

OHIO FIRE CHIEFS' ASSOCIATION



PREMIER • PROFESSIONAL • PROACTIVE



Course Description and Presenters Guide

**Columbus
Hilton at Easton**

**JULY
11-15**

COLUMBUS, OHIO

A guide to the education sessions and those who are presenting at the OFCA Conference.
The theme for 2019 is *Saving Our Own with the Work We Do Today!*

OHIO FIRE CHIEFS' ASSOCIATION

COURSE DESCRIPTION AND PRESENTERS GUIDE

NOTE:

- **ALL CLASSES QUALIFY FOR HOURS TOWARD EITHER THE OHIO FIRE CHIEF (OFC) OR OHIO FIRE OFFICER (OFO) CREDENTIALING OR RE-CREDENTIALING PROGRAM.**
- **ALL WORKSHOPS OFFERING CEU(S) MUST BE ACCEPTED AND APPROVED BY YOUR CHIEF.**
- **** DENOTES SESSIONS THAT QUALIFY FOR OHIO EMS CEU(S) THROUGH FARMERSVILLE FIRE & EMS SITE #1029.**

COURSE DESCRIPTIONS

1, 2, 3, 4, and 5: The Five Most Important Words in Leadership

Colonel Mortenson uses our U.S. Constitution and the Preamble in a creative and unique way to illustrate the beliefs and personal qualities that make up a good leader.

Presenter: Colonel Royal P. Mortenson, USMC (Ret.), Director Illinois Fire Service Institute University of Illinois-Urbana/Champaign

Date and Time: Friday, July 12, 10:45 AM – 11:55 AM

Location: Regent 2 & 3

2015 IFC and IBC Fire Protection Systems

This seminar is designed to guide participants through the 2015 IFC requirements to fire protection systems (Chapter 9). These requirements include suppression systems, standpipe systems, automatic fire alarm systems, automatic detection systems, and additional fire protection assemblies. Due to broad scopes of the 2015 IFC and Chapter 9 of the 2015 IBC, the focus of this seminar is to review design, construction, inspection, and testing requirements for: fire sprinkler systems; fire-extinguishing systems; standpipe systems; fire alarm and detection systems; smoke control systems; and smoke removal systems. Attendees will be provided: an understanding of the Chapter 9 fire protection system requirements in the 2015 IFC and 2015 IBC; the design and operation of various fire-extinguishing and fire detection and signaling systems; the review of the applicable NFPA standards for fire protection systems; and the requirements for the inspection and maintenance of fire protection systems.

Presenter: Jeff Swanson, Retired Fire Chief/Administrator, Barrington Countryside FPD, Illinois

Date and Time: Friday, July 12, 8:30 AM – 4:00 PM

Location: Juniper B & C

“Another Routine Fire!” Adrenaline Based Fire Ground Tactics: A Recipe for Disaster!

This program will discuss the issues associated with adrenaline-based fire ground tactics. **Tactics on the Rush!** You will look at the steps a small Midwestern city has taken to alter fire ground tactics using fire behavior research and best practices. You will discuss the process used to train members to analyze structure fires and develop sound tactics capitalizing on **Experience**, and **Education**. You will compare the concepts of Fire Ground Analysis using **Benefits vs. Consequences** and **Risk vs. Benefits**. You will talk about training concepts and procedures to review fire ground analysis to better understand fire behavior and best practices to further reinforce the concepts of sound tactics. The

program will be centered on **Another Routine Fire** that will help illustrate concepts and procedures for combating **Adrenaline Based Fire Ground Tactics**.

Presenter: Lt. Scott Rupp and Firefighter Jim Frantz, Springfield Fire Department

Date and Time: Saturday, July 13, 8:30 AM – 10:30 AM; 3:45 PM – 5:15 PM

Location: 8:30 AM: Magnolia Room; 3:45 PM: Lilac Room

**** Be the Change That You Wish to See: Cancer Free ****

The program will examine elements of change—adaptive work; and how the behavior of exercising leadership is a vital necessity for confronting the difficult work of prevention and eliminating cancer in the workplace and beyond. A number of historical cases and examples will be used, along with a few selected change management/leadership frameworks.

Presenter: Chuck Burkell, Burkell & Associates

Date and Time: Monday, July 15, 8:30 AM – 11:00 AM

Location: Easton A

**** Behavioral Health Awareness and Peer Support Teams to Firefighter Wellness ****

The interactive presentation focuses on the benefits of behavioral health awareness and peer support teams to fight behavioral wellness. As a matter of crew safety, fire officers need to be aware of behavioral health concerns and how to respond to them. This course provides that awareness. The first module examines particular behavioral health disorders (such as alcohol use disorder, bipolar disorder, depression, PTSD, compassion fatigue, and burnout) and provides a take-home point for each condition to demonstrate that peer-to-peer awareness and assistance is possible and valuable. The discussion also has a section on suicide awareness and prevention strategies. In the second module, attendees are taught a simple assessment tool to help determine if they or a fellow firefighter may need behavioral health assistance. The third module discusses self-care strategies to emphasize the importance of being proactive to prevent the development of behavioral health complications. In the final module, attendees evaluate how formalized peer support teams can benefit fire agencies of all sizes, how they can be implemented, and how they can be utilized.

Presenter: Brandon Dreiman, JD, EMT-P, Firefighter Wellness and Support Coordinator

Date and Time: Sunday July 14, 10:15 AM – 11:45 AM; 3:15 PM – 4:45 PM

Location: Magnolia Room

**** Behavioral Health Study ****

Members of the OFCA, OAPFF, and the OSFA partnered to access the prevalence of behavioral health and/or emotional issue among certified firefighters and EMS workers in Ohio. They will discuss the newly released report *Assessing Behavioral Health and Emotional Conditions, Actions, and Needs Among Ohio's Firefighters and EMS Professionals*. This may well be the first study in the U.S. to examine firefighter and EMS behavioral health on a state level. Time will be planned for discussion with presenters and attendees.

