HAZARDOUS MATERIALS SEMINAR

April 13-15, 2018

The New York State
Academy of Fire Science
Montour Falls, NY 14865

An Office of the New York State Division of Homeland Security and Emergency Services
### Personal Information

<table>
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<tr>
<th>NAME (Last, First, MI)</th>
<th>FIRE DEPARTMENT ID #</th>
<th>COUNTY</th>
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<tr>
<th>TRAINING IDENTIFICATION NUMBER</th>
<th>SPONSORING ORGANIZATION</th>
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<th>HOME ADDRESS (Street, PO Box)</th>
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- [ ] CHECK IF NEW ADDRESS
- [ ] MALE
- [ ] FEMALE

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### Sponsoring Organization

- [ ] FIRE ACADEMY

**COURSE CODE #**

**COURSE TITLE**

**DATES:**

<table>
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<tr>
<th>01-09-0036</th>
<th>Hazardous Materials Seminar</th>
<th>April 13 - 15, 2018</th>
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### Course Registration

- **Note:** Payment MUST Accompany Registration
  - Registration Fee is MANDATORY AND NONREFUNDABLE

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<tr>
<th>NYS Resident - $25</th>
<th>Out-of State - $50</th>
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- Materials Fee (if applicable) payable upon arrival
  - See course description (may not include required text book)
  - Prerequisite Proof (if applicable)
    - Must accompany registration

### Academy Accommodations

- [ ] Resident – includes Meals & Lodging
- [ ] Commuter – includes breakfast & lunch
- [ ] Commuter dinner - $9/day (optional)

### Registration, Material and Accommodations Fees:

- Registration Fee (include w/registration)
  - $________

- Materials Fee (if applicable – payable upon arrival)
  - $________

- Accommodations Fee (payable upon arrival)
  - $________

- Optional commuter dinner(s)
  - $________

  **Total enclosed:**
  - $________

  **Balance due upon arrival:**
  - $________

### Payment Method

- Make checks, money orders & vouchers payable to: Academy of Fire Science

<table>
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<tr>
<th>VISA</th>
<th>MasterCard</th>
<th>Discover</th>
<th>Total Charge: $________</th>
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- Expiration Date

- Share room with: ____________________________

### Reasonable accommodation request:

__________________________

### Optional commuter dinner(s)

- Resident – includes Meals & Lodging
- Commuter – includes breakfast & lunch
- Commuter dinner - $9/day (optional)

### Note:

Due to participant demand, the deadline for all Academy course registrations is 20 days before the course start date. If your registration is not received by this deadline, we cannot guarantee placement in the requested course. Call the Academy for further information.
Personal Information

NAME (Last, First, MI) ____________________________

TRAINING IDENTIFICATION NUMBER ____________________________

HOME ADDRESS (Street, PO Box) ____________________________

CITY __________________ STATE __________ ZIP __________

☐ CHECK IF NEW ADDRESS ☐ MALE ☐ FEMALE

DAYTIME PHONE __________________ EVENING PHONE __________________

FAX # __________________ E-MAIL ADDRESS __________________

FIRE ACADEMY and Regional Technical Rescue
New York State Academy of Fire Science
600 College Ave., Montour Falls, NY 14865-9634
(607) 535-7136; Fax: (607) 535-4841

Sponsoring Organization

FIRE DEPARTMENT ID # __________________ COUNTY __________________

SPONSORING ORGANIZATION __________________

STREET ADDRESS, PO BOX __________________

CITY __________________ STATE __________ ZIP __________

FD PHONE# __________________ FD E-MAIL or FAX __________________

NAME/TITLE - HEAD OF THE SPONSORING AGENCY __________________

SIGNATURE - HEAD OF THE SPONSORING AGENCY ____________________________ Date __________

☐ FIRE ACADEMY COURSE CODE # COURSE TITLE DATES:

Hazardous Materials Pre-Conference April 13, 2018

Choose Check First Choice:
☐ Emergency Water Injection ☐ Risk Based Responses ☐ Rapid Intervention Consideration & Skills

Course Registration -
NOTE: Payment MUST Accompany Registration
Registration Fee is MANDATORY AND NONREFUNDABLE

☐ NYS Resident - $25 ☐ Out-of-State - $50

☐ Materials Fee (if applicable) payable upon arrival
See course description (may not include required text book)

