The 8th Annual Florida Hazardous Materials Symposium

Register at: http://www.flhazmatsymposium.org/

January 21-24, 2020
The Plaza Resort and Spa
600 N. Atlantic Ave.
Daytona Beach, Florida 32118

Full Conference Catalog

The Conference Includes:
Classroom, Practical/Hands-On Training, Team Competition, and Exhibits
Welcome to the 8th annual Florida Hazardous Materials Symposium in beautiful Daytona Beach! The 2020 HazMat Symposium will be the best so far!

This year, the HazMat Symposium received over eighty-two presentation proposals for courses to be taught at the symposium. Sixty-eight of those courses were accepted for a total of 236 hours of hazardous materials training. We are honored to have some of the world’s leading instructors teach at the conference this year. These instructors travel to our conference with a heart to educate and equip first responders, first receivers, and industry professionals with knowledge to respond safely and efficiently to hazardous materials incidents. The passion and dedication that these men and women have to teach at the symposium is what allows us to stand-out from any other event offered in the state. In addition, the Symposium is known for the annual Hazardous Materials Team Competition. This event is provided each year by Response Technologies. This competition continues to challenge our teams and offer an event that is competitive, educational, and fun.

What would a conference be without the opportunity to network with other responders from around the world and businesses who provide us with life-saving equipment and tools for our toolbelts? Join us on Tuesday night for our vendor showcase where you can enjoy networking with other responders to share best practices and with vendors providing products and services.

Join us Wednesday morning in the main ballroom for the opening ceremony. This year’s Key Note speaker will be guaranteed to knock your socks off. You don’t want to miss this event and enjoy the FREE breakfast. Wednesday afternoon will be filled with quality coursework. On Wednesday night we will have an awards ceremony to honor our top Hazardous Materials Teams from the competition. Come celebrate and lets’ see who will be this years’ Top HazMat Responders and Top Teams.

If that wasn’t enough, on Thursday we offer courses that are focused on practical application and hands-on training. Time to put that knowledge to application and get little dirty. We are offering more practical application training this year than ever before and the instructors for these courses are the top leaders in their fields. These classes are possible through the efforts of Seminole County Fire Rescue Special Operations and the Volusia County Fire Rescue Training Center who provide equipment, resources, and staffing to present these cutting-edge courses that will equip and challenge you in the area of Hazardous Materials response.

On Friday morning we offer more classes and opportunities for you to get in some great education and work with some great instructors before lunch.

I hope that while you are here you find this event beneficial to your organization and to you as a responder. In reality, I hope you had a great time and you go back to your organization with a fire in your belly to train others on what you learned this week. Make sure you plan early to return next year as the Symposium only gets better each year. Next year, plan to bring a friend!

Jonathan Lamm, Fire Chief, Cocoa, Florida President, Florida Hazardous Materials Symposium, Inc.
Welcome

We would like to WELCOME you to the
8th Annual Florida Hazardous Materials Symposium!

We hope that you enjoy your training experiences.
If you need help, please visit the registration booth and one of our staff
would be happy to assist you.
Thank you for your support.

Index

Tuesday Schedule (First Day) .......................................................................................... 5
2020 HazMat Team Competition .................................................................................... 7
Wednesday Schedule (Opening Ceremony) ................................................................... 8
Thursday Schedule (Hands-On) .................................................................................... 9
Friday Schedule (Classes) .............................................................................................. 10
Plaza Resort Conference Center Map ........................................................................... 11
2020 Course Training Descriptions ............................................................................... 14
Conference Instructors .................................................................................................. 39
2019 Thomas Yatabe Award Winners .......................................................................... 70
HazMat Competition Past Award Winners .................................................................... 70
2020 Sponsors .................................................................................................................. 71

Emergency Management Systems, Inc.
Contact: Richard Stilp, RN, MA, MEP
ff.medic@Hotmail.com 407 342-5306
Specializing in Medical and Command Based Hazardous Materials

HazMat Toxicology, Medic
Assessment, Diagnosis and Treatment
(24-hour course)

HazMat Medic/ToxMedic
(40-hour course)

Chemical/Drug (Opioid) Exposure
Train the Trainer Program
A Unified Response from Law Enforcement, Fire/EMS/HazMat, and
Hospital Emergency Staff
(8-hour course)

HazMat Street Command
(8-hour course)
Classes that are focused toward understanding the purpose and applying it!

