

# **Michael J. Schulz, M.S.**

## ***President/Principal Consultant***

**M.J. Schulz & Associates, Inc.**  
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### **Curriculum Vitae**

**January 1, 2020**

#### **PROFESSIONAL BACKGROUND**

Currently tasked in Metropolitan Sacramento, M.J. Schulz & Associates, Inc. is an internationally known consulting firm focusing on safety, security and emergency management issues with a specialized emphasis in the investigation and analysis of hostile fire and explosion incidents.

As the President and Principal Consultant, he has been in practice for over forty-one years and has consulted in the United States, Canada, Mexico, Puerto Rico and Europe. During that forty-one-year professional career, he has served as a civil defense officer, municipal law enforcement officer, fire department command officer, private consultant and college professor.

He holds a Master of Science (M.S.) in Safety, Security and Emergency Management from Eastern Kentucky University and a Bachelor of Science (B.S.) in Fire and Safety Engineering Technology from the University of Cincinnati. He is currently pursuing his Doctor of Philosophy (Ph.D.) in Public Policy and Administration with a specialization in Emergency Management from Walden University.

He maintains current educational and experiential proficiency as required by National Fire Code NFPA 1033, Sections 1.3.7 and 1.3.8, in investigation technology, fire protection technology and code requirements and, more specifically, fire science, fire chemistry, thermodynamics, thermometry, fire dynamics, explosion dynamics,

computer fire modeling, fire investigation, fire analysis, fire investigation methodology, fire investigation technology, hazardous materials and failure analysis and analytical tools through the professional education and training enumerated herein.

In addition to his consulting practice, he developed and previously served as the Program Director for the Master of Arts (M.A.) in Emergency Management Leadership Graduate Program at Adler University in Chicago, Illinois. Besides his academic responsibilities, he also previously served as Chairman of the institution's Program Development Committee, which is responsible for the academic design and approval process of all new or revised academic programs, concentrations and tracts. More recently he was appointed by the institution's President to serve on the Strategic Planning Committee.

His specialized emphasis and participation in the field of fire and explosion investigation and analysis has spanned most of his professional career.

He is a graduate of the United States Fire Administration's National Fire Academy (NFA) in Emmitsburg, Maryland, where he completed the Fire and Arson Investigation residency program.

He was a charter member of the National Fire Protection Association's (NFPA) Technical Committee on Fire Investigations having been appointed to the committee at the time of its formation by the National Fire Protection Association's Standards Council. During his seventeen (17) year tenure as a principal member of the technical committee, he made significant contributions to both the National Fire Code 907M, entitled Manual for the Determination of Electrical Fire Causes, and the National Fire Code 921, entitled Guide for Fire and Explosion Investigations. He continued to serve on the committee as an alternate member for many years thereafter.

He also served as a member of both the International Fire Service Training Association (IFSTA) Fire Investigator and Fire Origin and Cause Material Review Committees. The Material Review Committees are responsible for the continuing review and revision of the Association's publications, entitled, Fire Investigator and Fire Origin and Cause.

He has served as a consultant to the federal government, including the Federal Emergency Management Agency's, United States Fire Administration's National Fire Academy, state governments and local governments. Recently, he was retained as an expert in the field of fire and explosion investigation and analysis by the Illinois Attorney General's Office and the Illinois State Fire Marshal's Office in federal litigation to which the State of Illinois was a party.

More recently, he was selected as an instructor for the Canadian Province of Ontario's Technical Standards and Safety Authority (TSSA) and previously be the U.S Consumer Product Safety Commission (CPSC) to provide training to the Commission's product safety field investigation staff.

He has particular expertise in the forensic investigation and analysis of motor vehicle fires of all types including post-collision motor vehicle fire incidents. Throughout his career, has endeavored to enhance his professional education, knowledge and investigative skills through various academic achievements including, but not limited to the following:

- Certified Vehicle Fire Investigator (CFVI)  
National Certification Board  
National Association of Fire Investigators
- Fire Investigation for Fire Officers Multi-Program with Concentration in Motor Vehicles  
International Association of Arson Investigators and CFITrainer.net
- Traffic Accident Investigation  
Northwestern University Traffic Institute
- Instructor – Motor Vehicle Fire Investigation  
National Certification Board  
National Association of Fire Investigators
- Instructor – Motor Vehicle Fire Investigation  
National Fire Protection Association

Given his keen understanding of fire behavior and fire dynamics, he has often been asked to consult on the investigation and analysis of major wildland fire incidents. Those historical wildland fire incidents included:

- Chariot Fire, San Diego County, July, 2013
- Witch Creek Fire, San Diego County, November, 2017

More recently, he was retained by the Plaintiffs Steering Committee (PSC) overseeing the comprehensive North Bay Wildland Fires litigation in Northern California which was comprised of a number of different wildland fire incidents. At the time of settlement of that litigation, he was actively assisting in the development of demonstrative trial exhibits to be utilized in the Tubbs Fire civil trial as part of that assignment. Those incidents included:

- Wall Fire, Butte County, July, 2017
- Tubbs Fire, Napa/Sonoma County, October, 2017
- Redwood Valley Fire, Mendocino County, October 2017
- Atlas Fire, Napa County, October, 2017
- Sulphur Fire, Lake County, October, 2017
- Cascade Fire, Yuba County, October, 2017
- Cherokee Fire, Butte County, October, 2017
- Patrick Fire, Napa County, October, 2017

- Nuns Fire, Napa County, October, 2017
- LaPorte Fire, Butte County, October, 2017
- Lobo Fire, Butte County, October, 2017
- McCourtney Fire, Butte County, October 2017
- Honey Fire, Butte County, October 2017
- Pocket Fire, Sonoma County, October, 2017
- Pythian Fire, Sonoma County, October 2017
- 37 Fire, Sonoma County, October, 2017
- Camp Fire, Butte County, November, 2018

Most recently, he was retained by a consortium of multiple clients to also consult on the investigation and analysis of a series of wildland fire incidents and associated debris flows which occurred in Southern California over a period of two years. Those incidents include:

- Mission Fire/Madera County, September, 2017
- Thomas Fire, Ventura County, December, 2017
- Koenigstein Fire, Ventura County, December, 2017
- Creek Fire, Los Angeles County, December, 2017
- Holiday Fire, Santa Barbara County, July, 2018
- Woolsey Fire, Ventura County, October, 2018
- Getty Fire, Los Angeles County, October, 2019

He holds national registration as a National Board Certified Fire and Explosion Investigator (CFEI), a National Board Certified Vehicle Fire Investigator (CVFI) and a National Board Certified Fire Investigation Instructor (CFII) through the National Association of Fire Investigators' National Certification Board. He also holds international registration as a Certified Canadian Fire Investigator (CCFI) through the Canadian Association of Fire Investigators' National Certification Committee. He also holds national registration as a Certified Fire Protection Specialist (CFPS) through the National Fire Protection Association and the Certified Fire Protection Specialist Board.

His professional affiliations include the National Fire Protection Association (NFPA), the American Society of Safety Engineers (ASSE), the National Fire Academy Alumni Association (NFAAA), the National Association of Fire Investigators (NAFI), the International Association of Arson Investigators (IAAI), the Illinois Chapter of International Association of Arson Investigators (IL-IAAI), the California Conference of Arson Investigators (CCAI), the Canadian Association of Fire Investigators (CAFI), the Society of Fire Protection Engineers (SFPE), the American Society for Testing and Materials (ASTM), the Society of Automotive Engineers (SAE) and the American Radio Relay League (ARRL).