☐ Prerequisite Proof (if applicable)
Must accompany registration

Academy Accommodations - payable upon arrival

☐ Resident – includes Meals & Lodging
☐ Commuter – includes breakfast & lunch
☐ Commuter dinner - $9/day (optional)

Registration, Material and Accommodations Fees:

Registration Fee (include w/registration) $__________

Materials Fee (if applicable – payable upon arrival) $__________

Accommodations Fee (payable upon arrival) $__________

Optional commuter dinner(s) $__________

Total enclosed: $__________

Balance due upon arrival: $__________

Reasonable accommodation request:

Share room with: ____________________________

Payment Method

Make checks, money orders & vouchers payable to: Academy of Fire Science

☐ VISA ☐ MasterCard ☐ Discover ☐ Total Charge: $__________

Card # ____________________________ Expiration Date ______/______ Security Code __________

Signature ____________________________

Please review the application to make certain it is complete and the required payment and prerequisite proof are enclosed.

This form is on the web at www.dhses.ny.gov/ofpc • MAIL OR FAX APPLICATION TO FIRE ACADEMY ONLY

NOTE: Due to participant demand, the deadline for all Academy course registrations is 20 days before the course start date. If your registration is not received by this deadline, we cannot guarantee placement in the requested course. Call the Academy for further information.
To the Office of Fire Prevention and Control:
The firefighter listed below is an active member of _______________________________ Fire Department, is at least 16 years of age, and is authorized to attend the course indicated below. I understand this training course may contain certain evolutions that simulate and/or create actual firefighting or rescue conditions. The Office of Fire Prevention and Control is not responsible and/or liable for any malfunction or damage to any equipment used during this training program.

Please print all information

Fire Chief Authorization

<table>
<thead>
<tr>
<th>Fire Department</th>
<th>FDID #</th>
<th>Date</th>
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Fill in yes or no

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<tr>
<th>The firefighter listed below has medical clearance to use Self Contained Breathing Apparatus, (SCBA), in accordance with 29 C.F.R. part 1910. 134.</th>
<th>YES</th>
<th>NO</th>
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<tr>
<td>The firefighter listed below is authorized to use SCBA and participate in interior/exterior firefighting evolutions.</td>
<td>YES</td>
<td>NO</td>
</tr>
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If you cannot answer the questions above because you do not know the requirements of 29 C.F.R. Part 1910 or do not know whether the firefighter listed below is authorized to use SCBA, please contact your County Fire Coordinator or OFPC.

Print Chief's Name

Chief's Signature

Course Information

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<th>Course Record #</th>
<th>Course Title</th>
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Student Information

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<td>Home Phone</td>
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<td>Zip</td>
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I, ____________________________, have read, fully understand and agree with above information. I understand and acknowledge the importance of safety during the training course and further acknowledge that if an instructor believes that my behavior or abilities may cause a safety risk to myself or another, the instructor has the authority to remove me from the simulation or course.

Signature of Firefighter

Date

And, if firefighter is 16 or 17 years old, the following consent must be provided:

I, ____________________________, parent or legal guardian of ____________________________, consent to his/her participation in the training listed above. I have read, fully understand, and agree with the above information. I understand and acknowledge that safety is important during the training course and further authorize the instructor to remove ____________________________ from the simulation or course if the instructor believes that his/her behavior or abilities may cause a safety risk to himself/herself or another.

Signature of Authorized Legal Guardian

Date

Printed Name

Relationship to Firefighter

Please Note: No persons under the age of 16 may attend or participate in any training course delivered by the Office of Fire Prevention and Control. Additional copies of this form are available at http://www.dhsses.ny.gov/ofpc
Emergency Water Injection

What is Emergency Water Injection? It’s the process of forcing water into a propane tank to convert an uncontrollable liquid leak into a water leak. Water injection gives you a tactical option that otherwise doesn’t exist.

An example where water Injection would be a useful tactic would be an accident where a motor vehicle struck a tank causing a liquid leak. Another would be a tank that’s rusted through the bottom releasing product. Whatever the reason, an uncontrollable liquid propane leak has the potential to create a massive explosive vapor cloud that could cause large areas evacuations.