Presenter: Jack Rupp, Jr., Assistant Chief, Plain Twp. Fire Department

Date and Time: Saturday, July 13, 3:45 PM – 5:15 PM; Sunday, July 14, 1:00 PM – 2:45 PM

Location: Saturday, July 13: Worthington Room; Sunday, July 14: Columbus Room

Corrosion Management – Keeping Your Fleet on the Road

This presentation will provide an overview of research recently conducted regarding the impact of modern snow and ice control materials are having on fire department vehicles. The topics that will be covered include: the chemistry of corrosion; identification of modern snow/ice control agents; effects

of snow/ice control agents on fire department vehicles; reduced service life of vehicles; corrosive impact on specific vehicle components; inspection and management of corrosion on existing vehicles; and corrosion-conscious specification of new vehicles. The presentation will allow ample time for class participation and questions, so that everyone can ideally take some valuable information for their agencies.

Presenter: Assistant Chief Rob Campbell, OFE, Bath Fire Department

Date and Time: Sunday, July 14, 10:15 AM – 11:45 AM

Location: Lilac Room

Critical Thinking for First Responders: Making the Right Choice

First responders are called upon to make quick and accurate decisions on the emergency scene. In many cases, these decisions will decide the outcome of the situation. Critical thinking skills can enhance the ability of the first responder to make the best decision for the situation at hand. Critical thinking is a skill that can help both volunteer and career responders make optimal decisions on and off the emergency scene. This presentation will provide an interactive approach to enriching your ability to make sound decisions for your organization.

Presenter: Ret. Chief John Buckman and Chief Tim L. Holman, German Township Fire & EMS

Date and Time: Sunday, July 14, 8:30 AM – 12:15 PM

Location: Columbus Room

Corrosion Management – Keeping Your Fleet on the Road

This workshop will provide an overview of research recently conducted regarding the impact modern snow and ice control materials are having on fire department vehicles. The topics that will be covered include: the chemistry of corrosion; identification of modern snow/ice control agents; effects of snow/ice control agents on fire department vehicles; reduced service life of vehicles; corrosive impact on specific vehicle components; inspection and management of corrosion on existing vehicles; and corrosion-conscious specification of new vehicles. The workshop will allow ample time for class participation and questions so that everyone can ideally take away valuable information for their agency.

Presenter: Assistant Chief Rob Campbell, OFE, Bath Fire Department

Date and Time: Sunday, July 14, 10:15 AM – 11:45 AM

Location: Lilac Room

Educating the Trainer/Instructor

This course will provide two hours of continuing education in adult methodology. These two hours will meet the requirement of the state of Ohio's CEU's for a Public Safety Instructor. At the end of the session, the students will be able to: describe the principles of adult learning theory; identify barriers, motivators, and major needs as they pertain to adult learning; describe the four competencies associated with the professional foundations; and explain needs and task analyses.

Presenter: Jeffrey A. Orphal, Captain (Ret.)/NREMT Paramedic, UF CCP

Date and Time: Thursday, July 11, 9:00 AM – 11:15 AM; Saturday, July 13, 2:00 PM – 4:00 PM

Location: Thursday, July 11: Lilac Room; Saturday, July 13: Worthington Room

Hazmat for the One in the Hot Seat

"Attention all units: Please respond to XYZ Industries for a report of an unknown gas release with one person unaccounted for." You're riding in the front passenger seat of the first-due rig, and dispatch advises that the regional hazmat team has an estimated arrival time of 20 minutes. Your crew

arrives on scene; people are yelling for you to do something for their coworker. You take a quick look into the building through a nearby window and see a female employee moving on the floor and rapidly breathing. The bystander cell phones are recording while your crew looks to you for direction. Is your structural turnout gear and self-contained breathing apparatus the appropriate personal protective equipment for a quick rescue? Do you have essential equipment to ensure you are safe? Do you have the proper training and mean to identify the hazard ahead of you? This informative workshop is for the first-due firefighter sitting in the incident commander hot seat who may face a scenario like this. Chief officers to acting company officers will obtain the tools to ensure their crews will be safe during the initial critical moments of a hazmat run. The street-smart approach to making difficult decisions when civilian and crew members' lives are on the line will benefit those trained in hazmat awareness to hazmat specialists. Participants will review the instructor's Hazmat Tactical Response Guides designed by first responders for first responders.

Presenter: Nick Zamiska, Fire Chief, Brecksville Fire Department

Date and Time: Thursday, July 11, 1:00 PM – 5:00 PM; Sunday, July 14, 8:30 AM – 12:00 PM

Location: Thursday, July 11: Juniper B & C; Sunday, July 14: Regent 1

Highway Hydraulics: From Back Roads to Main Street

Mention a water shuttle and what springs to mind for many is a barn fire on some desolate rural highway with operations dependent on a tenuous water main on wheels. While the water shuttle has long been considered an operational art for the rural firefighter, do not disregard its application in urban and suburban communities. Even well-designed municipal water main systems can be overwhelmed by high-demand incidents or hydrant coverage may be uneven, particularly on limited-access highways. In communities where maintenance has been repeatedly deferred, the mains can fail outright, and repairs take an extended amount of time. Knowing the basics of water shuttle operations prepares departments to use one to supplement or replace the municipal water main system. This class covers the basic elements of water shuttles, including scaling up using transition methods. One cannot just throw a shuttle together and expect good results, pre-incident planning and inter-departmental training will be emphasized throughout.

Presenter: Ed Collet, Firefighter/EMT, Jackson Twp. Stark County, Ohio, Co-chair OFCA Water Supply Technical Advisory Committee

Date and Time: Saturday, July 13, 3:45 PM – 5:15 PM; Sunday, July 14, 1:00 PM – 3:00 PM

Location: Saturday, July 13: Magnolia Room; Sunday, July 14: Magnolia Room

In Search of the Holy Grail: Indoor Mapping, Tracking, and Navigation for First Responders

During this presentation, attendees will learn about groundbreaking research and development related to indoor mapping, tracking, and navigation technologies for firefighters. Participants will have a chance to get hands-on with a mobile mapping system that could be used for pre-incident planning, as well as learn about opportunities to get involved with current activities.

