities; Garrard County Fire Department, Lancaster, KY, Kentucky Tech Fire Service Training; December 3, 1994

20. Live Fire Training; Garrard County Fire Department, Lancaster, KY, Kentucky Tech Fire Service Training; December 4, 1994

Conference and Continuing Education Programs (Attended)

Calendar Year 2006

1. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program
Eastern Kentucky University
Richmond, KY
March 14-18, 2006

2. International Association of Arson Investigators Annual Meeting
Denver, CO
April 1 - 3, 2006

3. National Fire Protection Association Annual Meeting
Orlando, FL
June 4 - 8, 2006

4. 2006 International Symposium on Fire Investigation Science and Technology
Cincinnati, OH
June 26-28, 2006

5. National Fire, Arson and Explosion Science and Technology Training Program
National Association of Fire Investigators
Sarasota, FL
August 6 - 9, 2006

6. National Seminar on Fire Investigation Litigation
National Association of Fire Investigators
Sarasota, FL
August 10-11, 2006

7. Canadian National Fire, Arson and Explosion Investigation Training Program
Toronto, Ontario, Canada
October 21 - 26, 2006

Calendar Year 2005

1. National Advanced Fire, Arson, and Explosion Investigation Science and Technology Program, Eastern Kentucky University; Richmond, KY
March 8-12, 2005

2. Fire Department Instructors Conference, Indianapolis, IN
April 13- 16, 2005

3. International Association of Arson Investigators Annual Meeting
Crystal City, VA April 24 - 27, 2005

4. National Fire Protection Association Annual Meeting
Las Vegas, NV June 5 - 8, 2005

5. National Fire, Arson and Explosion Science and Technology Training Program, National Association of Fire Investigators; Sarasota, FL
August 8 - 10, 2005

6. National Seminar on Fire Investigation Litigation, National Association of Fire Investigators; Sarasota, FL
August 11-12, 2005

Calendar Year 2004

1. OSHA-226 Confined Space Entry Course
Bakersfield, CA January 5-8, 2004

2. OSHA Disaster Site Worker Course and Train the Trainer Pilot Program
Kirkwood Community College, OSHA Training Institute, Ed Center
Cedar Rapids, IA March 23-26, 2004

3. International Association of Arson Investigators Annual Meeting
St. Louis, MO April 19-21, 2004

4. Fire Department Instructors Conference
Indianapolis, IN April 28 to May 1, 2004

5. OSHA 500 Construction Industry Standards Trainer Course
Eastern Kentucky University OSHA Training Institute, Ed Center
Richmond, KY May 4-7, 2004

6. OSHA 510 Construction Industry Standards Course
Eastern Kentucky University OSHA Training Institute, Ed Center
Richmond, KY May 11-14, 2004

7. National Fire Protection Association Annual Meeting
Salt Lake City, UT May 22-25, 2004

8. International Symposium on Fire Investigation
British Fire Service College, Moreton-in-Marsh, Gloucheshire, England, UK
June 27-30, 2004

9. InterFlam 2004
Edinburgh Conference Centre
Harriet Watts College of the University of Edinburgh
Edinburgh, Scotland
July 5-7, 2004

10 National Fire, Arson and Explosion Science and Technology Training Program, National Association of Fire Investigators; Sarasota, FL
August 9-11, 2004

11. National Seminar on Fire Investigation Litigation, National Association of Fire Investigators; Sarasota, FL
August 12-13, 2004

12. Vehicle Fire and Arson Investigation Science and Technology Training Program
National Association of Fire Investigators
Richmond, KY
September 26 - 29, 2004

13. Canadian National Fire, Arson and Explosion Investigation Training Program
Toronto, Ontario, Canada
October 22 - 27, 2004

14. National Fire Protection Association, Fall Meeting
Miami, FL
November 14-19, 2004

15. Technical Working Group Fire and Explosions (TWGFEX), 4th Annual Symposium on Fire and Explosion Investigation
Orlando, FL
November 21-22, 2004

Calendar Year 2003

1. Fire and Materials Conference, San Francisco, CA
January 27-29, 2003

2. Fire Department Instructors Conference, Indianapolis, IN
March 27-29, 2003

3. International Association of Arson Investigators Annual Meeting
Las Vegas, NV April 13-16, 2003

4. Governors Safety and Health Conference (Kentucky), Louisville, KY
May 7-9, 2003

5. National Fire Protection Association Annual Meeting, Dallas, TX
May 18-21, 2003

6. National Association of Fire Investigators, National Fire, Arson and Explosion Investigation Training Program; Sarasota, FL August 11-13, 2002

7. National Seminar on Fire Investigation Litigation, National Association of Fire Investigators; Sarasota, FL August 13-14, 2004