This “Emergency Water Injection Course” consists of classroom instruction using on screen presentations, display props and product demonstrations. Topics of discussion include: propane properties, when to and when not to use water injection, vehicle orientation, plumbing/piping systems, assortment of tank options/attachment points, valving, weight issues, pressure management, transportation options, kit components, kit application, pressure gauge verification, liquid volume and temperature control and more.

During the second portion of the course the students will get real world hands on experience building on what was learned in the classroom by connecting the kits components to an assortment of available tanks or cylinders. If live releases are a possibility (local restrictions dependent) the students will be provided the opportunity to connect and function a kit. The student will experience firsthand the limitations caused by system restrictions that limit flow, the importance of managing product levels and how temperature and pressure information is applied. We include basic Flaring demonstrates as an additional product management option. This course is designed to provide the student with the information needed to respond to, connect and manage water injection into a live propane tank and utilize flaring as a product removal option.

PREREQUISITES: Hazardous Materials Technician – Basic or HMT Modules 1 and 2, Training Authorization Letter
AUDIENCE: Technicians
PRESENTER: Ronald Huffman, Senior Instructor/Owner, Responder Training Enterprises, Shirley, IN
OFFERING: Friday 8:00am – 4:30pm  *NOTE FULL DAY
Essential Knowledge for Risk Based Responses at Hazmat Incidents

The demonstration / lecture will include the Dynamic Tendencies of flammable liquids and explosive flammable gasses as well as VCE (Vapor Cloud Explosion) properties and demonstrations. Additionally, the lecture will focus on importance and fundamentals of atmospheric monitoring during responses to hazardous materials and WMD events. Some of the topics covered are; Vapor Pressure, Boiling Point, LEL / UEL Lower Explosive Limit, Upper Explosive Limit) Flash Point, Vapor Density, Reaction Rate, Correction Factors, Molecular Weight, Understanding PPM, and Risk Based Response. These high energy, fast paced demonstrations will leave the audience / students with a keen awareness of street smart chemistry of hazardous materials and how to apply physical and chemical properties to Risk Based Emergency Response!

PREREQUISITES: Hazardous Materials Technician – Basic or HMT Modules 1 and 2
AUDIENCE: Technicians
PRESENTER: Brian Ramsey, Blountville, TN
OFFERING: Friday 8:00am – 12:00pm

Hazardous Materials Rapid Intervention Hands on Skills

This training offering will be an introductory version of the OFPC 16 hour Hazardous Materials Rapid Intervention Team (RIT) Course (01-09-0114).

During this course, students will identify tools and staffing requirements for RIT operations during a hazmat incident. Students will learn how to develop a rescue plan for an injured or trapped responder, move a responder up and down stairs, down through a hole, or out of a window, and lower a responder off of objects such as rail cars and cargo trucks. Students will also demonstrate various techniques to supply air to downed responders in low and no air emergencies. This training will require students to perform practical evolutions with self-contained breathing apparatus (SCBA) and Level A PPE.

PREREQUISITES: Hazardous Materials Technician – Basic or HMT Modules 1 and 2, Training Authorization Letter
AUDIENCE: Practicing Hazmat Technicians
PRESENTER: David Harrington, Fire Protection Specialist, New York State OFPC
OFFERING: Friday 8:00am – 12:00pm
CAMEO - Marplot - Aloha
You will learn 'hands on' CAMEOfm, which is a database application where you can keep track of information (such as chemical inventories and contact information for facilities) to assist in emergency response and planning in your local community. It is especially useful for managing data required under the Emergency Planning and Community Right-to-Know Act (EPCRA).

Additionally, you will learn how to gain intelligence by integrating MARPLOT and ALOHA into your response. MARPLOT is the mapping program for the CAMEO® software suite, which is used widely to plan for and respond to chemical emergencies. ALOHA is the hazard modeling program which is used widely to plan for and respond to chemical emergencies.

AUDIENCE: Hazmat Technician, HazMat Safety Officer, HazMat Officer, Incident Commander
PRESENTER: Stefan Coutoulakis, EPA Certified Trainer

Decisions, Decisions, Decisions...Using Detection as a Strategy
You’re on scene and you have to start making quick decisions based on the information you are receiving from the entry team. Or you’re the entry team and you’re making the decisions based on the numbers you’re receiving. This presentation is built around the idea of looking at detection as a strategy, one that will guide the responder down the path of potential hazard possibilities. We will introduce a suite of informational means as a toolbox, to guide the instruction towards understanding air monitoring and detection within real time environment. Through the use of simulated environments and real-time detection simulation. We will review basic monitoring principles as they are applied to the chemical and physical properties.