Presenter: Jeb Benson, NIST Public Safety Communications Research Program

Date and Time: Saturday, July 13, 8:30 AM – 10:00 AM; 3:45 PM – 5:15 PM

Location: 8:30 AM: Lilac Room; 3:45 PM: Juniper B & C

ISO and VCOS – Partnering with the Fire Service

For some time, ISO has been asked what really happens when they visit your community. ISO has strived in the past to answer this question, and with their relationship with VCOS, they are moving forward. The class will start with an initial contact from ISO to the community, their expected meetings with Emergency Communication Centers, water departments, and fire department. What it is that they look at and what do you need to do to prepare for their meetings? What happens at the

end of the grading and what happens next? What about the outcome and when do I know the outcome? ISO will interject how VCOS has helped them with their mission, and how they have impacted the fire service, including the recently released Lavender Report. This class is geared to all members of the fire service.

Presenter: Joe Fratantaro, Community Hazard Mitigation Services Manager; Tom Rampe, Community Hazard Mitigation Senior Rep at ISO; Fire Chief Fred Windisch, EFO, CFO, Ponderosa Fire Department (Houston, Texas); Chief (Ret.) Larry Curl, Wayne Township Fire Department (Marion County, Indiana)
Date and Time: Thursday, July 11, 9:00 AM – 4:00 PM
Location: Regent 1

Leadership Tenets for the Individual

What is the foundation of good leadership and being a good leader? Is it experience? Is it character? Is it knowledge and self-study? Or is it how we live our lives; how we interact with those around us, and the associated personal priorities that drive why and what we do? Colonel Mortenson, USMC (Ret.) will present 12 maxims (rules to live by) that are essential for successful leadership.

Presenter: Colonel Royal P. Mortenson, USMC (Ret.), Director Illinois Fire Service Institute University of Illinois-Urbana/Champaign
Date and Time: Saturday, July 13, 8:30 AM – 10:00 AM
Location: Regent 1

Leading in a Crisis: Are You Ready for Your Super Bowl?

Are you, and are your people ready for “9/11”? What should you, as a leader responsible for the lives of others, be doing to ensure you and those you lead are prepared to succeed and survive—before, during, and after a crisis? Colonel Mortenson, USMC (Ret.) will present his views on how to mentally, morally, and physically prepare yourself and those you lead for the challenges of a major crisis.

Presenter: Colonel Royal P. Mortenson, USMC (Ret.), Director Illinois Fire Service Institute University of Illinois-Urbana/Champaign
Date and Time: Saturday, July 13, 3:45 PM – 5:15 PM
Location: Regent 1

Leading Large Organizations

Large organizations present a unique set of leadership challenges. Large can mean number of people, diversity of mission tasks, geographic dispersion, or complexity mission. The challenge: how does a leader influence the actions and behavior of those he/she leads when the leader is unable to be present at the critical time/place of decision? How should we “lead” when we are no longer able to influence the action by our physical and mental presence at the critical moment? Colonel Mortenson, USMC (Ret.) will address this challenge through his 13 leadership principles for leading large organizations that will lead to success.

Presenter: Colonel Royal P. Mortenson, USMC (Ret.), Director Illinois Fire Service Institute University of Illinois-Urbana/Champaign
Date and Time: Saturday, July 13, 2:00 PM – 3:30 PM
Location: Regent 1

Lessons Learned: How to Properly Complete Paperwork and Deploy under EMAC

This session will review lessons learned from recent years when resources from Ohio have responded out of state to various Emergency Management Assistance Compact (EMAC) requests. Presenters will give a brief overview of what EMAC is, and discuss how to properly deploy

under EMAC, which includes the required process, paperwork needed before deployment, and documentation for reimbursement after returning from the deployment. Also discussed will be how the Ohio Fire Chiefs' State Emergency Response System is part of this process. The goal of this session is to make entities more familiar with EMAC and for those interested, more comfortable with becoming part of Ohio's EMAC response efforts.

Presenter: Phil Johnson, Logistics Branch Chief, Ohio EMA; Holly Welch, Preparedness Administrator, Ohio EMA; and Ret. Chief William L. Houk, OFC, OFE, Emergency Response System

Date and Time: Saturday, July 13, 3:45 PM – 5:15 PM (Welch, Houk); Sunday, July 14, 3:15 PM – 4:45 PM (Johnson, Houk)

Location: Saturday, July 13: Westerville Room; Sunday, July 14: Lilac Room

NFPA Safety Standards Update: Controlling Exposures to Fireground Contaminants

This session will review recent and proposed changes to NFPA 1500: Standard on Fire Department Occupational Safety and Health. Specific emphasis will be placed on changes to the Standard that addresses the control of exposures to the toxic products of combustion. The class will also review work that the Technical Committee is doing to address post-fire exposure controls and hygiene in the upcoming edition of NFPA 1584: Standard on the Rehabilitation Process for Members During Emergency Operations and Training Exercises.

Presenter: Battalion Chief David Bernzweig, Health, Safety, and Innovation, Columbus Division of Fire

Date and Time: Thursday, July 11, 3:15 PM – 5:15 PM

Location: Thursday, July 11: Regent 2 & 3

Safe Stations

This session will provide attendees an opportunity to be informed of the impact of that the opiate epidemic is having in our region of the country, the trending and predictions of how it will continue to develop, and what types of programs and tools are available to fire departments to utilize to answer the call for involvement from their communities.

Presenter: Asst. Chief Chris Menapace, OFE, Whitehall Division of Fire

Date and Time: Saturday, July 13, 2:00 PM – 3:30 PM; Sunday, July 14, 8:30 AM – 10:00 AM

Location: Saturday, July 13: Juniper B & C; Sunday, July 14: Lilac Room

So, You Think You Want to be Chief Someday?

This workshop will help those who aspire to become a future chief officer. The presentation will cover major topics, including what you need to know about taking care of yourself in the future; how personal and professional objectives plan an important role in your future; what you need to know about presenting and speaking to the public, to the department, and to the community served; communicating in today's current media outlets. You will also learn about what you need to know about budgets and funds. Being the administrator for a fire department is an inspiring task in today's economy. It is critical for chief officers to become familiar with budgetary functions. What do you need to know about the community you wish to lead? So, you become Chief. Do you really know what is needed in the community you serve?