His academic affiliations include the Phi Kappa Phi Honors Society, the University of Cincinnati Alumni Association and the Eastern Kentucky University Alumni Association.

## **FORMAL EDUCATION**

Walden University, Minneapolis, MN  
Pending – Doctor of Philosophy (PhD) in Public Policy and Administration –  
Emergency Management

Eastern Kentucky University, Richmond, KY  
Master of Science (M.S.) in Safety, Security and Emergency Management  
Honors: 4.0 Cumulative GPA  
December, 2012

University of Cincinnati, Cincinnati, OH  
Bachelor of Science (B.S.) in Fire and Safety Engineering Technology  
Honors: Magna cum Laude  
June, 1996

University of Cincinnati, Cincinnati, OH  
Certificate in Fire Science  
United States Fire Administration Open Learning Fire Service Program  
June, 1996

## **PROFESSIONAL EXPERIENCE**

M.J. Schulz & Associates, Inc., Roseville, CA  
President – Principal Consultant  
Private Consulting Firm

Adler University, Chicago, Illinois  
Professor/Program Director  
Emergency Management Leadership Program

Foundations of Emergency Management (EML 500)

Law and Politics of Emergency Management (EML 501)

Supporting Functional Needs Populations in Disasters (EML 502)

Disaster Response, Recovery and Continuity (EML 503)

Psychology of Terrorism (EML 504)

Leading in Times of Disaster (EML 505)

Essentials of Effective Communication (EML 506)

Research Methods for Leaders in Emergency Management (EML 507)

Group, Organization and System Development (EML 508)

Private Sector Emergency Management Strategies (EML 509)

Disaster Mental and Behavioral Health Applications in Emergency Management (EML 510)

Emerging Issues in Emergency Management and Homeland Security (EML 511)

Capstone Project (EML 512)

Adler University, Chicago, Illinois  
Professor  
Police Psychology Program

Psychology of Leadership (MAP 757)

DuPage County Amateur Radio Emergency Service, Wayne, Illinois  
Emergency Coordinator  
Auxiliary Emergency Communications Team

William Rainey Harper Community College, Palatine, Illinois  
Adjunct Instructor  
Fire Science Program  
Principles of Fire Prevention IV

SCS Research Group, Rolling Meadows, Illinois  
Consultant  
Private Consulting Firm

John A. Kennedy & Associates, Inc., Hoffman Estates, Illinois  
Senior Staff Expert  
Private Consulting Firm

Cedarburg Police Department, Cedarburg, Wisconsin  
Municipal Police Officer  
Municipal Police Department

Cedarburg Fire Department, Cedarburg, Wisconsin  
Captain – Fire Prevention Company  
Municipal Fire Department

Milwaukee Area Technical College, Milwaukee, Wisconsin  
Adjunct Instructor  
Fire Science Program

Fire Investigation

Milwaukee Area Technical College, Milwaukee, Wisconsin  
Adjunct Instructor  
Police Science Program

Arson Investigation

## **PROFESSIONAL CERTIFICATES**

University of Cincinnati, Cincinnati, OH  
Certificate in Fire Science  
United States Fire Administration Open Learning Fire Service Program  
June, 1996

Principles of Fire Investigation Multi-Program  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Investigation for Fire Officers Multi-Program with Concentration in  
Motor Vehicles  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Investigation for Fire Officers Multi-Program with Concentration in  
Youth Set Fires  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

## **CURRENT PROFESSIONAL CERTIFICATIONS/DESIGNATIONS**

Certified Fire Protection Specialist (CFPS)  
Certified Fire Protection Specialist Board  
National Fire Protection Association

Certified Fire and Explosion Investigator (CFEI)  
National Certification Board  
National Association of Fire Investigators

Certified Vehicle Fire Investigator (CFVI)  
National Certification Board  
National Association of Fire Investigators

Certified Fire Investigation Instructor (CFII)  
National Certification Board  
National Association of Fire Investigators

Canadian Certified Fire Investigator (CCFI)  
National Certification Committee  
Canadian Association of Fire Investigators

Professional Development Series Certification (PDS)  
Illinois Emergency Management Agency

Communications Unit Leader (COML)  
Department of Homeland Security  
Federal Emergency Management Agency/Office of Emergency  
Communications

Auxiliary Emergency Communicator (AEC)  
Department of Homeland Security  
Federal Emergency Management Agency/Office of Emergency  
Communications

## **PREVIOUS PROFESSIONAL CERTIFICATIONS/DESIGNATIONS**

Certified Fire Service Instructor II  
Board of Vocational, Technical and Adult Education  
State of Wisconsin

Certified Fire Service Instructor I  
Board of Vocational, Technical and Adult Education  
State of Wisconsin

Certified Emcomm Field Instructor (FI)  
Continuing Education Program  
American Radio Relay League



Certified Emcomm Field Examiner (FE)  
Continuing Education Program  
American Radio Relay League

## **PROFESSIONAL BUSINESS LICENSURES**

Registered Class 1 Private Detective Agency  
License Number 117001067  
Department of Financial and Professional Regulation  
State of Illinois

Registered Class A Private Detective  
License Number 115-001562  
Department of Financial and Professional Regulation  
State of Illinois

Registered Permanent Employee  
Registration Card Number 129-117390  
Department of Financial and Professional Regulation  
State of Illinois

Class A Investigation Company  
License Number A 10054  
Department of Public Safety  
State of Texas

Owner/Manager  
License Number A 10054  
Department of Public Safety  
State of Texas

## **PROFESSIONAL COMMUNICATIONS LICENSURE**

Federal Communications Commission, Washington, D.C.  
Amateur Extra Class: Call Sign - W9MJS  
FRN 0009322181

Federal Communications Commission, Washington, D.C.  
GMRS: Call Sign - WQIR430  
FRN 0009322181

Federal Communications Commission, Washington, D.C.  
Club: Call Sign - W9DPA  
FRN 009322181

## **NATIONAL FIRE ACADEMY GRADUATE**

Fire and Arson Investigation, Emmitsburg, Maryland  
United States Fire Administration  
Residency Program

Selection, acceptance and an invitation to the National Fire Academy is achieved by an evaluation of qualifications, training and experience and by the successful completion of a comprehensive nomination and application process. His nomination was submitted and endorsed by both the municipal police department and municipal fire department in the jurisdiction in which he served following his graduation. He was one of a limited number of municipal law enforcement officers from his state to have been selected and invited to attend.

## **NATIONAL FIRE ACADEMY FIELD PROGRAM**

Fire/Arson Detection, Emmitsburg, Maryland  
United States Fire Administration  
Train-the-Trainer Program

Having completed the requisite Train-the-Trainer coursework, he has served as a field instructor for the National Fire Academy's Field Program entitled, "Fire/Arson Detection." In that capacity, he has trained hundreds of law enforcement and fire service personnel.

## **CONSULTANT TO FEDERAL EMERGENCY MANAGEMENT AGENCY**

United States Fire Administration, Emmitsburg, Maryland  
Arson Prevention Act of 1994 Working Group  
Content Expert

He was contracted to serve as a training course Content Expert directing and overseeing the revision of current federal fire investigation training programs administered by the United States Fire Administration's National Fire

Academy, as well as the development of a new federal fire investigation training program as part of the mandates by the United States Congress under the Arson Prevention Act of 1994. In that capacity, he was selected to serve as a chairman of one of the two working task groups.