AUDIENCE: Hazmat Technician, HazMat Safety Officer, HazMat Officer, Incident Commander, EMS
PRESENTER: Toby Bevelacqua, Murphy Bevelacqua Consultants, Orlando, FL

Demystifying the Operational Response to Fentanyl and Fentanyl Analogs
Fentanyl and fentanyl analogs are quickly becoming the most common high hazard response. However, there are many ways that the overall risk can be managed. Recognizing and understanding the threat is critical to determining the appropriate response. Using the known facts about fentanyl and its analogs (such as solubility, toxicity, degradation pathways, and others), operational response protocol will be presented for detection, identification, protection from, decontamination, and destruction of fentanyl-based materials. These simple response protocols and resultant example operational guidelines will assist responders in safely and effectively responding to this high hazard threat.

AUDIENCE: All
PRESENTER: Dr. Christina Baxter, Emergency Response Tips, LLC, Atlanta, GA

DOT Class 4 and other Weird Materials
Class 4 Flammable Solids, Pyrophorics and Water Reactives are highly reactive materials present unique hazards for the Hazardous Materials Responder. Understanding the properties of Flammable Solids, Pyrophorics and Water Reactives is critical to successful response. This class covers Chemistry, Toxicology, Containers and Emergency Response to these unusual and highly reactive materials.

AUDIENCE: Technicians, EMS, Command
PRESENTER: Barry Lindley, Specialized Professional Services, Inc., Charleston, WV
Hazmat Antidotes and Medical Support of the Hazmat Team
This course covers the treatment of exposures to cyanide, hydrogen sulfide, organophosphate pesticides, nerve agents, and hydrofluoric acid, including indications, contraindications, dosing and special considerations. We will also discuss pre-entry physical exams and medical support of hazmat team members.

**AUDIENCE:** Hazmat Technicians, EMS, Decontamination, Command

**PRESENTER:** Mark Vedder, Team Leader, Cuyahoga Co. Hazmat/CBRNE Response Team, Chagrin Falls, OH

Hazmat Mad-Libs
This presentation is designed to help the hazmat member better understand the “why” behind what we do. It’s an interactive class that starts off with the class giving words to fill in the blanks, and as the story unfolds, the real questions begin. The stories are never the same and anything can happen. The audience will have various reference books to help them come to a final answer, and we will consider all aspects of the fictional incident from the operations level through specialist and incident command.

**AUDIENCE:** All

**PRESENTER:** Bobby Salvesen, FDNY, ‘The Hazmat Guys’

Hazmat Suit Emergencies
It is important to understand the vulnerabilities of different levels of suits to best select the right tool for the job. This course covers what to do when things don’t go ‘as planned’ and you, your partner, or the entry team that you are going in to get have a suit emergency. With a focus on the reality and the timeliness required to react, this presentation will provide you with operational readiness should the situation occur.

**AUDIENCE:** Technicians, Entry, Decon, EMS

**PRESENTER:** Mark Vedder, Team Leader, Cuyahoga Co. Hazmat/CBRNE Response Team, Chagrin Falls, OH

How Not To Suck When Teaching Hazmat
We’ve all been to a class where the teacher was more toxic than the chemicals being discussed. We like to call this ‘Acute Toxic Instructor Syndrome’. In this course, we discuss different methods of instruction that will help keep students more engaged. We outline various methods that can help ensure key points are remembered by attendees and that attention is maintained throughout the duration of any lecture. This class will transform the way you instruct, change the way your students learn, and raise the hazmat training of your department.

**AUDIENCE:** Command, Instructors (present and future)

**PRESENTER:** Bobby Salvesen, FDNY, ‘The Hazmat Guys’

Large Scale Incident Management: From Initial Response to Conclusion
While most incident command courses start with a large scale incident, few recognize that the incident will begin with a single responder and escalate. This program will guide participants from initial response, transition to command, integration of incident management assistance teams, and the de-escalation process. Participants will develop an appreciation for the multiple roles and competing priorities balanced by command teams and build an understanding of the inter-connected role of events and the potential impact of cascading events on an incident.