8. OSHA 201A Hazardous Materials Course, Georgia Institute of Technology; Atlanta, GA August 25-29, 2003

9. National Safety Congress, Chicago, IL
September 6-10, 2003

10. Vehicle Fire and Arson Investigation Science and Technology Training Program, National Association of Fire Investigators; Richmond, KY
October 1-3, 2003

11. Canadian National Fire, Arson and Explosion Investigation Training Program
Toronto, Ontario, Canada October 25-30, 2003

12. National Fire Protection Association, Fall Meeting, Reno, NV
November 21-19, 2003

13. Technical Working Group Fires and Explosions (TWGFEX), 3rd Annual Symposium on Fire and Explosions; Orlando, FL
November 21-22, 2003

Calendar Year 2002

1. Officers School, Green River Fire Fighters Association
Owensboro, KY February 16-17, 2002

2. Fire Department Instructors Conference, Indianapolis, IN
April, 2002

3. Governors Safety and Health Conference (Kentucky), Louisville, KY
May 8-10, 2002

4. National Fire Protection Association Annual Meeting, Minneapolis, MN
May 19-22, 2002

5. National Association of Fire Investigators, National Fire, Arson and Explosion Investigation Training Program; Sarasota, FL August 11-16, 2002

6. Fire Rescue International, International Association of Fire Chiefs; Dallas, TX
August 22-25, 2002

7. Kentucky Fire and Arson Investigation Program, Somerset Fire Department; Somerset, KY September 23-27, 2002

8. Vehicle Fire Instigation Science and Technology Program, National Association of Fire Investigators; Richmond, KY October 1-3, 2002

9. TWGFEX 2nd Annual Fire and Explosion Investigation Symposium, National Center for Forensic Science, University of Central Florida; Orlando, FL
October 16-18, 2002

10. Canadian National Fire and Explosion Investigation Conference
Toronto, Canada October 20- October 24, 2002.

11. National Fire Protection Association, Fall Meeting, Atlanta, GA
November 15-19, 2002

Calendar Year 2001

1. Post Blast Investigation, International Association of Arson Investigators and the FBI; Las Vegas, NV January 25-28, 2001

2. Officers School, Green River Firefighters Association; Owensboro, KY
February 17-18, 2001

3. Fire Department Instructors Conference, Indianapolis, IN
February 28 - March 4, 2001

4. EKU Rescue School, Richmond, KY
April 6-8, 2001

5. National Fire Protection Association Conference and Exposition, Anaheim, CA
May 13-17, 2001

6. National Association of Fire Investigators, National Fire, Arson and Explosion Investigation Training Program; Sarasota, FL July 22-27, 2001

7. TWGFEX 1st Annual Fire and Explosion Investigation Symposium, National Center for Forensic Science, University of Central Florida; Orlando, FL August 15-19, 2001

8. Vehicle Fire Investigation Seminar, International Association of Arson Investigators; Louisville, KY August 22 - 24, 2001

9. National Fire Protection Association Fall Meeting, Dallas, TX November 11 - 14, 2001

10. Canadian National Fire and Explosion Investigation Conference, Toronto, Canada October 27- November 1, 2001.

Calendar Year 2000

1. National Conference on Fire and Arson Litigation, National Association of Fire Investigators; Tampa, FL January 5-8, 2000

2. California Fire Prevention Officers Association, Monterey, CA February 9-12, 2000

3. International Society of Explosive Engineers Annual Conference, ISEE; Anaheim, CA February 13-16, 2000

4. Officers School, Green River Firefighters Association
Owensboro, KY February 19-20, 2000.

5. Fire Department Instructors Conference, Indianapolis, IN
March 2-4, 2000

6. EKU Rescue School, Richmond, KY; April 7-9, 2000

7. Kentucky International Association of Arson Investigators School
Somerset, KY May 1-5, 2000

8. Florida Advanced Fire and Arson Investigation Conference
Ft. Lauderdale, FL May 9-10, 2000

9. National Fire Protection Association Conference and Exposition
Denver, CO May 14-17, 2000

10. Indiana Chapter of the International Association of Arson Investigators State Meeting and Conference, Indianapolis, IN May 22-24, 2000

11. National Fire, Arson and Explosion Investigation Training Program
National Association of Fire Investigators; Hoffman Estates, IL July 24-28, 2000

12. Virginia Hazardous Materials Response Conference
Virginia Beach, VA September 27-30, 2000

13. Canadian National Fire and Explosion Investigation Conference
Toronto, Canada November 12-15, 2000

14. Virtual Fire Rescue Exposition, Internet Based;
November 22 – December 5, 2000

Calendar Year 1999

1. National Conference on Fire and Arson Litigation, National Association of Fire Investigators; Tampa, FL; January 6-9, 1999