RIDDLE ME THIS; HAZARD CHARACTERIZATION
This class is based upon repetitive activities and scenarios culminating towards a final scenario. Within a series of small activities we will reinforce information. Using a detection and identification matrix, heavy use of Basic Air monitoring, wet chemistry, and colorimetrics. 8hr Class

STREET CHEMISTRY; EVENT PREDICTION
The objective of this course work is to give the participant the ability to predict potential hazard outcomes based upon the chemical and physical characterization of the event using chemistry as the backbone for decision making. 40 hr Class

INFRA-RED SPECTROSCOPY; READING IR
This interactive, hands-on intensive workshop introduces the concepts of IR as students run actual samples. Simplified, practical information will help IR responders of all levels better incorporate these technologies into their operational protocols, by using a proprietary matrix 8hr Class

HAZMAT REFERENCING; LOOKING AT THE DETAILS
We will introduce a suite of informational means as a toolbox, to guide the instruction towards understanding air monitoring and detection within a real time environment. Through the use of simulated environments and real time detection simulation, we will review basic monitoring principles and referencing as they are applied to the event environment. 8hr Class

EXPLANATION OF HAZMAT SOP; DESCRIBING THE THERAPY
A course to provide the education and understanding that responders need to functionally use hazmat medical protocols. The content focus is on the medical response to hazardous materials incident regardless of the type of event. An explanation of the medical SOP’s 8hr Class

VISIT OUR PRESENTATION ON:
TACTICAL SKULL SESSIONS
OUR CLASSES EITHER ARE HANDS-ON, HAVE A GAMING COMPONENT OR GAME INTERACTIONS!!

All 8 hour classes must be ordered in multiples of 3. This is to satisfy a three platoon system.
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## Schedule-at-a-Glance

**Tuesday, January 21, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Vista Del Mar</th>
<th>Plaza Real A</th>
<th>Plaza Real B</th>
<th>Plaza Real C</th>
<th>Granada A</th>
<th>Granada B</th>
<th>Granada C</th>
<th>Granada G&amp;H</th>
<th>Granada I</th>
<th>Granada D and Outside</th>
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<tbody>
<tr>
<td>0800-1200</td>
<td>TTF Meeting</td>
<td>Propane IQ Advanced Smith; Naff</td>
<td>Development and Implementation of a HM Group Ops Plan Sacks; Bradley; Waterfield; Leonard; Dupont</td>
<td>Hazmat Safety Officer Wallace; King</td>
<td>There is Something About Mary Haberkorn; Brown</td>
<td>HM Wet Chemistry &amp; Field ID Ramos; Hansen; Zielonka</td>
<td>HazMat for the One in the Hot Seat Zamiska</td>
<td>Determined Accord; Pandemic Prep Workshop Lewis</td>
<td>Back Up Team Concepts and Best Practices Emery; Zientek; Wiseman; Hayes</td>
<td>Precon HM Tech Refresher (continuous throughout day) Seiferth; Loudermilk; Cahill</td>
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<td>1200-1300</td>
<td>Lunch Break (On your Own)</td>
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<tr>
<td>1300-1700</td>
<td>LEPC Chairs Meeting</td>
<td>Propane IQ Advanced (Cont'd) Smith; Naff</td>
<td>Development and Implementation of a HM Group Ops Plan (Cont'd) Socks; Bradley; Waterfield; Leonard; Dupont</td>
<td>Hazmat Safety Officer (Cont'd) Wallace; King</td>
<td>Same Circus, Different Clowns Haberkorn; Brown</td>
<td>HazMat Detective, Putting It All Together Ramos; Hansen; Zielonka</td>
<td>Intro to GC/MS Sampling Techniques Crume; Bevelacqua</td>
<td>Determined Accord; Pandemic Prep Workshop (Cont'd) Lewis</td>
<td>Left of BOOM! Emery; Zientek; Wiseman; Hayes</td>
<td>Precon HM Tech Refresher (continuous throughout day) Seiferth; Loudermilk; Cahill</td>
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<tr>
<td>0900-1600</td>
<td>HAZMAT TEAM COMPETITION AT VOLUSIA COUNTY FIRE RESCUE TRAINING FACILITY (live streamed all day)</td>
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**Tuesday programs are full day or half day classes that provide much greater depth into the subject matter being presented. These instructors represent the best of the best and have offered to come to our conference on the first day to present classes that are longer in duration but also very valuable to our attendees. The Symposium has traditionally provided these classes as preconference classes but we have found that most attendees arrive on Monday or Tuesday morning to take full advantage of these educational opportunities. Please enjoy and learn from these excellent first day classes.**