**AUDIENCE:** Command, Resource Officers, Hazmat Technicians, Logistics Officers

**PRESENTER:** David Donohue, Hagerstown, MD
Leadership Isn’t Managing. Secrets of Leading Teams
This dynamic, hands on, activity based presentation will focus on leadership principles utilized in the military service. Using games, role playing activities, and case-studies, the concepts of leadership are driven home. If you are hoping to attend a lecture and sit quietly, this is not the program for you. Instead, you will be faced with a series of challenges which, when conquered, will provide leadership building blocks that you can add to your tool box.
AUDIENCE: All
PRESENTER: David Donohue, Hagerstown, MD

Lions, Tigers, and Bears: Post Fire and Incident Air Monitoring
This presentation will outline the dangers of the post fire environment. It will discuss current practices, and why HCN and CO monitoring is not the answer. It will also outline industry best practices and a detailed overview of the hazardous chemicals that exist in the post fire environment, and a brief overview of these chemicals toxicity.
AUDIENCE: Operations, Command, EMS
PRESENTERS: Steve Clark, Hamilton, Ontario Fire Department; Connor Hadaway, Ontario Provincial Police

NFPA 472/473 Updates
The utilization of a “Risk Based Response” process where decisions are made based upon facts, science and circumstances of an incident is a recommended practice at HazMat/WMD incidents. The four components of risk are incorporated into the risk based response process and then applied to simulated and actual incidents referencing smart practices. Competencies referenced in the proposed 2017 version of NFPA 472 for Hazardous Materials Technicians with an Advanced Chemical Risk Assessment and Analysis Specialty are incorporated into this workshop.
AUDIENCE: Technicians, Command
PRESENTER: John Montes, Emergency Services Specialist, NFPA, Quincy, MA

Physical and Chemical Properties – ‘The Fun Side of Hazmat Chemistry’
This 90 minute fast paced demonstration of physical and chemical properties will help emergency responders understand how hazardous materials behave. During this demonstration, definitions such as “flash point”, “vapor pressure”, “boiling point”, and flammable range will come to life!
AUDIENCE: Hazmat Operations, Hazmat Technicians, All
PRESENTER: Brian Ramsey, Blountville, TN

Propane Leak Mediation Using “Water Injection”
What is Emergency Water Injection? It’s the process of forcing water into a propane tank to convert an uncontrollable liquid leak into a water leak. Water injection gives you a tactical option that otherwise doesn’t exist.

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**AUDIENCE:** Technicians  
**PRESENTER:** Ronald Huffman, Senior Instructor/Owner, Responder Training Enterprises, Shirley, IN  
**OFFERING:** Saturday 8:00am – 4:30pm *NOTE FULL DAY** ALSO OFFERED AS PRE-CONFERENCE FRIDAY

**Pseudoscience and Myths of Hazmat**  
This session goes through the false facts that have become the foundation to much of our best practices and training in the hazmat community. Several common myths are identified and we break them down to their origin. Within every false claim is a hint of truth, and we will use science and demonstration (live or video) to help find the blurry line that delineates fact from fiction.  
**AUDIENCE:** All  
**PRESENTER:** Bobby Salvesen, FDNY, ‘The Hazmat Guys’

**Railroad 301 – Responding to Locomotive Emergencies**  
The CP Railroad 301 (RR301) addresses emergency responder awareness and safety while working on and about the tracks initially, then provides a focused look at the unique aspects of dealing with locomotive emergencies. Locomotive emergencies provide challenges to the first responder due to the limited access/egress points, materials of construction and operating components that may be involved. Students will learn what hazards are encountered and how to best handle these hazards including: types of locomotives, emergency shut down procedures, electrical disconnects, braking systems, and best firefighting tactics. The students will then have an opportunity to participate in hands on extrication of a patient from the cab of a locomotive from CP’s one of a kind locomotive simulator.  
**AUDIENCE:** Operations, Command  
**PRESENTERS:** Clemens Schimikowski and Ed Dankbar, Canadian Pacific Railroad