United States Fire Administration, Emmitsburg, Maryland  
National Symposium for Arson Prevention and Control  
Delegate

He was also selected as one of only sixty delegates from across the nation to the United States Fire Administration and National Fire Academy's National Symposium for Arson Prevention and Control, held in Emmitsburg, Maryland in July 1995. The symposium serves to advise the United States Fire Administration and its National Fire Academy on the goals and objectives of their respective arson prevention and control programs.

## **CODES AND STANDARDS DEVELOPMENT PROCESS PARTICIPANT**

Technical Committee on Fire Investigators  
National Fire Protection Association  
Principal Committee Member

Fire Origin and Cause Material Review Committee  
International Association of Fire Service Instructors  
Principal Committee Member

Fire Investigator Material Review Committee  
International Association of Fire Service Instructors  
Principal Committee Member

Technical Committee on Fire Investigations  
National Fire Protection Association  
Alternate Committee Member

He has extensive knowledge in the development, interpretation and application of laws, codes, standards, and recommended practices that focus on issues arising from the investigation and analysis of fires and explosions.

During his tenure with the fire service, he was responsible for supervising a municipal fire department's code development, fire inspection and code enforcement activities. He was also assigned to a mayoral task group that developed and implemented a revised municipal fire prevention code. During that assignment, he authored many portions of that new fire prevention code.

His involvement in the codes and standards making process provides him with a unique and specialized insight into the development, interpretation and application of such laws, codes, standards and recommended practices.

His professional training, education and experience include, but is not limited to, the interpretation and application of such codes and standards as the following:

- National Fire Protection Association (NFPA)
- American National Standards Institute (ANSI)
- International Code Council (ICC)
- Building Officials and Code Administrators International (BOCA)
- Southern Building Code Congress International (SBCCI)
- International Code and Buildings Officials (ICBO)
- American Insurance Institute (AIA)
- American Society for Testing and Materials (ASTM)
- Underwriter's Laboratories, Incorporated (UL)
- Canadian Standards Association (CSA)
- National Institute of Standards and Technology (NIST)
- Code of Federal Regulations (CFR)
- Occupational Safety and Health Administration (OSHA)
- Department of Transportation (DOT)
- Consumer Products Safety Commission (CPSC)
- Airline Transport Association (ATA)

## **CONTINUING LAW ENFORCEMENT EDUCATION**

Wisconsin Certified Law Enforcement Officer Training  
State of Wisconsin, Department of Justice, Training and Standards Board  
March, 1979

Death Investigation  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
September, 1979

Police In-Service Recertification  
Milwaukee Area Technical College  
1980

Police In-Service Recertification  
Milwaukee Area Technical College  
1981

Police In-Service Recertification  
Milwaukee Area Technical College  
1982

Police In-Service Recertification  
Milwaukee Area Technical College  
1983

Police In-Service Recertification  
Milwaukee Area Technical College  
1984

Effective Use of Photography as Legal Evidence  
University of Wisconsin, Department of Engineering and Applied Science  
May, 1985

Police In-Service Recertification  
Milwaukee Area Technical College  
1985

Police In-Service Recertification  
Milwaukee Area Technical College  
1986

Police In-Service Recertification  
Milwaukee Area Technical College  
1987

Police In-Service Recertification  
Milwaukee Area Technical College  
1988

Police In-Service Recertification  
Milwaukee Area Technical College  
1989

Traffic Accident Investigation  
Northwestern University Traffic Institute  
September, 2000

## **CONTINUING FIRE SERVICE EDUCATION**

Crash Injury Management Technician  
Waukesha Area Technical College  
March, 1979

Basic Course on Handling Hazardous Materials Emergency Incidents  
State of Wisconsin, Board of Vocational, Technical and Adult Education  
February, 1981

Basic Fire Fighting (Firefighter I)  
Milwaukee Area Technical College  
December, 1981

Emergency Medical Technician Certification  
Emergency Medical Technician Training Consortium  
February, 1982

Advanced Fire Fighting (Firefighter II)  
Milwaukee Area Technical College  
March, 1982

Search and Rescue  
International Society of Fire Service Instructors  
September, 1982

Fire Ground Commander  
National Fire Protection Association  
October, 1982

Operating Fire Department Apparatus  
Milwaukee Area Technical College  
April, 1983

EMS Communications  
Moraine Park Technical Institute  
August, 1983

Company Officer Leadership  
Association of Ozaukee County Fire Departments  
March, 1984

Certified Fire Inspector Training  
State of Wisconsin, Department of Industry, Labor and Human Relations  
March, 1986

Fire Department Instructors Conference  
International Association of Fire Service Instructors  
March, 1991

Fire Case Studies Symposium: Office High-Rise Fire Safety  
National Fire Protection Association, Montreal  
November, 1991

Fire Codes and Standards Forum  
Fire Marshal's Association of North America  
November, 1991

Fire Department Instructors Conference  
International Society of Fire Service Instructors  
April, 1992

## **CONTINUING FIRE AND EXPLOSION INVESTIGATION AND ANALYSIS EDUCATION**

15th Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1980

Arson Investigation  
American Policy Academy  
January, 1981

Automobile Fire Investigation  
Badger Firemen's Association  
March, 1981

Fire/Arson Detection  
United States Fire Administration's National Fire Academy Field Program  
May, 1982

17th Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1982

Fire and Arson Investigation  
Milwaukee Area Technical College  
April, 1983

18th Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1983

Arson Investigation  
Milwaukee Area Technical College  
February, 1984

35th Annual I.A.A.I. Training Conference  
International Association of Arson Investigators, Clearwater Beach  
April, 1984

Arson Investigation  
Hillsborough Community College  
April, 1984

Fire/Arson Detection  
Wisconsin Board of Vocational, Technical and Adult Education  
May, 1984

19th Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1985

Fire Investigation  
Milwaukee Area Technical College  
September, 1984

20th Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1985

Determining the Cause and Origin of Fires and Explosions  
National Association of Fire Investigators  
August, 1985



Fire and Arson Investigation  
United States Fire Administration's National Fire Academy  
June, 1986

21st Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1986

Determining the Cause and Origin of Fires and Explosions  
National Association of Fire Investigators  
August, 1986

22nd Annual Wisconsin Arson Training Seminar  
State of Wisconsin, Department of Justice, Division of Criminal Investigation  
and the Wisconsin Chapter of the International Association of Arson  
Investigators  
June, 1987

Determining the Cause and Origin of Fires and Explosions  
National Association of Fire Investigators, Chicago  
August, 1987

Determining the Cause and Origin of Fires and Explosions  
National Association of Fire Investigators  
September, 1988

Arson-For-Profit Investigative Techniques Seminar  
United States Department of the Treasury, Bureau of Alcohol, Tobacco and  
Firearms  
January, 1989

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1989

National Conference on Fire Investigation Instruction  
National Association of Fire Investigator  
January, 1990

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
March, 1990

Fire Investigation Training Seminar  
University of Southern Mississippi  
June, 1990

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1990

Fire Litigation and Explosion Investigation Training Seminar  
HMR Fire Technology Institute  
September, 1990

1st Annual Fire and Explosion Investigation Training Program  
Sacramento County Fire Investigation Unit  
November, 1990

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
April, 1991

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1991

Fire Investigation and Analysis  
Fire Science and Technology Educators Section Program  
National Fire Protection Association  
November, 1991

Advanced Fire Scene Analysis  
National Fire Protection Association  
February, 1992

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
March, 1992

Human Behavior Task Group Meeting  
National Fire Protection Association  
April, 1992

Mathematical Computer Fire Modeling, Special Tutoring Program  
National Institute of Standards and Technology  
June, 1992

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1992

FPETool and Hazard I User's Conference  
National Institute of Standards and Technology  
October, 1992