**Join us Tuesday evening from 5:30pm - 7:30 pm for a Vendor Showcase giving you an opportunity to visit each of our wonderful sponsors and vendors! Complimentary beer and a cash bar will be available.**
TRAINING & PROFESSIONAL DEVELOPMENT FOR HAZARDOUS MATERIAL RESPONSE

SPECIALIZING IN:
• HazMat Technician
• Chemistry & Toxicology
• Rapid Hazard Assessment
• Detection & Analysis
• Readiness & Capabilities Evaluations
• Team Management & Strategic Planning

RESPONSE Technologies Corporation
(941) 371-7849
www.responsetechnologies.com
The 2020 Florida Hazardous Materials Team Competition marks the 7th year of the event. Each year teams from around Florida and elsewhere sign up to compete in new challenges with up to 12 evaluation stations. These stations involve activities like product hazards analysis, leak control activities and other tactical operations.

**Competition Team Make-Up**
Competing teams are comprised of three technicians and one optional alternate*. In order to prepare, teams are provided with competition rules and an overview of each year’s stations approximately 60 days in advance.
On the morning of the competition the teams are sequestered in a staging area and are rotated into the evaluation tracks and stations. Grading is based upon rubrics developed and aligned with NFPA 472 training competencies and the current technician standard of care. The evaluators have extensive hazardous materials emergency response and instructional backgrounds and average in excess of 25 years real world experience.

*The alternate may only be used if one of the primary team members becomes physically incapable of continuing the competition. Otherwise, mid-competition substitution with the alternate will not be permitted.*

**This Year**
This year’s competition involves several new challenges and will be held Tuesday January 21st at the Volusia Fire Training Center at 3889 Tiger Bay Road, Daytona Beach. Spectators can observe the outside evolutions from designated areas and the competition will be live streamed publicly and to the main concourse at the Florida Hazardous Symposium at the Plaza Resort starting at 9:00 AM.

To view the complete competition rules, go to:

*Please note* There is no charge to register for the Team Competition. However, registering for the team competition does not gain you entry into the general conference. Each person who plans on attending the conference must also register separately. The cost for the conference is $195 per person.

**Sponsors:**
Kappler – Protective Garments  
Edwards & Cromwell Spill Control  
A-C-T Environmental and Infrastructure  
Safeware – Outfitting the Fearless Since 1979  
Anheuser- Bush  
EMC Instruments – Managing Static Hazards for Responders  
Industrial Scientific Corporation – Gas Detection Solutions
Complimentary breakfast buffet 7:00am – 8:30am in Plaza Real A.
Join us Wednesday evening at The Hard Rock Hotel beginning at 5:30pm for the
HazMat Team Competition Awards Ceremony at 7pm. Ticket required for entry.

Wednesday, January 22, 2020

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<td>0800-1000</td>
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<td>Opening Ceremony</td>
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<td>1030-1230</td>
<td>SERC Meeting</td>
<td>Leadership, Engagement and Making a Difference Noll</td>
<td>TRANSCAER Inside the Fenceline Chemical Facilities Silverman; Cullen</td>
<td>LNG Overview Socks; Bradley; Waterford</td>
<td>Mind OVR Matter: Virtual Reality Bonnell; Kapalo</td>
<td>Everything Carbon Monoxide Ramos; Hansen; Zielonka</td>
<td>Firefighter Detoxification, Dehydration, and Chemical Illness Stilp; Stark</td>
<td>Natural Disasters, Unnatural Hazards Lewis</td>
<td>Research Boot Camp Washington</td>
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Key Note Speaker
Armando “Toby” Bevelacqua

We all wait to be inspired!

This is bigger than a career, its bigger then showing up for work. It is an internal drive to teach the next generation. We all learned so much throughout our careers, why should the next generation of emergency responders wait for their own experiences. Let’s not allow the next generation to start over, but instead, build upon what we have learned. Let’s all pass on what we have learned, raise the bar, and not stand for the status quo. Let’s change the age-old thought of leadership and mentoring and start to inspire, encourage and teach.
On Thursday, January 24th, the coursework will focus on practical application and hands-on activities. Unlike in past years, we will be conducting these activities at the host hotel. Some activities will be on the patio.