**Response to Emerging Threats**  
The threats to which you must be prepared to respond have evolved significantly over the past few years. This presentation will focus on the evolving threat (Chemical Warfare Agents, Drugs, Homemade Explosives, Chemical Suicides, Ebola, etc.) and how you, as responders, must evolve in your response capabilities to meet these threats. Recognizing and understanding the threat and the risk that it poses is critical to determining the appropriate response. Using the known facts about the threats (such as solubility, toxicity, degradation pathways, and others), operational response protocols and technology solutions will be presented for detection, identification, protection from, decontamination, and destruction of threat materials.  
**AUDIENCE:** Technician, Command, Resource Officers, Command  
**PRESENTER:** Dr. Christina Baxter, Emergency Response Tips, LLC, Atlanta, GA
Response to Monomers and Polymers
What is a Monomer and how does it become a polymer? What are the properties and hazards of Monomers? How can I prevent that monomer from becoming a runaway polymerization? What is an inhibitor and why do we use them? What are the hazards of Polymers?

AUDIENCE: Technician, Command, Resource Officers
PRESENTER: Barry Lindley, Specialized Professional Services, Inc., Charleston, WV

Risk Management Decision Support Tools
The Emergency Response Decision Support System (ERDSS, formerly known as the Chemical Companion) is a software tool which is FREE for first responders in the United States and partner countries. ERDSS provides decision support for hazardous materials response, firefighting, explosive ordnance disposal operations, and forensics. In addition to a large database of chemical properties, the system also includes calculators for absorption, pH neutralization, detector response, heat stress work rest cycles, respiratory canister life, and more. Decision support tools include detection environments, respiratory protection, clandestine laboratory identifier, decontamination (skin, object), and more. This course will walk the users through the system capabilities teach students how to employ the software, and work examples of use scenarios.

AUDIENCE: Command, Hazmat Technicians
PRESENTER: Dr. Christina Baxter, Emergency Response Tips, LLC, Atlanta, GA

Tank Car Damage Assessment
Security & Emergency Response Training Center (SERTC) will provide training on an understanding of Tank Car properties, determining damage and what to look for, and how to safely respond to a derailment or tank anomaly.

AUDIENCE: All
PRESENTER: Tim Spires, SERTC, Pueblo, CO

The Problem with Pentane
Most fire departments will respond to flammable gas emergencies. Natural Gas is typically the most common flammable gas that fire departments will respond to. This presentation outlines the risk that a LEL sensor may not respond to Natural gas (and various other products) when calibrated to Pentane. This class will outline the why and how of this phenomenon, as well as corrective actions that can be taken by a fire department to ensure sensor response in an emergency.

AUDIENCE: Operations, Command, EMS
PRESENTERS: Steve Clark, Hamilton, Ontario Fire Department; Connor Hadaway, Ontario Provincial Police

What Could Possibly Go Wrong?!?!
This session walks through several scenarios with discussion about each potential outcome. It looks at the group leader and the safety issues that one would have to identify during an event. Given a set of scenarios, the participant shall: A. Derive an action plan based upon researched or information present; B. Use a detection strategy based upon the scenario dynamics; C. Describe the safety strategy which can be utilized using NFPA as a backbone; D. Describe the safety concerns within the given scenario; E. Describe the mitigation strategy based upon information present.

AUDIENCE: Hazmat Ops/Tech, HazMat Safety Officer, HazMat Officer, Incident Commander, EMS
PRESENTER: Toby Bevelacqua, Murphy Bevelacqua Consultants, Orlando, FL

Exhibitors
The exhibitors area will be open Friday 04/13 from 12:00pm to 5:30pm and Saturday 04/14 from 08:00am to 5:30pm

Banquet
A banquet dinner at the Fire Academy Friday night, which is a great opportunity to meet and greet fellow hazardous materials responders from across the state.
2018 PRESENTER BIOGRAPHIES

Dr. Christina Baxter, Emergency Response TIPS, LLC, Atlanta, GA
Dr. Baxter is the CEO of Emergency Response Tips, LLC, and pas Program Manager for the CBRNE subgroup at the Technical Support Working Group (TSWG), a program element within the DoD’s Combatting Terrorism Technical Support Office (CTTSO). The TSWG CBRNE subgroup works closely with the interagency user community from all levels of government and with various international partners to provide timely solutions in the areas of CBRNE attribution, protection, detection, consequence management and information resources. She is currently the chairperson of the NFPA Hazardous Materials Protective Clothing and Equipment Technical Committee and is a member of many others. She has over 20 years of fire and hazmat experience.