Presenter: Ret. Chief Mark Ober, MPA, OFE

Date and Time: Thursday, July 11, 1:00 PM – 5:00 PM; Sunday, July 14, 1:00 PM – 5:00 PM

Location: Thursday, July 11: Magnolia Room; Sunday, July 14: Regent 1

**** Southwestern Ohio Voices – Inhaling Cancer ****

The workshop will include an honor of our Ohio brothers and sisters who are fighting or have lost their battle to occupational fire service cancer, which includes many from Southwest Ohio. You will also learn about: modern fire atmosphere; SCBA use on various non-structure type fires, such as trash and vehicles, changing how we conduct overhaul and use SCBA; command entering the scene; protecting transporting gear; diesel exhaust systems; gross decon UC fire science study; protecting our youngest firefighters; tobacco use protection of the fire investigator/coroner and other “after the fire” responders 0-72 hours.

Presenter: Lieutenant Nick Magoteaux, Bethel Township Fire Department, Co-Executive Director Brothers Helping Brothers; Firefighter/Paramedic Kristopher Cooper; Fire Chief Kevin Hardwick, OFE, OFC, Glendale Fire Department; Asst. Chief David Pickering, West Chester Twp. Fire Department
Date and Time: Thursday, July 11, 1:00 PM – 3:00 PM; Saturday, July 13, 8:30 AM – 10:30 AM
Location: Regent 2 & 3

Surviving the Job

This workshop will identify some of the risks associated with being a firefighter in today’s hostile environment. Reducing carcinogen exposures and reducing suicides and the action to take will be discussed. The information for this presentation will be based upon the Yellow Ribbon Report and the Lavender Ribbon Report. Attendees will be provided access to training curriculum for reducing suicides, as well as curriculum for reducing exposures to carcinogens.

Presenter: John M. Buckman III, Ret. Chief, German Township Fire Department (Evansville, Indiana)
Date and Time: Sunday, July 14, 3:15 PM – 5:15 PM
Location: Regent 1

UAS for Public Safety Agencies: So Your Department Bought a Drone, Now What?

Public safety professionals are guided in how to develop an unmanned aircraft system (UAS) unit from a draft proposal to becoming fully operational, including FAA rules and regulations pertinent to public safety operations, standard operating procedures, developing an effective training program, and specific mission tactical challenges. This session will consist of lecture through the use of a PowerPoint presentation, as well as multiple videos taken from actual responses of the Lake County UAS Team. Aircraft will be brought to show the variety of ways the commercial hardware can be used to assist fire departments and public safety agencies. New technology will also be covered to show how with a small or large budget, UAS can deliver a level of situational awareness and safety on the fire ground to incident command and the personnel they manage.

Presenter: Scott Mlakar, Assistant Chief, Willoughby (OH) Fire Department
Date and Time: Saturday, July 13, 2:00 PM – 3:30 PM; Sunday, July 14, 10:15 AM – 11:45 AM
Location: Saturday, July 13: Lilac Room; Sunday, July 14: Juniper A

**** Why Are We Here: Part I ****

Hear from industry experts from across the United States on firefighter cancer prevention. What will you be able to learn? You will learn why firefighters are more prone to cancer than the general population. You will learn what occupational exposures present a cancer risk to firefighters, and what firefighters can do to decrease their risk for cancer. Part I of this two-part session includes: Firefighters Attacking the Cancer Epidemic; Firefighter Cancer and Statistics; Best Practices in Cancer Prevention; and Post Fire Gross Decon Demonstration.

Presenter: Florida Firefighters Safety and Health Collaborative; Ohio Face Team Members; Captain Chris Bator, Coral Springs/Parkland Fire Rescue; Fire Chief Kevin Hardwick, OFE, OFC, Glendale Fire

Department; Battalion Chief Sam Eaton, Palm Beach County Fire Rescue; Dr. Schaefer-Solle, PhD, RN, Research Assistant Professor, Division of Population Health and Computational Medicine, Department of Medicine, University of Miami Miller School of Medicine; and Ret. Division Chief Vicki Sheppard, Palm Beach County Fire Rescue, Florida Firefighter Safety and Health Collaborative

Date and Time: Saturday, July 13, 2:00 PM – 5:30 PM

Location: Regent 2 & 3

**** Why Are We Here: Part II ****

Hear from industry experts from across the United States on firefighter cancer prevention. What will you be able to learn? You will learn why firefighters are more prone to cancer than the general population. You will learn what occupational exposures present a cancer risk to firefighters, and what firefighters can do to decrease their risk for cancer. This session is part two of the “Why Are We Here” series. In this session, you will learn about: Carcinogens in PPE; Firefighter Cancer Support Network; Ottawa Fire Service: Cancer Prevention/All Weather Operational Hygiene; Science Behind Cancer in Fire Service; and Post Fire Gross Decon Demonstration.

Presenter: Florida Firefighters Safety and Health Collaborative; Ohio Face Team Members; Graham Peaslee, Professor of Experimental Nuclear Physics at the University of Notre Dame; Steve Westcott, MS, EMT-P, Board Secretary & Ohio Director of Firefighter Cancer Support Network; Peter McBride, Division Chief of Safety & Innovation with the Ottawa (Ontario) Fire Services; Jefferey L. Burgess, MD, MS, MPH, Associate Dean for Research and Professor at University of Arizona; Kenneth Fent, MS, PhD, Environmental Sciences and Engineering, University of North Carolina at Chapel Hill, NIOSH as a Research Industrial Hygienist; Dr. Alberto Juan Caban-Martinez, DO, PhD, MPH, CPH, Assistant Professor, Department of Public Health Sciences at University of Miami Miller School of Medicine, Deputy Director of Firefighter Cancer Initiative, Co-Investigator of the National Firefighter Cancer Cohort Study