2. EKU Rescue School, Richmond, KY; April 23-25, 1999

3. Governors Safety and Health Conference, Louisville, KY; May 5-7, 1999

4. National Fire Protection Association, Baltimore, MD; May 16-20, 1999

5. Florida Advanced Fire and Arson Investigation Conference, Ft. Lauderdale, FL; July 6-9, 1999

6. Firehouse Exposition, Baltimore, MD; July 21- 24, 1999

7. National Association of Fire Investigators, Hoffman Estates, IL; August 10 - August 13, 1999

8. Kentucky Blasters School, Trooper Island, KY; September 13 – 16, 1999

9. Colorado Fire and Arson Investigation Conference, Denver, CO; September 20 – 23, 1999

10. Canadian National Fire and Explosion Investigation Conference, Toronto, Canada; November 13-17, 1999

11. Virtual Fire Rescue Exposition, Internet; November 22 – December 5, 1999

Calendar Year 1998

1. Fire/Rescue West (California Fire Instructors Conference), San Jose, CA; April 19-22, 1998

2. Governors Safety and Health Conference, Louisville, KY; May 6, 1998

3. National Fire Protection Association, Cincinnati, OH; May 17-21, 1998

4. Firehouse Exposition, Baltimore, MD; July 15-18, 1998

5. National Association of Fire Investigators, Hoffman Estates, IL; July 27-August 2, 1998

6. Fire Rescue International (IAFC), Louisville, KY; September 12-16, 1998

7. ISFSI Fall Conference and Workshop, King of Prussia, PA; October 24-27, 1998

8. National Fire Protection Association Fall Meeting and Conference, Atlanta, GA; November 13 – 15, 1998

9. Canadian National Fire and Explosion Investigation Conference, Toronto, Canada; November 16-19, 1998

10. Kentucky Blasters Conference, Lexington, KY; December 2, 1998

Calendar Year 1997

1. Automatic Fire Alarm Association Annual Meeting and Educational Conference, Albuquerque, NM; March 4-6, 1997

2. Fire/Rescue West (California Fire Instructors Conference), San Jose, CA; April 1-3, 1997

3. Governors Safety and Health Conference, Louisville, KY; April 23, 1997

4. Fire Department Instructor's Conference, Indianapolis, IN; April 15-20, 1997

5. National Fire Protection Association, Los Angles, CA; May 19-21, 1997

6. National Association of Fire Investigators, Hoffman Estates, IL; July 28-August 1, 1997

7. Fire Rescue International (IAFC), Dallas, TX; august 25-27, 1997

8. International Conference in Fire Research for Fire Investigation, Baltimore, MD; November 12- 14, 1997

Calendar Year 1996

1. Iowa Society of Fire Service Instructors Annual Conference, Davenport, IA; January 5-7, 1996

2. Fire Department Instructors Conference; Indianapolis, IN; February 21-25, 1996

3. EKU Rescue School, Richmond, KY; April 20-21, 1996

4. Governors Safety and Health Conference, Louisville, KY; April 24-26, 1996

5. Annual Meeting, National Fire Protection Association, Boston, MA; May 19-22, 1996

6. Annual Meeting, National Association of Fire Investigators, Schaumburg, IL; July 29-August 2, 1996

7. Annual Meeting, International Association of Fire Chiefs, Kansas City, KS; August 24-27, 1996

8. Alaska Association of Arson Investigators Annual Meeting and Educational Program, Soldotna, AK; September 3-6, 1996

9. National Fire Protection Association, Fall Meeting, Nashville, TN; November 17-20, 1996

Calendar Year 1995

1. Hazardous Materials Conference, Orlando, FL; January 5-8, 1995

2. Fire Department Instructors Conference, Indianapolis, IN; February 1-8,1995

3. California Fire Instructors Conference, San Jose, CA; April 18-20, 1995

4. Hazardous Materials Conference, Orlando, FL; January 5-8, 1995

5. Fire Department Instructors Conference, Indianapolis, IN; February 1-8,1995

6. California Fire Instructors Conference, San Jose, CA; April 18-20, 1995

7. EKU Rescue School, Eastern Kentucky University Campus, Richmond, KY; April 21-23, 1995

8. Congressional Fire Services Dinner and Workshops, Congressional Fire Services Institute, Washington, DC; April 26, 1995

9. Annual Meeting, National Fire Protection Association, Denver, CO; May 20-24, 1995

10. Annual Meeting, National Association of Fire Investigators, Schaumburg, IL; July 31-August 5, 1995

11. Annual Meeting, International Association of Fire Chiefs, Louisville, KY; September 9-14, 1995

12. Fire Department Safety Officers Conference, Fire Department Safety Officers Association, St. Louis, MO; November 2-5, 1995