Armando S. Bevelacqua is 37 plus year veteran of the fire service and the recipient of the 2010 “In the Zone Award” and the “Level A Award” for leadership, service and support in education of the hazardous materials first response community, and the Dieter Heinz 2016 instructor of the year award. Retired from City of Orlando Fire Department, Orlando Florida where he served as Chief of Special Operations, Homeland Security and Medical Command. Armando also teaches at local colleges, instructing Fire and EMS Classes. He writes free-lance, publishing articles and educational textbooks. He is published with topics on report writing for EMS providers, Emergency Medical Response to Hazardous Materials Incidents, Hazardous Materials Field Guide and Terrorism Handbook for Operational Responders and a Chemistry book geared for the first responder. He has been presented nationally on several controversial issues in the disciples of Technical Rescue, EMS, Hazardous Materials and Management. Armando lectures to fire departments throughout North America, Canada and Europe. He is an adjunct instructor for the National Fire Academy, additionally a WMD/Haz-Mat instructor for the Federal Bureau of Investigations along with an international initiative involving WMD Counter proliferation in former Soviet Union States through the Department of Defense as well as with several federal agencies involved with forced protection. Chief Bevelacqua serves on several federal, state and local committees. He holds membership to the Inter-Agency Board (IAB) for Training and Exercise development - IAB discussing issues affecting USAR and HazMat deployment, and training as it relates to terrorism and which have developed the national “Selected Equipment List” (SEL) for first responders. Technical Consultant and member to the NFPA 472, 473, and 475 Technical Committees along with representation on the ASTM standards development committee for emergency response. Chief Bevelacqua has assisted in the development of standards and protocols such as with Rocky Mountain Poison Control for the development of standardized Medical Protocol for the WMD event and for the State Department for WMD training of embassy delegates and seasoned responders to the ever-advancing technologies that are entering the first response arena.

Stephen Clark is an Acting Captain with the City of Hamilton Fire Department, and member of the Hazardous Materials Team.

Stefan Coutoulakis is a returning EPA-certified CAMEO Instructor. With many years experience teaching higher-level technologies for forecasting chemical and environmental models, Stefan will provide the participants with real-world application of these assets.
Ed Dankbar: Canadian Pacific Railroad (CP), Hazardous Materials Officer- Based out of St Paul, Minnesota, Ed covers US West, North Dakota, Minnesota, Western WI, and Northern IA as his primary response areas while backing up the other States and Canadian Territories that CP covers with its 14,000+ miles of track. CP Hazardous Materials Officers respond to all types of emergency incidents that occur on the railroad including derailments of hazardous and non-regulated commodities, Non-Accidental Releases (NAR) and ensure shippers are meeting the regulatory requirements for proper shipping of these materials. When not responding, the Hazardous Materials Officers regularly instruct at various State, Regional and National venues and ensure that all of the companies rail assets are response ready. Ed graduated from Lake Superior State University in Sault Ste. Marie, Mich., with a bachelor's degree in Fire Science. Ed started with CP in 2007 as an overhead lift operator loading and unloading highway trucks and intermodal trains at CP’s Shoreham intermodal terminal in Northeast Minneapolis. Later Ed transferred to the mechanical department at CP’s St. Paul, Minn., yard as an apprentice Carmen, and worked his way up to relief foreman, and later to train servicing foreman. Ed joined CP's Hazmat team in 2013. Ed has been a volunteer fireman in the Twin Cities for the past 9 years.

Dave Donohue has been an emergency responder and hazardous materials technician for well of 30 years, serving as a local, regional, and federal level responder. In addition, he is a retired Chief Marine Sciences Technician for the US Coast Guard, having, serving over 25 years, serving in both combat zones and some of the largest disasters in US history. He is the Altos Tendos award recipient from the U S Coast Guard Chief Petty Officers Academy

Connor Hadaway is a Provincial Constable with the Ontario Provincial Police.

David T. Harrington has been a Fire Protection Specialist with DHSES – Office of Fire Prevention and Control since 2014. He works in the Special Operations Branch where he is a FAA, Part 107 certified, sUAS (small, unmanned, aerial system) drone pilot and teaches hazardous materials and technical rescue courses. David is a Hazardous Materials Technician and Cargo Truck Specialist and has been a firefighter for 21 years; he also has experience in 911 public safety communications, building inspection and EMS.