Fire Investigation and Analysis  
National Fire Protection Association  
Fire Science and Technology Educator's Section  
November, 1992

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
March, 1993

Conference on Community College Fire Science and Technology Core  
Curriculum  
National Fire Protection Association  
September, 1993

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1993

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
March, 1994

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1994

Rocky Mountain Fire, Arson and Explosion Investigation Training Program  
Aurora Fire Department  
January, 1995

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1995

Washington State Chapter of the International Association of Arson  
Investigators' Annual Training Seminar  
September, 1995

Colorado Association of Property and Evidence Technicians' Annual Training Seminar  
September, 1995

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 1995

Fire Science and Technology Educators' Section Program  
National Fire Protection Association  
November, 1995

Eastern Kentucky University's National Advanced Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
March, 1996

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1996

Eastern Kentucky University's National Advanced Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
March, 1997

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
July, 1997

Texas Fire, Arson and Explosion Investigation Training Symposium  
Missouri City Fire Department and Texas A & M University  
September, 1997

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
July, 1998

Texas Fire, Arson and Explosion Investigation Training Symposium  
Missouri City Fire Department and Texas A & M University  
August, 1998

Investigation of Motor Vehicle Fires  
Lee S. Cole & Associates, Incorporated  
November, 1998

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
November, 1998

National Seminar on Fire Analysis Litigation  
National Association of Fire Investigators  
January, 1999

Eastern Kentucky University's National Advanced Fire, Arson and Explosion  
Investigation Training Program  
National Association of Fire Investigators  
April, 1999

Florida Fire & Explosion Investigation Symposium  
National Association of Fire Investigators  
July, 1999

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 1999

Canadian National Fire, Arson and Explosion Investigation Training  
Program  
National Association of Fire Investigators  
November, 1999

National Seminar on Fire Analysis Litigation  
National Association of Fire Investigators  
January, 2000

Canadian National Fire, Arson and Explosion Investigation Training  
Program  
National Association of Fire Investigators  
November, 2000

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2001

Canadian National Fire, Arson and Explosion Investigation Training  
Program  
National Association of Fire Investigators  
October, 2001

Eastern Kentucky University's National Advanced Fire, Arson and Explosion  
Investigation Training Program  
National Association of Arson Investigators  
April, 2002

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2002

National Seminar on Fire Analysis Litigation  
National Association of Fire Investigators  
January, 2002

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
September, 2002

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2002

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2003

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
October, 2003

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2003

Eastern Kentucky University's National Advanced Fire, Arson and Explosion  
Investigation Training Program  
National Association of Fire Investigators  
March, 2004

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2004

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
September, 2004

Canadian National Fire, Arson and Explosion Investigation Training  
Program  
National Association of Fire Investigators  
October, 2004

Eastern Kentucky University's National Advanced Fire, Arson and Explosion  
Investigation Training Program  
National Association of Fire Investigators  
March, 2005

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2005

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
September, 2005

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2005

Eastern Kentucky University's National Advanced Fire, Arson and Explosion  
Investigation Training Program  
National Association of Fire Investigators  
March, 2006

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2006

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2006

Investigating Motor Vehicle Fires  
International Association of Arson Investigators and CFITrainer.net  
November 2006

Digital Photography and the Fire Investigator  
International Association of Arson Investigators and CFITrainer.net  
November, 2006

Ethics and the Fire Investigator  
International Association of Arson Investigators and CFITrainer.net  
November, 2006

Fire Investigator Scene Safety  
International Association of Arson Investigators and CFITrainer.net  
November 2006

Fire Dynamics Calculations  
International Association of Arson Investigators and CFITrainer.net  
December, 2006

Insurance and the Fire Investigation  
International Association of Arson Investigators and CFITrainer.net  
January, 2007

An Analysis of the Station Nightclub Fire  
International Association of Arson Investigators and CFITrainer.net  
January, 2007

The Scientific Method for Fire and Explosion Investigation  
International Association of Arson Investigators and CFITrainer.net  
January, 2007

MagneTek: A Case Study in the Daubert Challenge  
International Association of Arson Investigators and CFITrainer.net  
February, 2007

Eastern Kentucky University's National Advanced Fire, Arson and Explosion  
Investigation Training Program  
National Association of Fire Investigators  
March, 2007

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
August, 2007

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
September, 2007



Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2007

Introduction to Evidence  
International Association of Arson Investigators and CFITrainer.net  
December, 2007

Critical Thinking Solves Cases  
International Association of Arson Investigators and CFITrainer.net  
December, 2007

Introduction to Fire Dynamics and Modeling  
International Association of Arson Investigators and CFITrainer.net  
December, 2007

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
March, 2008

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2008

Saudi Aramco Fire, Arson and Explosion Investigation Training Program  
Trace Fire Safety Consultants and the National Association of Fire  
Investigators  
November, 2008

Fire and Explosion Investigations: Utilizing NFPA 1033 and 921  
International Association of Arson Investigators and CFITrainer.net  
February, 2009

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
March, 2009

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
September, 2009

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2009

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
March, 2010

Saudi Aramco Fire, Arson and Explosion Investigation Training Program  
Trace Fire Safety Consultants and the National Association of Fire  
Investigators  
August 2010

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2010

Residential Electricity for Fire Investigators  
Fire Findings Laboratories  
April, 2011

Dust Explosion Hazards  
National Fire Protection Association  
May, 2011

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
September, 2011

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2011

Northern Zone Fire Investigation Seminar  
Illinois Chapter of the International Association of Arson Investigators  
January, 2012

Writing the Initial Origin and Cause Report  
International Association of Arson Investigators and CFITrainer.net  
July, 2012

The Fire Investigator and the 2011 NFPA 921 Changes  
International Association of Arson Investigators and CFITrainer.net  
July, 2012

How First Responders Impact the Fire Investigation  
International Association of Arson Investigators and CFITrainer.net  
July, 2012

Effective Investigation and Testimony  
International Association of Arson Investigators and CFITrainer.net  
July, 2012

Wildland Fire Investigations  
International Association of Arson Investigators and CFITrainer.net  
July, 2012

Explosion Dynamics  
International Association of Arson Investigators and CFITrainer.net  
August, 2012

Search and Seizure  
International Association of Arson Investigators and CFITrainer.net  
August, 2012

The Practical Application of the Relationship between NEPA 1033 and NEPA  
921  
International Association of Arson Investigators and CFITrainer.net  
August, 2012

29<sup>th</sup> Annual Fire Investigation Training Conference  
Illinois Chapter of the International Association of Arson Investigators  
September, 2012

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2012

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2013

Technical Standards and Safety Administration Fire Investigation Seminar  
Trace Fire & Safety  
September, 2014

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2014

Understanding Your Role in Fire Data  
National Association of State Fire Marshals Foundation  
November, 2014

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
October, 2015

Vacant and Abandoned Buildings: Hazards and Solutions  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Accreditation, Certification and Certificates  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Understanding the Fire Investigator's Job: A Guide for Non-Investigators  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Physical Evidence at the Fire Scene  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Documenting the Event  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

The Importance of Electronic Evidence in Fire Cases  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Motive, Means and Opportunity: Determining Responsibility in an Arson Case  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Using Resources to Validate Your Hypothesis  
International Association of Arson Investigators and CFITrainer.net  
February, 2018

Engineering Tools for Wildland Fire Investigation: Fire Pattern Indicators to  
Power Line Ignition and Safety  
International Association of Arson Investigators  
May, 2018

Wildland Fire Scene Origin & Cause Investigation Methodology  
International Association of Arson Investigators  
May, 2018