Date and Time: Sunday, July 14, 8:30 AM – 5:30 PM

Location: Regent 2 & 3

PRESENTERS INFORMATION

Bator, Chris - Captain Christopher Bator began his career in 1996 as a Firefighter Paramedic with the Coral Springs-Parkland Fire Dept and in that time has risen to the rank of Captain assigned to the Operations Division on an Engine company. Captain Bator also serves as an Acting Battalion Chief, Safety Officer, Instructor, and Chair of the Safety and Health Committee for the Coral Springs-Parkland Fire Dept. Captain Bator has a AS degree in EMS and is a State of Florida Certified Paramedic, Live Fire Instructor, Instructor 2, Fire Officer 3, and Safety Officer. Captain Bator also received his Fire Officer Designation from the Center of Public Safety Excellence (CPSE) and is a graduate of the National Fire Academy Safety Program Operations and in his second year of the National Fire Academy's Managing Officer Program. Captain Bator is also the recipient of Fire Officer of the Year in 2016 by the Broward County Fire Chiefs Association and Excellence Award by the City of Coral Springs in 2017. Captain Bator is the President and co-founder of the Florida Firefighters Safety and Health Collaborative (FFSHC) a non-profit organization committed to bringing Florida's Fire Service and Firefighter Safety and Health advocates together throughout the State to work together for the Safety and Health of Florida's Firefighters.

Benson, Jeb – Jeb Benson currently works for the NIST Public Safety Communications Research Program in Boulder, Colorado as the portfolio lead for location-based services and the program manager for the Public Safety Innovation Accelerator Program. He has 15 years of experience as a

Technology Lead, Engineering Manager, and RF Engineer with NIST and the Department of Defense researching, developing, and fielding innovative technologies, products, and systems for public safety and ISR applications. Prior to that, he worked for five years as a Research Biologist in Alaska. Jeb has a BS in Electrical and Computer Engineering from the University of Alaska-Fairbanks, and a BS in Environmental Science from Oregon State University. He is also a licensed Professional Engineer and a DAWIA certified Level 2 Science and Technology Manager.

Bernzweig, David - David Bernzweig has been in the fire service for 30 years, the past 23 with the Columbus (OH) Division of Fire, where he is currently serving as the Chief of Health, Safety, and Innovation. David is the Director of Health, Safety, and EMS for the Ohio Association of Professional Firefighters. He is a member of several NFPA Technical Committees including Occupational Safety and Health, and the Correlating Committee for Protective Clothing and Equipment, and Respiratory Protective Equipment. He also serves on the InterAgency Board (IAB), and the Health and Safety Committee for the Ohio Fire Chiefs Association. He is a Safety Officer for FEMA US&R Ohio Task Force One, and is a Fire Instructor for the State of Ohio. He has degrees in Political Science and Economics from The Ohio State University.

Buckman, John - John M. Buckman III is a former fire chief, national organization leader, author, trainer and professional photographer. He has published 8 books. Authored over 200 articles. Presented programs in all 50 states, each province in Canada, Australia, Dominican Republic and Beijing China. His most proud of the title Pawpaw. He has 6 grandchildren and 2 great grandchildren. He has served as a Fire Chief of a volunteer staffed fire department for 35 years. During that time the GTFD transitioned from an all-volunteer staffed FD to a combination system with paid personnel working Monday-Friday 7am to 5pm. He served as a state fire training director developing a new system from scratch. He served as President, International Association of Fire Chiefs - 2001/2002. During his tenure he testified before Congress multiple times and met with President George W. Bush. He is a co-founder of the Volunteer and Combination Officers Section and co-founder of the National Fire Academy Alumni Association. He has served as the leadership editor firechief.com since 2014. He has been a course developer - National Fire Academy. He co-authored the 3rd Edition of Recruiting, Training and Maintaining Volunteer Firefighters and served as Editor of the Chief Officers Desk Reference. He is a co-author of Lessons Learned from Fire Service Leaders and a contributing author - Pass It On

Burgess, Jefferey – Jefferey L. Burgess, MD, MS, MPH, is Associate Dean for Research and Professor at the University of Arizona Mel and Enid Zuckerman College of Public Health. His research focuses on occupational and environmental toxicology and reduction of exposures and injuries. In regards to firefighter safety and health, he has been carrying out research in partnership with fire departments for over 25 years, including intervention studies funded by the National Institute for occupational Safety and Health and the Federal Emergency management Agency to prevent injuries, as well as respiratory, cardiovascular, and cancer health effects.

Burkell, Chuck - Chuck Burkell of Gettysburg, Pa. has provided leadership, management, and organizational development assistance to public and private sector clients since the mid 1970's. The firm provides quality services in a variety of areas, including organizational analysis, organizational and cultural change, strategic planning, management and leadership development, service quality and customer service focus, and other human resource related activities. Mr. Burkell recently retired in December 2013 after 33 years of Federal Service at the Department of Homeland Security/Federal Emergency Management Agency/U.S. Fire Administration in Emmitsburg, Maryland. His Executive Education Programs responsibilities included the Executive Fire Officer Program (EFOP), the Executive Education curriculum, the Harvard Fellowship Program, and the EFOP Applied Research Project process. He had guided the EFOP since its inception in 1985. Mr. Burkell has presented seminars, workshops, and keynote presentations nationally in nearly every State and in

Canada. He has worked with many different public and private sector organizations within the areas of leadership, management development, and providing superior customer service. He has published numerous journal articles, and served on a number of national standards-making committees and sub-committees. He is a recipient of the International Public Safety & Leadership & Ethics Award in 2015, the International Association of Fire Chiefs President's Award (2010), and in 2011 was awarded the "Everett Hudiberg Award" from Fire Protection Publications/International Fire Service Training Association. Mr. Burkell has earned an AAS in Fire Technology, a BS in Technical Education, and a Masters of Business Administration. He has served as Associate Professor at Mt. St. Mary's University, instructing the Independent Research Course within the Graduate Program of Business. Mr. Burkell is a Licensed Battlefield Guide at the Gettysburg National Military Park having received his license from the National Park Service in January of 2014. He currently is a consultant to FCC Services of Denver Colorado and faculty member of The Gettysburg Leadership Experience that uses the Battle of Gettysburg as a tool for leadership development. He has provided interpretive services for hundreds of executives and managers on the fields of Gettysburg in efforts to help them exercise leadership more effectively.