Ronald “Ron” Huffman has instructed students for the fire service, business, industrial, EMS and government agencies including law enforcement for over 20 years. He is a strong advocate of training and responder safety, as the Counties Emergency Management Director he has been instrumental in the design and creation of the County’s first Emergency Services Training Center. Mr. Huffman holds several certifications including Fire Investigator, Fire Inspector, Safety Officer, IMT-SOFR, Hazmat Technician, EMT-B, Rope Rescue Technician, PIO and more. He opened Responder Training, Inc. in 1989 to take what he was learning at Paul Akers and share it through classroom and hands on skills with all responders. To date he has trained career, volunteer and industrial fire fighters in the art of assessment, approach and management of multiple types of propane incidents along with many other courses. Past Battalion Chief “A” shift, New Castle Fire Department Local 1722 – on the job since 1989 Has held the rank of Firefighter, Driver, Lieutenant and Battalion Chief.
Barry Lindley is with Specialized Professional Services, INC. He is a NBFSPQ Level I and II fire instructor, HAZMAT Technician, Branch Officer, and Branch Safety Officer. He was formerly with DuPont and Chemours for 37 years. He is a team leader, safety officer, chemist and Instructor. Barry has worked on IFSTA's Hazardous Materials Publications Committee for Awareness, Operations and Technician.

Brian Ramsey was born and raised in Northeast Tennessee, he has over 25 years of emergency response experience in the following disciplines; Industrial, Municipal, and Emergency Response Contractors. In addition to providing emergency response chemistry / hazardous materials training he currently works as an emergency response manager for a fortune 500 specialty chemical company and part time high hazard emergency response specialist for HEPACO Inc. Charlotte NC. Mr. Ramsey is an IFSAC Journeyman fire fighter, Tennessee Emergency Medical Technician, Hazardous Materials Specialist, and Emergency Response Transportation Specialist.

Bobby Salvesen, FDNY: Having served 19 years as a member of FDNY, he is currently assigned as a HazMat Specialist for HazMat Company 1. He is also an Ex-Chief of the East Meadow Volunteer Fire Department, currently serving as a Training Officer. He is Co-Host of “The HazMat Guys Podcast” and “The HazMat Guys Nation Roundtable”, which can be found at www.thehazmatguys.com. Bobby has also served for 10 years as an instructor with the Nassau County Fire Service Academy and was just recently hired as a part-time state fire instructor.

Clem W. Schimikowski, Canadian Pacific Railroad (CP), Hazardous Materials Officer - Based out of Albany, New York, Clem covers the Northeast US, Provenience Quebec, Indiana and Detroit as his primary response areas while backing up the other States and Canadian Territories that CP covers with its 14,000+ miles of track. CP Hazardous Materials Officers respond to all types of emergency incidents that occur on the railroad including derailments of hazardous and non-regulated commodities, Non-Accidental Releases (NAR) and ensure shippers are meeting the regulatory requirements for proper shipping of these materials. When not responding, the Hazardous Materials Officers regularly instruct at various State, Regional and National venues and ensure that all of the companies rail assets are response ready. Prior to working with CP, Clem served in the fire service – beginning with being a Charter member of IAFF Local I-65 at the Albany International Airport where he was a part of the formation of the department’s hazardous materials unit. Then moving to Atlanta, Georgia to IAFF Local 1492 and assigned to Company 19, Heavy Rescue/HazMat, where he worked his way to being the HazMat Training Coordinator. In his off time in Atlanta, he worked as an Emergency Response Manager for HEPACO, a private industrial response company responding to hazmat incidents from NY to Florida. Clem now spends his free time serving his community in New York as an Elected Fire Commissioner and enjoying being a Commercial Boat Captain aboard his tug boat “Tug-Ski”.

Mark Vedder: With over 25 years of emergency response experience, Mark is Assistant Fire Chief, Chagrin Falls(OH) Fire Department; Hazmat/WMD Specialist; Chagrin(OH)/SouthEast Hazmat Team Leader of the Cuyahoga County(OH) Hazmat/CBRNE Response Team.