### Thursday, January 23, 2020

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<td>The Bomb in Your Backyard Commercial CNG Vehicle Fires Gould</td>
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<td>The Voodoo of Natural Gas Incidents</td>
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<td>0800-1000</td>
<td><strong>Cryogenics: The Cold Hard Facts</strong> Zamiska; Vedder</td>
<td><strong>Tactical TIPS: Challenging the Decontamination Paradigm</strong> Baxter</td>
<td><strong>MC 331 Tank Truck Problems and Solutions</strong> Gore; Wright; Boyd</td>
<td><strong>Drones for Hazardous Materials Response and Detection</strong> Gould; Gatanis</td>
<td><strong>Push Ups, Sit Ups, and the Importance of Exercising Your Organizational Capabilities</strong> Donohue</td>
<td><strong>Its All About Interpretation</strong> Bradley; Valerioti</td>
<td><strong>Unstable Materials: Oxidizers, Monomers and Organic Peroxides</strong> Silverman; Cullen</td>
<td><strong>Game On! The Florida HazMat Team Competition Overview and Insights</strong> Wolfe; Doyle; Dorsey</td>
<td><strong>IC &amp; Emergency Response for Natural Gas Pipelines</strong> Laycock; Kerrigan; Villareal; Barrett</td>
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<tr>
<td>1015-1215</td>
<td><strong>Spill Response Strategies and Tactics</strong> Zamiska; Vedde</td>
<td><strong>Tactical TIPS: An Evidence-Based Approach to PPE Selection</strong> Baxter</td>
<td><strong>Flammable Liquids Tank Truck</strong> Gore; Wright; Boyd</td>
<td><strong>Loch Ness, Big Foot, and Dale’s Cone of Learning: Myths, Lies, and Legends of Training</strong> Donohue</td>
<td><strong>Recognizing and Responding to Commercial Explosives Incidents</strong> Valerioti; Bradley</td>
<td><strong>Mercaptan- The Smell of Danger</strong> Caballero-Ashmeade; Deegan</td>
<td><strong>HazMat Rapid Intervention Team</strong> Sicuso; Frost</td>
<td><strong>Responding to Natural Gas Emergencies</strong> Jambon; Barnard; Elliott</td>
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**1215** | **End of Conference** |

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**We’re proud to partner with first responders like you.**

Don’t miss our special training class **“Responding to Natural Gas Emergencies”** on Friday 10:30 a.m. - 12:00 p.m.

- Stop by the Peoples Gas booth for helpful materials and information about annual safety training.
- **FREE** online natural gas safety training at peoplesgas.com/safetytraining
- **Emergency Response Portal at response-planning.com/ERPP/TECO**

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**2020 Florida HM Symposium**  Page 10
**Lobby Level**

**PLAZA REAL Classrooms and opening ceremony.**
Breakfast on Wednesday will be served here.

Enter the Conference Center from the lobby

Grand Colonnade contains the vendor display area

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*Image of a floor plan showing the lobby level of the Plaza Resort and Spa Conference Center.*
Do you have the tools and training you need? Let us prepare you for your next propane incident.

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Our senior instructor has over 30 years experience instructing firefighters how to manage propane incidents plus 14 years working in the propane service industry.

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Small portable design makes it easy to be carried on a fire truck, squad, chief’s vehicle and the list goes on...

10 foot tall, 1 - inch flow capacity, 304 Stainless steel

Flare flow comparison: https://youtu.be/b8O5990xc8l

Water Injection

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Don't just dump it, Flare it

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Experienced with local and federal funding requirements. Sole source manufacturer and provider. Quotes for next year's grant cycle.

We also have multiple response kit options based on your departments needs.
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CHEMICAL WARFARE AGENTS, TOXIC INDUSTRIAL CHEMICALS, AND EMERGING PHARMACEUTICALS SUCH AS FENTANYL CAN CREATE A DANGEROUS SITUATION FOR FIRST RESPONDERS.

Our products provide exceptional protection without compromising your mobility or ability to get the job done.