13. National Fire Protection Association, Fall Meeting, Chicago, IL; November 12-15, 1995

14. EKU Rescue School, Eastern Kentucky University Campus, Richmond, KY; April 21-23, 1995

15. Congressional Fire Services Dinner and Workshops, Congressional Fire Services Institute, Washington, DC; April 26, 1995

16. Annual Meeting, National Fire Protection Association, Denver, CO; May 20-24, 1995

17. Annual Meeting, National Association of Fire Investigators, Schaumburg, IL; July 31-August 5, 1995

18. Annual Meeting, International Association of Fire Chiefs, Louisville, KY; September 9-14, 1995

19. Fire Department Safety Officers Conference, Fire Department Safety Officers Association, St. Louis, MO; November 2-5, 1995

20. National Fire Protection Association, Fall Meeting, Chicago, IL; November 12-15, 1995

Calendar Year 1994

1. Florida Training Improvement Conference, Orlando FL; January 8 & 9, 1994

2. Fire Department Instructors Conference, Cincinnati, OH; March 23-30, 1994

3. Annual Meeting, National Fire Protection Association; San Francisco, CA; May 14-19, 1994

4. Interschutz; Der Rhote Hann: Hanover, Germany; June 3-8, 1994
This conference is conducted every 5 years and is one of the largest of the fire related conferences in the World. It lasts for 5 days and attracted over 150,000 attendees. Fire Protection and Emergency Service vendors from throughout the world are represented. During this conference materials from the Fire and Safety Engineering Technology Program were distributed.

5. Annual Meeting, National Association of Fire Investigators; Schaumburg, IL; July 25-29, 1994

6. Annual Meeting, International Association of Fire Chiefs; St. Louis, MO; August 27-31, 1994

7. Professional Qualifications Committee Meeting and Workshop, National Fire Protection Association; Snowbird, UT; October 20-23, 1994

8. Fire Department Safety Officers Conference, Fire Department Safety Officers Association; St. Louis, MO; November 4-6, 1994

9. Fire Officers Retreat, Fire Officers Association, Lake Tahoe, NV; November 11-13, 1994

Part III: Awards and Publications:

1. “Man of the Year”, National Association of Fire Investigators, awarded September 1987

2. Building Construction related to the Fire Service, Stillwater, OK; 1986, International Fire Service Training Association. Validation Committee and contributing author.

3. “Terror Tactics” Chief Fire Executive, Vol 1, No 2 June/July 1986

4. “Confined Space Rescue Techniques”; Fire and Safety Engineering Technology, Eastern Kentucky University, Hopkins, Ron; 1988 (Course Manual)

5. “Self-Contained Breathing Apparatus and Confined Space Rescue Techniques”; Fire and Safety Engineering Technology, Eastern Kentucky University, Hopkins, Ron; 1989 (Course Manual)

6.”Self-Contained Breathing Apparatus”; Fire and Safety Engineering Technology, Eastern Kentucky University, Hopkins, Ron; 1990 (Course Manual)

7. “Large Area Search and Rescue”; Fire and Safety Engineering Technology, Eastern Kentucky University, Hopkins, Ron; 1990 (Course Manual)

8. “Training Competencies and Performance Log for the Certified Trainer”; International Society of Fire Service Instructors, 1992, Hopkins, Ron

9. “EMACS Trainer, Course Participants Manual”, Institute for Emergency Management Education, 1993, Hopkins, Ron

10. “EMACS Trainer, Course Guide”, Institute for Emergency Management Education, 1993, Hopkins, Ron

11. “Certified Fire Investigator Instructor, Course Guide” Abney and Hopkins Fire Protection and Safety Consultants, Ltd., 1993, Hopkins, Ron

12. “Certified Fire Investigator Instructor, Course Participants Manual”, Abney and Hopkins Fire Protection and Safety Consultants, Ltd., 1993, Hopkins, Ron

13. “Industrial Emergency Management Requires More than Lucky Breaks”, Occupational Health & Safety, March 1993, Hopkins, Ron and Blair, Earl

14. “Permit-Required Confined Space, Course Guide”, Abney and Hopkins Fire Protection and Safety Consultants, Ltd., January 1994, Hopkins, Ron

15. “Permit-Required Confined Space, Participants Manual”, Abney and Hopkins Fire Protection and Safety Consultants, Ltd. January 1994, Hopkins, Ron

16. “Depth of Calcination Measurement In Fire Origin Analysis”, January 2003, Hopkins, Ron, Kennedy Katherine, Kennedy, Patrick

17. “An Analysis Of Issues And Solutions For The Management Of Fire Investigations At Major Incidents”, July 2004, Hopkins, Ron

18. Fire Science Educators and Technology Section, National Fire Protection Association Service Award, Presented at the 2005 NFPA Annual Meeting, Las Vegas, NV