Caban-Martinez, Alberto Juan – Dr. Alberto Juan Caban-Martinez, Do, PhD, MPH, CPH, is a Research Associate of Environmental Health and an Assistant Professor in the Department of Public Health Sciences, University of Miami Miller School of Medicine in Miami, Florida.

Collet, Ed - Ed Collet is a firefighter/EMT with Jackson Township in Stark County, Ohio. He is the lead instructor for Bowling Green State Fire School pump operations class which covers engine operation and water supply in the urban and rural setting. As a co-chair of the Ohio Fire Chiefs Association Water Supply Technical Advisory Committee he helps to develop and spread best practices for water supply throughout the state. He is involved in researching methods to better understand the performance of tenders to enhance water supply efficiency. As recipient of the 2018 ISFSI Emerging Instructor Scholarship and presented Engine Pre-Planning: Key to an Operator's Success at FDIC. He has been published in Fire Apparatus Magazine. Ed has a Bachelors in Mechanical Engineering from The University of Akron.

Cooper, Kristopher – Firefighter Kristopher Cooper, with the City of Springfield Fire Department, has eight years of service.

Curl, Larry – Retired Fire Chief Larry Curl is from the Wayne Township Fire Department in Marion County, Indiana.

Dreiman, Brandon - Brandon Dreiman, JD, EMS-P, is a Captain and 18-year veteran of the Indianapolis Fire Department where he serves as Coordinator for the Office of Firefighter Wellness & Support. He travels the United States lecturing on behavioral health topics, and as an IAFF Peer Support Master Instructor, assists fire departments with creating peer support programs. Dreiman is also an attorney. Prior to joining the fire service, he worked as deputy prosecutor in southern Indiana.

Eaton, Sam - Samuel A. Eaton began his career 33 years ago in EMS and 26 years ago as a career firefighter. He came into the fire service as a Paramedic with a background as a Training Captain with an EMS Provider. He has served as a fire officer for 20 years in the ranks of LT, Captain, EMS Captain and for the past 10 years as an operations Battalion Chief for Palm Beach County Fire Rescue. He has promoted education throughout his career and been an educator in EMS and Fire as well as active as an American Heart Association in BLS and ACLS instructor. He has taught for Palm Beach State College and JFK Medical Center's education department. Chief Eaton has an A.A. degree from Palm Beach State College. Over the past decade he has helped to create awareness on the

epidemic issue of fire service related cancer and is a founding co-chair of the organization F.A.C.E. Firefighters Attacking the Cancer Epidemic. Chief Eaton serves as a Director for the Florida Firefighters Safety and Health Collaborative (FFSHC).

Fent, Kenneth – Kenneth Fent obtained his MS and PhD in Environmental Sciences and Engineering from the University of North Carolina at Chapel Hill. Dr. Fent joined NIOSH in 2008, where he currently works as a research industrial hygienist. He is also a Commander in the U.S. Public Health Service. Much of Dr. Fent's research has focused on assessing dermal and inhalation exposures to combustion byproducts in firefighters. He has published over 45 technical reports and journal articles, and has presented his findings nationally and internationally.

Frantantaro, Joe - Joseph W. Frantantaro is a Community Hazard Mitigation manager at ISO, a member of the Verisk Insurance Solutions group at Verisk Analytics. He has been with ISO for 18 years and was a principal member of the FSRs revision team. He has 36 years' experience in emergency services and was the fire training coordinator for the Bucks County Emergency Services Training Center in Bucks County Pennsylvania. He is a certified Fire Service Instructor and Fire Company Officer.

Frantz, Jim – Jim Frantz has been a firefighter with the Springfield Fire Rescue Division in Springfield, Ohio since 2008. Jim began his professional fire service career in 2003 with Howard County Fire & Rescue in Howard County, Maryland. In addition to being a firefighter, Jim holds certifications in a number of additional disciplines, including Hazmat, vehicle/machinery extrication, high-angle rescue, trench/collapse rescue, confined space rescue, ice/water rescue, urban search and rescue, and structural collapse rescue. He is also a Paramedic and Fire Service Instructor. Jim has been an advocate of the future development of the Division as a member of various committees, including Safety, Uniform, Labor/Management, Contract Negotiations, Strategic Planning, and Apparatus Specification. Jim and his wife have been married for 23 years, with a son and a daughter. He is devoted to his family and believes that it is our responsibility to our families at home, our brothers and sisters on the job, and the citizens we serve, to stay current and educated for the ever-changing environment.

Hardwick, Kevin – Chief Kevin Hardwick, OFE, OFC is the Chief of the Glendale Fire Department.

Holman, Tim - As a Firefighter/Paramedic, Tim has been responding to all types of emergencies for the past 43 years. He is a certified firearms instructor, firing range officer and Ems instructor. He is certified in SWAT tactics and has extensive training in active shooter response skills. Tim graduated with honors from Ottawa University in Kansas and has presented training programs throughout the United States. He is a member of the International Association of Fire Chiefs (EMS Section and VCOS Section), the Ohio Fire Chiefs Association, American Society for Training and Development and the National Association of EMTs. Fire Chief Magazine named Tim Fire Chief of the Year for 2002. He is a past commissioner for The Center for Public Safety Excellence. He also serves as an advisory board member for Clark State Community College. He has written numerous articles for national journals and has published three books and co-authored two other leadership books. Tim's blog, tactical777.com, focuses on a variety of personal safety concepts.

Houk, Bill – Before his retirement in 2017, Bill Houk spent 34 years with the Jefferson Township Fire Department (Madison County), serving his last 16 years as Fire Chief. Bill has been involved with the Ohio Fire Chiefs' State Emergency Response System (ERS) since its inception in 2002. He started as a County Coordinator, and spent time as an Assistant Regional Coordinator before being appointed the State Coordinator. Bill has assisted with Ohio's EMAC efforts the last few years.