Wildland Fire Scene Ignition Factors & Sources  
International Association of Arson Investigators  
May, 2018

An Analysis of Powerline Causation Issues in the Wildland Fire Investigation  
Context  
International Association of Arson Investigators  
May, 2018

Utah Chapter IAAI Annual Training Seminar  
Utah Chapter of the International Association of Arson Investigators  
February, 2019

Smoke, Roads and Safety  
RT-130 Wildland Fire Safety Training Annual Refresher (WFSTAR)  
National Wildfire Coordinating Group  
March, 2019

2018 Wildfire Summary  
RT-130 Wildland Fire Safety Training Annual Refresher (WFSTAR)  
National Wildfire Coordinating Group  
April, 2019

Watchout Situations  
RT-130 Wildland Fire Safety Training Annual Refresher (WFSTAR)  
National Wildfire Coordinating Group  
April, 2019

LCES (Lookouts, Communications, Escape Routes, and Safety Zones)  
RT-130 Wildland Fire Safety Training Annual Refresher (WFSTAR)  
National Wildfire Coordinating Group  
April, 2019

Standard Firefighting Orders  
RT-130 Wildland Fire Safety Training Annual Refresher (WFSTAR)  
National Wildfire Coordinating Group  
April, 2019

Camp Fire Field Tour  
California Board of Forestry and Fire Protection  
August, 2019

Fuel Explosions – An Overview of Natural Gas and Propane Systems and  
How They Are Related to Fire Causes  
Canadian Association of Fire Investigators  
September, 2019

Charting Your Career Path in Fire Investigation  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Flow Analysis  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Understanding Undetermined  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Introduction to Youth-Set Fires  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Legal Aspects of Investigating Youth-Set Fires  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Motor Vehicles: The Engine and the Ignition, Electrical Systems and Fuel  
Systems  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Motor Vehicles: Transmission, Exhaust, Brake and Accessory Systems  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Investigation for Fire Officers  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fundamentals of Interviewing  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

NFPA 1033 and Your Career  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Critical Evaluation and Testing of Commonly Reported Accidental Causes  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Residential Electrical Systems  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Residential Natural Gas Systems  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Chemistry  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Principles of Fire Investigation Multi-Program  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Investigation for Fire Officers Multi-Program with Concentration in  
Motor Vehicles  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Fire Investigation for Fire Officers Multi-Program with Concentration in  
Youth Set Fires  
International Association of Arson Investigators and CFITrainer.net  
December, 2019

Barn Fires – Causes and Methods on Investigating  
Canadian Association of Fire Investigators  
December, 2019

## **CONTINUING SAFETY EDUCATION**

Flammable Gases Seminar  
National Fire Protection Association  
November, 1991

The Role of Warnings and Instructions  
College of Engineering, Department of Professional Engineering  
Development, University of Wisconsin  
March, 1995

The Role of Hazard Analysis Techniques in Evaluating Product Safety  
College of Engineering, Department of Professional Engineering  
Development, University of Wisconsin  
April, 1998

Hotel Fire Safety Act  
National Fire Protection Association  
Lodging Section Program  
November, 1992

Underground Storage Tank Management - Conducting A Hydrological  
Investigation of Gasoline Tank Leakage  
Hazardous Materials and Environmental Management Conference  
March, 1993

OSHA Respirator Protection Training  
Safety Unlimited, Inc.  
October, 2017

A2 Respirator Basics  
ClickSafety  
October, 2017

Hazardous Waste Operations and Emergency Response  
Environmental Trainers  
October, 2017

Asbestos Awareness  
Environmental Trainers  
October, 2017

## **CONTINUING SECURITY EDUCATION**

Conducting Security Surveys  
Milwaukee Area Technical College  
October, 1980

Retail Security Workshop  
Milwaukee Area Technical College  
October, 1980



Civil and Criminal Law Workshop  
Milwaukee Area Technical College  
February, 1981

Legal Issues  
Milwaukee Area Technical College  
August, 1984

## **CONTINUING EMERGENCY MANAGEMENT EDUCATION**

Department of Homeland Security, Washington, D.C.,  
Nationwide SAR Initiative

Suspicious Activity Reporting – Emergency Management Training

Department of Homeland Security, Washington, D.C., Federal Emergency  
Management Agency, Texas A & M Engineering Extension Service

MGT 312- Senior Officials Workshop for All-Hazards Preparedness

AWR-160-W WMD/Terrorism Awareness for Emergency Responders

Department of Homeland Security, Washington, D.C.  
Federal Emergency Management Agency/Office of Emergency  
Communications

Communications Unit Leader (COML)  
Kansas City, Kansas

Auxiliary Emergency Communicator (AUXCOMM)  
Waukesha, Wisconsin

Illinois Emergency Management Agency  
Springfield, Illinois

Leadership and Influence  
Chicago, Illinois

Principles of Emergency Management  
Bloomington-Normal, Illinois

Volunteer and Donations Management  
Wheaton, Illinois

Effective Communications  
Lemont, Illinois

Emergency Planning  
Bloomington-Normal, Illinois

Homeland Security Exercise and Evaluation Program  
DeKalb, Illinois  
Tabletop Exercise Design  
Aurora, Illinois

International Association of Emergency Managers  
Falls Church, Virginia

2013 International Association of Emergency Managers Conference  
Reno, Nevada

2014 International Association of Emergency Managers Conference  
San Antonio, Texas

2015 International Association of Emergency Managers Conference  
Las Vegas, Nevada

2016 International Association of Emergency Managers Conference  
Savannah, Georgia

Illinois Emergency Services Management Association  
Evansville, Illinois

Hazard Identification and Risk Assessment (HIRA) / Threat and  
Hazard Identification and Risk Assessment (THIRA) Training

Special Needs Training – State of Illinois Standard Guide for  
Population Related Disaster Services

2014 Illinois Emergency Services Management Association Training  
Conference  
Bloomington-Normal, Illinois

2015 Illinois Emergency Services Management Association Training  
Conference  
Springfield, Illinois

2016 Illinois Emergency Services Management Association Training  
Conference  
Springfield, Illinois

FEMA Emergency Management Institute, Washington, D.C  
ISP – Independent Study Program

IS-1	Emergency Manager: An Orientation to the Position
IS-3	Radiological Emergency Management
IS-5.a	An Introduction to Hazardous Materials
IS-7	A Citizen's Guide to Disaster Assistance
IS-15.b	Special Events Contingency Planning for Public Service Agencies
IS-22	Are You Ready? An In-Depth Guide to Citizen Preparedness
IS-29	Public Information Officer Awareness
IS-33.12	FEMA Initial Ethics Orientation 2012
IS-35.12	FEMA Safety Orientation 2012
IS-33.13	FEMA Initial Ethics Orientation 2013
IS-35.13	FEMA Safety Orientation 2013
IS-33.14	FEMA Initial Ethics Orientation 2014
IS-35.14	FEMA Safety Orientation 2014
IS-36	Multi-Hazard Planning for Child Care
IS-37	Managerial Safety and Health
IS-42	Social Media in Emergency Management
IS-55.a	Household Hazardous Materials – A Guide for Citizens
IS-100.b	Introduction to Incident Command System
IS-100.he	Introduction to Incident Command System for Higher Education for School
IS-100.leb	Introduction to the Incident Command System for Law Enforcement