Johnson, Phil - Phil Johnson joined Ohio EMA in 2005 and currently serves as the Logistics Branch Chief responsible for the agency's logistics management functions. He also serves as the lead Logistics Section Chief during EOC activations. Prior to joining Ohio EMA, Phil worked with the Center for Domestic Preparedness as a lead trainer teaching first responders how to operate in a CBRN environment and with the Florida Division of Emergency Management as their Domestic Security Coordinator.

Magoteaux, Nick – Lieutenant Nick Magoteaux has 10 years of service and is currently with the Bethel Township Fire Department. He also serves as a consultant, and is a co-executive director for Brothers Helping Brothers.

McBride, Peter – Peter McBride is the Division Chief of Safety and Innovation with the Ottawa (Ontario) Fire Services. His mandate is to deliver service excellence by building a learning and safety culture for and with the 1,500 members of the Ottawa Fire Service. He led a \$1.2 million Canadian Safety and Security Program grant directed at the development of a fire dynamics program for the Canadian Fire Service entitled "From Knowledge to Practice," which addresses gaps between the science of fire dynamics and firefighting strategies and tactics; it includes operational industrial hygiene as part of the project objectives in advancing firefighters' understanding of fire literacy.

Menapace, Christopher - Assistant Chief Christopher Menapace began his career in the fire service in 1997 with the Homer Volunteer Fire Department and shortly after joined the Utica Volunteer Emergency Squad. He began his full-time career with the Mount Vernon Fire Department in 1999. In 2007, Christopher was appointed Assistant Chief of the Mount Vernon Fire Department and began his duties as Fire Chief in the summer of 2010. In summer of 2013, he left Mount Vernon Fire and began his tenure as the Assistant Chief for the Whitehall Division of Fire. Assistant Chief Menapace obtained his BBA from the Mount Vernon Nazarene University. He is an Ohio Fire Executive Class IX graduate. He holds certifications as a CFSI, EMS Instructor, Assistant Fire Instructor, as well as the standard FFII/EMT-P. He currently serves as a member of the Ohio Fire Chiefs and Emergency Services Foundation Board, is the Chair of the Ohio Fire Chiefs' Association Publication Committee, and is a Fellow of the Ohio Emergency Services Foundation. Assistant Chief Menapace also serves on the advisory board for the Ohio Fire Academy as well as Central Ohio Technical College's Public Safety Advisory Committee. He is regularly published in the Ohio Fire Chiefs' quarterly magazine, "In Command". Assistant Chief Menapace serves on all subcommittees of the Franklin County Opiate Action Plan. Assistant Chief Menapace has been married to his wife, Bridgette, for twenty-six years and they have 4 children. He and his family are long standing members of St. Vincent DePaul Catholic Church in Mount Vernon.

Mlakar, Scott - Scott Mlakar is Assistant Chief of the Willoughby (OH) Fire Department where he has served for 35 years. He is a paramedic, hazmat technician, technical rescue coordinator, and fire investigator. He serves on the Lake County Fire Chief's Special Operations Committee. He developed and oversees operations of the Lake County Public Safety Unmanned Aerial Systems (UAS) team, composed of fire and police officers. It provides UAS support to all of Lake County's emergency services and special teams.

Mortenson, Royal P. – Colonel Royal P. Mortenson was commissioned as a Marine Second Lieutenant in April 1983 and served with distinction around the world as an infantry officer. During his 29+ career, he commanded at the infantry platoon, company, battalion, and regimental level. In 2005, he assumed command of The Basic School at Marine Corps Combat Development Command, Quantico, Virginia. After The Basic School, Colonel Mortenson was assigned to the Joint Staff in Washington, DC, J5, Strategic Plans and Policies, where he served as the Central Asia/South Asia Division Chief. From July 2009 to April 2011, Colonel Mortenson served as the Chief of Staff for the

Commanding General Marine Corps Combat Development Command/Deputy Commandant for Combat Development and Integration, Quantico, VA. In his final year of service, Colonel Mortenson was the Director of the United States Marine Corps Command and Staff College, Marine Corps University, Quantico VA—a fully accredited Master's Degree granting institution. Colonel Mortenson assumed his current duties as the Director of the Illinois Fire Service Institute, University of Illinois-Urbana/Champaign in September 2012. He lectures and provides presentations nationally and internationally on leadership development, decision-making, and training. He is on the Board of Advisors for Leadership Under Fire, Inc. and is a consultant for Corps Leadership LLC. He is also on the Board of the North American Fire Training Directors, and is a member of the Illinois Terrorism Task Force and the Chair of that organization's Fire Service Committee. Colonel Mortenson's personal military awards include the Defense Superior Service Medal, the Legion of Merit with two gold stars in lieu of third award, the Bronze Star with (Valor device), Meritorious Service Medal with gold star, the Navy and Marine Corps Commendation Medal, the Navy and Marine Corps Achievement Medal, and the Combat Action Ribbon. Colonel Mortenson is married and has three children to include two sons that are active duty USMC infantry officers.

Ober, Mark - Chief Mark Ober recently retired as Chief of Anderson Township Fire and Rescue Department. Chief Ober began his career in 1976 as a volunteer firefighter with the Anderson Township Fire and Rescue Department and was appointed to a career position in 1977. Since 2002 Chief Ober has been instrumental in leading change for the Anderson Township Fire and Rescue Department, transitioning a combination fire department into a professional career fire department. He also serves as a current member of the Greater Cincinnati Hazardous Materials Team as their foam liaison. Chief Ober graduated from Class 3 of Ohio Fire Executive Program. He currently holds an Associate degree in Fire Science Technology, a Bachelor of Fire and Safety Engineering Technology degree and Master's Degree in Public Administration. Chief Ober enjoys instructing Fire Officer and Incident Command sessions. He enjoys his family, wife Brenda, three sons and daughter in-laws, 9 grandchildren and Americas past time, playing baseball.