IS-100.sca	Introduction to the Incident Command System for Schools and Colleges
IS-100.hcb	Introduction to the Incident Command System for Healthcare/Hospitals
IS-100.pwb	Introduction to the Incident Command System for Public Works
IS-101.c	Preparing for Federal Disaster Operations: FEMA
IS-102.c	Preparing for Federal Disaster Operations: FEMA Response Partners
IS-106.15	Workplace Violence Awareness Training
IS-120.a	An Introduction to Exercises
IS-130	Exercise Evaluation and Improvement Planning
IS-139	Exercise Design
IS-200.b	ICS for Single Resources and Initial Action Incidents
IS-201	Forms Used for the Development of the Incident Action Plan
IS-208.a	State Disaster Management
IS-212	Introduction to Unified Hazard Mitigation Assistance
IS-230.b	Fundamentals of Emergency Management
IS-230.d	Fundamentals of Emergency Management
IS-235.b	Emergency Planning
IS-240.a	Leadership & Influence
IS-240.b	Leadership & Influence
IS-241.a	Decision Making and Problem Solving
IS-241.b	Decision Making and Problem Solving

IS-242.a	Effective Communication
IS 242.b	Effective Communication
IS-265	Basic Instructional Skills
IS-271.a	Anticipating Hazardous Weather & Community Risk
IS-288	The Role of Voluntary Agencies in Emergency Management
IS-288.a	The Role of Voluntary Agencies in Emergency Management
IS-317	Introduction to Community Emergency Response Teams
IS-319	Tornado Mitigation Basics for Mitigation Staff
IS-322	Flood Mitigation Basics for Mitigation Staff
IS-328	Plan Review for Local Mitigation Plans
IS-340	Hazardous Materials Mitigation
IS-366	Planning for the Needs of Children in Disasters
IS-368	Including People with Disabilities and Others with Access and Functional Needs in Disaster Operations
IS-393.a	Introduction to Hazard Mitigation
IS-394.a	Protecting Your Home or Small Business from Disaster
IS-453	Introduction to Homeland Security Planning
IS-454	Fundamentals of Risk Management
IS-524	Continuity of Operations (COOP) Planner's Workshop
IS-545	Reconstitution Planning Course
IS-546.12	Continuity of Operations Awareness Course
IS-547.a	Introduction to Continuity of Operations

IS-551	Devolution Planning
IS-559	Local Damage Assessment
IS-613	Technical Writing
IS-619	Research in Training and Education
IS-632.a	Introduction to Debris Operations
IS-660	Introduction to Public-Private Partnerships
IS-700.a	National Incident Management System (NIMS:) An Introduction
IS-703.a	NIMS Resource Management
IS-704	NIMS Communications and Information Management
IS-775	EOC Management and Operations
IS-800.b	National Response Framework: An Introduction
IS-802	Emergency Support Function (ESF) #2 – Communications
IS-805	Emergency Management
IS-830	Introduction to NRF Annexes
IS-907	Active Shooter: What You Can Do
IS-909	Community Preparedness: Implementing Simple Activities for Everyone
IS-910	Emergency Management Preparedness Fundamentals

Emergency Management Magazine  
Folsom, California

2013 Emergency Management Summit  
Chicago, Illinois

2014 Emergency Management Summit  
Chicago, Illinois

2015 Emergency Management Summit  
Chicago, Illinois

College of DuPage Homeland Security Education Center  
Glen Ellyn, Illinois

London Riots and Bombing Response and Recovery Workshop

**CONTINUING EMERGENCY COMMUNICATIONS EDUCATION**

Department of Homeland Security, Washington, D.C.  
Federal Emergency Management Agency/Office of Emergency  
Communications

- E0969 NIMS ICS All-Hazards Communications Unit Leader  
(COML)
- L0146 Homeland Security Exercise and Evaluation Program  
(HSEEP) Course

Department of Homeland Security, Washington, D.C.  
Office of Emergency Communications / Interoperable Communications  
Technical Assistance Program

Auxiliary Emergency Communications  
American Radio Relay League, Newington, CT  
CEP - Continuing Education Program

- EC-001 Introduction to Emergency Communications
- EC-002 Intermediate Emergency Communications
- EC-003 Advanced Emergency Communications
- EC-008 VHF/UHF - Life Beyond the Repeater
- EC-015 Public Information Officer
- EC-016 Public Service and Emergency Communications  
Management for Radio Amateurs
- ARRL 1247 Digital Technology for Emergency Communications

## **CONTINUING SEVERE WEATHER MITIGATION EDUCATION**

National Weather Service, Romeoville, IL  
Severe Weather Spotter Training

eSpotter Introduction Training  
Severe Weather Spotter Training – Annually

National Science Foundation National Center for Atmospheric Research,  
Boulder, CO  
University Corporation for Atmospheric Research

Role of the SKYWARN Spotter  
SKYWARN Spotter Convective Basics

SKYWARN Spotter Training  
Anticipating Hazardous Weather & Community Risk

FEMA Emergency Management Institute, Washington, D.C.  
Independent Study Program

IS-319 Tornado Mitigation Basics for Mitigation Staff

DuPage County Office of Homeland Security and Emergency Management,  
Wheaton, IL  
Advanced Severe Weather Seminar

Advanced Severe Weather Seminar – Annually

Amateur Radio Relay League  
Newington, CT  
Hurricane Season Webinar

Hurricane Season Webinar - Annually

## **INSTRUCTIONAL POSITIONS**

Adler University  
Emergency Management Leadership Program  
Program Director/Professor



Adler School of Professional Psychology  
Police Psychology Program  
Professor

Quality Matters  
Maryland Online  
Peer Reviewer

American Radio Relay League  
Emergency Communications  
Certified Emergency Communications Field Instructor

American Radio Relay League  
Emergency Communications  
On-Line Instructional Mentor

American Radio Relay League  
Emergency Communications  
Certified Emergency Communications Field Examiner

State of Wisconsin  
Board of Vocational, Technical and Adult Education  
Fire Service Instructor I

State of Wisconsin  
Board of Vocational, Technical and Adult Education  
Fire Service Instructor II

William Rainey Harper College  
Fire Science  
Adjunct Instructor  
Milwaukee Area Technical College  
Police Science Technology  
Adjunct Instructor

Milwaukee Area Technical College  
Fire Science Technology  
Adjunct Instructor

## **CONTINUING INSTRUCTIONAL METHODOLOGY EDUCATION**

Higher Learning Commission  
Continuing Education  
Workshop on Student Persistence and Completion

Higher Learning Commission  
Continuing Education  
Workshop on Assessment of Student Learning

State of Wisconsin  
Board of Vocational, Technical and Adult Education  
Instructional Methodology

Federal Emergency Management Agency  
Emergency Management Institute  
Basic Instructional Skills

Federal Emergency Management Agency  
Emergency Management Institute  
Research in Training and Education

American Radio Relay League  
Continuing Education Program  
Certified Emcomm Field Instructor

National Association of Fire Investigators  
National Certification Board  
Fire Investigation Instruction

Quality Matters Program  
Maryland Online  
Applying the Quality Matters Rubric Course

Quality Matters Program  
Maryland Online  
Peer Reviewer Course

Adler University  
Adler Online  
Online Technology and Pedagogy Training Course

Quality Matters Program  
Maryland Online  
2014 Quality Matters Rubric Update Course

Quality Matters Program  
Maryland Online  
Professional and Continuing Education Review Course

Quality Matters Program  
Maryland Online  
Master Reviewer Course

## **INSTRUCTIONAL POSITIONS – ENGAGEMENT SPECIFIC**

Fire/Arson Detection  
United States Fire Administration's National Fire Academy Field Program  
Chief Instructor  
October, 1984

Fire/Arson Detection  
United States Fire Administration's National Fire Academy Field Program  
Chief Instructor  
March, 1985

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
March, 1986

Fire/Arson Detection  
United States Fire Administration's National Fire Academy Field Program  
Exclusive Instructor  
May, 1986

5th Annual Midwest Conference – Fire Investigation Training Resources  
International Society of Fire Service Instructors  
Instructor  
September, 1986

25th Annual Conference – Fire Investigation Training Resources  
Wisconsin Society of Fire Service Instructors  
Instructor  
February, 1987

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
March, 1987

Fire/Arson Detection  
United States Fire Administration's National Fire Academy Field Program  
Exclusive Instructor  
March, 1987

Textiles for Interiors Course – Fire Safety Considerations in Interior Design  
Milwaukee Area Technical College  
Guest Instructor  
March, 1987

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
March, 1988

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
April, 1988

Quarterly Training Seminar – Incendiary Fire Devices  
Wood County Fire Investigation Task Force  
Guest Instructor  
April, 1988

Annual Training Seminar – Incendiary Fire Devices  
Marquette County Firemen's Association  
Guest Instructor  
April, 1988

Regional Training Seminar – Firefighter's Role in Fire Investigation,  
Grand Rapids Fire Department  
Guest Instructor  
October, 1988

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
March, 1989

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
April, 1989

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1989

National Conference on Fire Investigation Instruction  
Primary Instructor  
National Association of Fire Investigators  
January, 1990

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
March, 1990

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
Primary Instructor  
March, 1990

Fire Investigation Training Seminar  
University of Southern Mississippi  
Primary Instructor  
June, 1990

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1990

Fire Litigation and Explosion Investigation Training Seminar  
HMR Fire Technology Institute  
Primary Instructor  
September, 1990

1st Annual Fire and Explosion Investigation Training Program  
Sacramento County Fire Investigation Unit  
Primary Instructor  
November, 1990

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
Primary Instructor  
April, 1991

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1991

Arson Investigation  
Milwaukee Area Technical College  
Exclusive Instructor  
February, 1992

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
Primary Instructor  
March, 1992

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1992

Public Defender's Conference - Fire Investigation  
State of Wisconsin Public Defender's Office  
Guest Instructor  
October, 1992

Fire Science and Technology Educator's Section Program  
National Fire Protection Association  
Primary Instructor  
November, 1992

FPETool and Hazard I User's Conference  
National Institute of Standards and Technology  
Guest Instructor  
October, 1992

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
Primary Instructor  
March, 1993

Regional Training Program  
Northern Illinois Arson Task Force  
Guest Instructor  
April, 1993

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1993

Conference on Community College Fire Science and Technology Core  
Curriculum  
National Fire Protection Association  
Guest Instructor  
September, 1993

Advanced Arson Investigation Seminar  
Denver Fire Department Arson Squad  
Guest Instructor  
March, 1994

Fire Investigation Course for Professional Development  
Eastern Kentucky University  
Primary Instructor  
March, 1994

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1994

Rocky Mountain Fire, Arson and Explosion Investigation Training Program  
Aurora Fire Department  
Primary Instructor  
January, 1995

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1995

Annual Training Seminar  
Washington State Chapter of the International Association of Arson  
Investigators  
Guest Instructor  
September, 1995

Annual Training Seminar  
Colorado Association of Property and Evidence Technicians  
Guest Instructor  
September, 1995

Fire Science and Technology Educator's Section Program  
National Fire Protection Association  
Primary Instructor  
November, 1995

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 1995

National Advanced Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Primary Instructor  
March, 1996

National Advanced Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Primary Instructor  
March, 1997

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
July, 1997

Texas Fire, Arson and Explosion Investigation Training Symposium  
Missouri City Fire Department, Texas A & M University  
Primary Instructor  
September, 1997

Annual Training Seminar  
Wisconsin Arson Insurance Council  
Guest Instructor  
November, 1997

Annual Fire Investigation Training Program  
Burlington County, New Jersey Arson Task Force  
Guest Instructor  
January, 1997



National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
July, 1998

Annual National Training Program  
Crawford Company Special Investigation Unit  
Primary Instructor  
August, 1998

Texas Fire, Arson and Explosion Investigation Training Symposium  
Missouri City Fire Department and Texas A & M University  
Primary Instructor  
August, 1998

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
November, 1998

National Seminar on Fire Analysis Litigation  
National Association of Arson Investigators  
Instructor  
January, 1999

National Advanced Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Primary Instructor  
April, 1999

Florida Fire & Explosion Investigation Symposium  
National Association of Fire Investigators  
Primary Instructor  
July, 1999

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
August, 1999

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
November, 1999

National Seminar on Fire Analysis Litigation  
National Association of Fire Investigators  
Instructor  
January, 2000

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
November, 2000

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
August, 2001

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2001

National Advanced Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Instructor  
April, 2002

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
August, 2002

National Seminar on Fire Analysis Litigation  
National Association of Fire Investigators  
Instructor  
January, 2002

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
September, 2002

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2002

National Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Instructor  
August, 2003

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
October 2003

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2003

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
August, 2004

National Advanced Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
March, 2004

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
September 2004

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2004

National Advanced Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Instructor  
March, 2005

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
August, 2005

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
September, 2005

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
October, 2005

Motor Vehicle Fire Investigation – A Primer  
Elgin Regional Fire Academy  
Exclusive Instructor  
May 2006

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
August, 2006

Compartment Fire Dynamics and Advanced Fire Pattern Analysis – Origin  
Determination Utilizing Heat and Flame Vector Analysis  
Marengo, Illinois Fire Department  
Exclusive Instructor  
September, 2006

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2006

National Advanced Fire, Arson and Explosion Investigation Training Program  
Eastern Kentucky University  
Instructor  
March, 2007

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
August, 2007

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
September, 2007

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2007

Introduction to Emergency Communications  
American Radio Relay League  
Exclusive Instructor  
January, 2008

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
March, 2008

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2008

Saudi Aramco Fire, Arson and Explosion Investigation Training Program  
Trace Fire Safety Consultants  
Primary Instructor  
November, 2008

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
March, 2009

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
September, 2009

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2009

Introduction to Emergency Communications  
American Radio Relay League  
Exclusive Instructor  
January, 2010

National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Instructor  
March, 2010

Saudi Aramco Fire, Arson and Explosion Investigation Training Program  
Trace Fire Safety Consultants  
Primary Instructor  
August, 2010

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2010

Fire Investigation Training Program for the United States Consumer Product  
Safety Commission  
Eastern Kentucky University  
Primary Instructor  
December, 2010

Central Zone Annual Training Conference  
Central Illinois Fire Investigators Association  
Guest Instructor  
April, 2011

Vehicle Fire, Arson and Explosion Investigation Science and Technology  
Seminar  
National Association of Fire Investigators  
Instructor  
September, 2011

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2011

Northern Zone Fire Investigation Seminar  
Illinois Chapter of the International Association of Arson Investigators  
Instructor  
January, 2012

29<sup>th</sup> Annual Fire Investigation Training Conference  
Illinois Chapter of the International Association of Arson Investigators  
Instructor  
September, 2012

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2012

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2013

Psychology of Leadership  
City of Chicago Police Academy  
January 2014

Introduction to the Incident Command System  
DuPage County Amateur Radio Emergency Service  
Primary Instructor  
January, 2014

ICS for Single Resources and Initial Action Incidents  
DuPage County Amateur Radio Emergency Service  
Primary Instructor  
May, 2014

Technical Standards and Safety Administration Fire Investigation Seminar  
Trace Fire & Safety  
Primary Instructor  
September, 2014