Orphal, Jeffrey A. - Jeff has been involved in Prehospital Care since 1976. He received his Paramedic Certification in 1999 and his EMS Instructor in 2000. Jeff has taught many other programs such as ACLS, BLS, PALS, and ITLS. Jeff retired as a Shift Captain / Paramedic for the City of Wapakoneta Fire/EMS after 26 years and Critical Care Paramedic after 14 years. Jeff is now the Public Safety Program Manager for Apollo Career Center. Jeff duties includes managing the curriculums, lesson plans and syllabuses for the fire and EMS programs. Jeff is the Co-chairman of the Northwest Ohio Volunteer Fireman Association (NOVFA) BG Regional Fire School where there is an average of 1200 attendees over two days. Jeff is also the Training Officer for Ohio 1 Disaster Medical Assistance Team.

Peaslee, Graham – Graham Peaslee is an expert in experimental nuclear physics and has studied the presence of Per- and Polyfluoroalkyl Substances (PFAS) in various items, including dental floss and fast food wrappers, and he is currently conducting a study of PFAS in firefighter turnout gear. Graham speaks to the EPA's announcement to reduce exposure to PFAS, since they have been linked to prostate, kidney, and testicular cancers.

Pickering, David – Assistant Chief David Pickering is the Assistant Chief with the West Chester Fire Department.

Rampe, Tom - Tom Rampe, ISO Fire Protection Field Analyst-Community Hazard Mitigation Services, has 30+ years' experience in the fire service industry. From January 1986 to September 1995, he conducted on site insurance underwriting property surveys. Since September 1995, Rampe conducted on site surveys of cities, villages, and townships to determine public fire suppression

capabilities. This information is used by insurance companies in determining property insurance rates. He is a retired member of the Kalida Volunteer Fire Department, where he served 8 years as Fire Chief and 7 years as Assistant Fire Chief with certifications of Level II Firefighter, Certified Fire Safety Inspector, Certified Fire Instructor, and Medical First Responder.

Rupp, Scott - Scott Rupp is a Lieutenant with the Springfield Fire Rescue Division in Springfield Ohio. He currently serves as the department's training Lieutenant where he has the responsibility of training the department's members and managing the department's annual fire academy. Scott has served with Springfield since April 2000 and has worked as a firefighter since September 1998. Scott has served as a Fire Service Instructor since 2009 and as the conference coordinator for Springfield Professional Firefighters IAFF Local 333. He has taught for several institutions including The Ohio Fire Academy, Clark State Community College and Bowling Green State Fire School. Scott has developed numerous programs on fire development and fire ground strategies that are used to train the members of the Springfield Fire Rescue Division. He has also used these programs to help train departments surrounding Springfield. Scott serves as the lead chair for the Clark County Fire Instructor Work Group. Scott is a husband of over 18 years and a father of 2 young boys. Scott grew up in a fire service family under the guidance of a father that is still serving with over 46 years in the fire service and two older brothers who also serve as firefighters. Scott is a well-rounded and dedicated firefighter who serves his community and the members of the fire service with dignity and pride.

Schaefer-Solle, Natasha - Dr. Natasha Schaefer Solle is a Research Assistant Professor in the Department of Medicine at University of Miami Miller School of Medicine and Sylvester Comprehensive Cancer Center (SCCC). Dr. Schaefer Solle's research interests focus on occupational cancer risks and improving cancer screening in underserved communities. She has played a critical role in the conception of the Firefighter Cancer Initiative (FCI), a multi-faceted project funded by the state of Florida to study firefighters' exposure to carcinogens, examine their cancer risk, and develop methods of education about prevention and early detection. In this collaboration with the fire departments of South Florida, she has led three projects involving the epidemiology and cancer screening behaviors of active firefighters and is also a co-Investigator of a multicenter prospective cohort study focused on carcinogenic exposures and effects funded through FEMA with fire departments from South Florida, Tucson, Arizona and Boston, Massachusetts.

Sheppard, Vicki - Vicki Sheppard started her fire service career as a Firefighter/Paramedic in 1980 and was promoted through the ranks of Lieutenant, District Chief, Battalion Chief, and retired in 2010 as the Division Chief of the Training & Safety Division for Palm Beach County Fire Rescue. Her passion has always been a commitment to the health and safety of the 1,500 members in the department and the entire fire service. This led to serving on many local and state committees that shared the vision of firefighter safety. Vicki has an A.S. degree in Occupational Therapy, Emergency Services, a B.S. degree in Fire Engineering and a Master's degree in Environmental Management. Since retirement, Vicki has organized, and is the President of the Palm Beach County Firefighters Retiree Association, a 501c3 charity that maintains the brotherhood by supporting the health and welfare of local firefighters as well as the community we fought so hard to protect. Vicki Sheppard serves as the Secretary/Treasurer for the Florida Firefighters Safety and Health Collaborative (FFSHC).

Swanson, Jeff – Jeff Swanson, Retired Fire Chief/Administrator from Barrington Countryside FPD, Illinois.

Welch, Holly - Since May of 2018, Holly Welch has served as the Preparedness Administrator for the Ohio Department of Public Safety, Ohio Emergency Management Agency (Ohio EMA). Holly's duties

include overseeing the Radiological, Logistics, External Affairs, and Planning, Training & Exercise Branches of Ohio EMA. Nationally, Holly is a member of the National Emergency Management Association (NEMA) Emergency Management Assistance Compact (EMAC) Task Force and NEMA Legal Committee. Previously Holly was legal counsel for Ohio EMA and assisted with bringing in law enforcement through EMAC for the 2016 Republic National Convention.

Windisch, Fred – Fire Chief Fred Windisch, EFO, CFO, is the Chief of the Ponderosa Fire Department near Houston, Texas.

Zamiska, Nick - Nick has been in the fire service for 17 years, currently serving as the Fire Chief with the Brecksville Fire Department in Brecksville, Ohio. Nick is the Director of the Southwest Emergency Response (SERT) Hazmat Team and a Team Leader for the Cuyahoga County Type 1 Hazmat/WMD Team. He delivers a wide-variety of HazMat training all around the United States and teaches for Bad Day Training. He has a Bachelor of Science degree in Emergency Management from the University of Akron and a Master's in Public Administration degree from Columbia Southern University.