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2014

National Incident Management System (NIMS): An Introduction  
DuPage County Amateur Radio Emergency Service  
Primary Instructor  
October 2014

National Response Framework (NRF): An Introduction  
DuPage County Amateur Radio Emergency Service  
Primary Instructor  
November 2014

Introduction to the Incident Command System  
DuPage County Amateur Radio Emergency Service  
Primary Instructor  
March 2015

Incident Command System for Single Incident and Initial Action  
DuPage County Amateur Radio Emergency Service  
Primary Instructor  
July 2015

Canadian National Fire, Arson and Explosion Investigation Training Program  
National Association of Fire Investigators  
Primary Instructor  
October, 2015

Motor Vehicle Fire Investigation – A Primer  
Elgin Fire Department  
Exclusive Instructor  
October, 2017

Origin Determination/Introduction to Heat and Flame Vector Analysis  
Utah Chapter IAAI Annual Training Seminar  
Utah Chapter of the International Association of Arson Investigators  
February, 2019

## **RECENT PRESENTATIONS**

*Bringing Social Justice to Emergency Management Leadership*  
Adler University  
Chicago, Illinois

*Changing Landscape of Emergency Management*  
Adler University  
Chicago, Illinois

*Emergency Management Leadership*  
Adler University  
Chicago, Illinois



*Bringing Social Justice to Emergency Management*  
Adler University  
Chicago, Illinois

*Emergency Management and the Role of Higher Education*  
Adler University  
Online Webinar

*Evolution of Emergency Management in a Global Society*  
Association of Threat Assessment Professionals  
Chicago, Illinois

*Impact/Interventions: Crises and Disasters for People with Disabilities*  
Adler University  
Chicago, Illinois

*Emergency Management Strategies: Crises and Disasters for People with Disabilities*  
Adler University  
Chicago, Illinois

*Strategic Planning: Goal Setting*  
Chicago Chapter - Association of Threat Assessment Professionals  
Chicago, Illinois

*Industrial Security and Emergency Management – A Necessary Partnership*  
Chicago Chapter – American Society for Industrial Security  
Chicago, Illinois

*Safeguarding the Psychological Well-Being and Mental Health of Your Personnel: Strategies and Interventions*  
Illinois Emergency Services Management Association  
Springfield, Illinois

*Safeguarding the Psychological Well-Being and Mental Health of Your Personnel: Strategies and Interventions*  
Hanover Park Township Emergency Services  
Bartlett, Illinois

## PROFESSIONAL PAPERS, PUBLICATIONS AND ARTICLES

*The Dispatcher*  
Badger Firemen's Association  
Previous Monthly Contributor

*The National Fire Investigator*  
Journal of the National Association of Fire Investigators  
Previous Editor and Regular Contributor

National Fire Code NFPA 907M, entitled *Manual for the Determination of Electrical Fire Causes*  
National Fire Protection Association  
Committee Member

National Fire Code NFPA 921, 1992 Edition, entitled *Guide for Fire and Explosion Investigations*  
National Fire Protection Association  
Committee Member

National Fire Code NFPA 921, 1995 Edition, entitled *Guide for Fire and Explosion Investigations*  
National Fire Protection Association  
Committee Member

National Fire Code NFPA 921, 1998 Edition, entitled *Guide for Fire and Explosion Investigations*  
National Fire Protection Association  
Committee Member

National Fire Code NFPA 921, 2014 Edition, entitled *Guide for Fire and Explosion Investigations*  
National Fire Protection Association  
Committee Member

National Fire Code NFPA 921, 2017 Edition, entitled *Guide for Fire and Explosion Investigations*  
National Fire Protection Association  
Committee Member

*Introduction to Fire Origin and Cause*, 3<sup>rd</sup> Edition  
International Fire Service Training Association  
Committee Member

*Fire Investigator, 2<sup>nd</sup> Edition*  
International Fire Service Training Association  
Committee Member

*Introduction to Fire Origin and Cause, 4<sup>th</sup> Edition*  
International Fire Service Training Association  
Committee Member

*The Virtues of the Online/Face-to-Face Blend in Emergency Management  
Higher Education*  
Illinois Cops Magazine

*Experts: Emergency Management and Disaster Response Must Address  
Psychological Trauma and Mental Health*  
USA Today Homeland Security Special Edition

*Fire Investigator, 3<sup>rd</sup> Edition*  
International Fire Service Training Association  
Committee Member

## **PROFESSIONAL PUBLICATIONS AND JOURNALS SUBSCRIPTIONS**

*The National Fire Investigator*  
Journal of the National Association of Fire Investigators (NAFI)

*The Fire and Arson Investigator*  
Publication of the International Association of Arson Investigators (IAAI)

*The NFPA Journal*  
Journal of the National Fire Protection Association (NFPA)

## **PROFESSIONAL AWARDS/ACHIEVEMENTS**

Certification of Appreciation for Valuable Contributions  
Adler School of Professional Psychology

John Charles Wilson Scholarship Award  
International Association of Arson Investigators

Firefighter of the Year  
Ozaukee County Association of Fire Departments

Common Council Official Resolution 86-19  
City of Cedarburg, Wisconsin

Honorable Mention for the Firefighter of the Year Award  
Badger Firemen's Association

Fire Safety Education Award  
Cedarburg Fire Department

Official Citation for Exemplary Service  
Cedarburg Police Department

Kentucky Colonel  
Governor Wallace G. Wilkinson  
Commonwealth of Kentucky

Man of the Year Award  
National Association of Fire Investigators

Material Review Committee Service Plaque  
Introduction to Fire Origin and Cause, 3<sup>rd</sup> Edition  
International Fire Service Training Association

Material Review Committee Service Plaque  
Fire Investigator, 2<sup>nd</sup> Edition  
International Fire Service Training Association

Material Review Committee Service Plaque  
Introduction to Fire Origin and Cause, 4<sup>th</sup> Edition  
International Fire Service Training Association

Instructional Service Award Plaque  
Central Illinois Fire Investigator's Association

Board of Director's Award  
Illinois Chapter of the International Association of Arson Investigators

Official Emergency Station (OES)  
American Radio Relay League  
Field Organization

Public Information Officer (PIO)  
American Radio Relay League  
Field Organization

## **PROFESSIONAL AFFILIATION COMMITTEE ASSIGNMENTS**

International Fire Service Training Association

Validation Committee for *Fire Investigator*

International Fire Service Training Association

Validation Committee for *Fire Origin and Cause*

National Fire Protection Association (NFPA)

Technical Committee on Fire Investigations

## **PROFESSIONAL AFFILIATIONS**

National Fire Protection Association (NFPA)

American Society of Safety Engineers (ASSE)

American Society for Public Administration (ASPA)

National Fire Academy Alumni Association (NFAAA)

National Association of Fire Investigators (NAFI)

International Association of Arson Investigators (IAAI)

Illinois Chapter of International Association of Arson Investigators (IL-IAAI)

California Conference of Arson Investigators (CCAI)

Canadian Association of Fire Investigators (CAFI)

Society of Fire Protection Engineers (SFPE)

American Society for Testing and Materials (ASTM)

Society of Automotive Engineers (SAE)

American Radio Relay League (ARRL)

Honorable Order of the Kentucky Colonels

## **ACADEMIC AFFILIATIONS**

Phi Kappa Phi Honors Society

University of Cincinnati Alumni Association

Eastern Kentucky University Alumni Association

Eastern Kentucky University College of Justice & Safety Alumni Society

**Subject to Change Without Notice**