- NFPA certified
- Lightweight yet extremely durable
- Enable enhanced functionality for mission effectiveness
- Easy to put on and take off—does not require chemical taping
- Effective heat stress management allows responder to remain on scene longer

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Anhydrous Ammonia Response – Applying Tactics to Scenarios
(1/22/2020 1:00 PM ET 5:00 PM ET Location: PLAZA REAL C)

Instructor: David Binder

This course will prepare students to handle anhydrous ammonia incidents effectively and efficiently. The session begins with a class review of a customized guide card, and live release footage of anhydrous ammonia. That will be followed by a sequence of a HazMat incident and will provide specific reminders and information for anhydrous ammonia responses. At the end of the course, the class will do various short tabletop scenarios with team play, providing some fun and entertainment, but more importantly allowing for some practical application in dealing with ammonia in real life incidents.

Course objectives:
- Obtain knowledge to make risk-based response decisions involving an ammonia leak or incident, based on ammonia’s characteristics and an assessment of the event.
- Understand the potential release phases that can be encountered when dealing with an anhydrous ammonia release.
- Understand real life cloud modeling and weather impacts on ammonia releases and release phases.
- Knowledge to implement basic control and containment options for anhydrous ammonia.

Back Up Team Concepts and Best Practices
(1/21/2020 8:00 AM 12:00 PM Location: GRANADA I)

Instructors: Rick Emery, Darrell Wiseman, Butch Hayes

A MAYDAY during a HazMat incident is a complex and dangerous problem. HAZWOPER and NFPA 472 require “backup teams,” but does not provide many details or even a definition. Many programs use a 2-member entry team and a 2-member backup team to meet this requirement, but there are many differing opinions on configuration, equipment and where to stage the backup team. In addition, there is more to consider for an effective and safe rescue. Is your backup team...
within eyesight of the entry team, in CPC and on air? Or is your backup team waiting outside the Hot Zone 50% dressed? What about EMS? Current research is developing best practices during a HazMat MAYDAY. Key hands-on evolutions will demonstrate safe and efficient operations to remove a downed HazMat team member. Instructors will provide a brief overview of the development of the current MAYDAY best practices, cover the unique considerations for HazMat emergencies and introduce the “Rescue Team” concept. Participants will use a flowchart identifying the roles and responsibilities of the backup team to select the correct option.

**Confined Space: HazMat or Technical Rescue?**
(1/23/2020 8:00 AM-10:00 AM Location: GRANADA G&H)

**Instructor: Monique Lewis**

Confined space rescue offers unique challenges to rescue units. This is because (too often) training and preparing for confined space rescue becomes just a process of "checking off" the regulatory boxes. Workers are trained in the basic rules they must follow, but rarely have an in-depth understanding of the true nature of the hazards they face. When working in a permit required confined space, OSHA allows a local fire department to be listed as the standby rescue. How many times do you think your department has been listed on an entry permit without you being notified? If your department is notified, is it the rescue squad, the HazMat team, or both that are put on standby? What information do you obtain from the entry supervisor? In case studies, where rescuers are injured during confined space rescues, almost without exception, the root cause is a lack of knowledge that a hazardous material is present or lack of understanding of the behavior of a hazardous material in that space. Certified Safety Professional (CSP) Monique Lewis will discuss some of these case studies and scenarios that she has encountered as a safety consultant in various industries. You’ll receive information beyond general confined space awareness with regard to common hazards and tactics for identifying when hazards exist or have the potential to exist. You’ll gain insight into the general level of knowledge and training received by the average worker, which will help you develop outreach strategies and operational policies and procedures geared toward safe and effective customer service for members of your community who work in and around confined spaces.

**Cryogenics, The Cold Hard Facts**
(1/24/2020 8:00 AM- 10:00 AM Location: VISTA DEL MAR)

**Instructors: Nick Zamiska, Mark Vedder**

As technicians, we all recognize cryogenics for its extreme cold hazards. In addition to the cold, high pressures, asphyxiation, fire and explosion hazards an emergency involving cryogenics can lead to a bad day. Even the slightest exposure to cryogenic liquids/gases can place first responders into an IDLH environment.

**Key Topics:**
- Analyzing the risk/benefit during an incident involving cryogenics.
- Review the chemical and physical properties associated with cryogenics.
- Identify the various containers cryogenics are stored and transported in.
- Selection of Personal Protective Equipment (PPE.)
- Cold Burn Treatment.
- Review of case studies involving cryogenic emergencies.
Dealing with CNG and LNG Transport Trailers Emergencies  
(1/22/2020 1:00 PM- 3:00 PM Location: GRANADA A)  
**Instructor: Keith Pomeroy**  
This presentation will review and bring new information for both Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG) in a transport trailer.  
Topics include:  
- Characteristics and behavior of both CNG and LNG.  
- Transport components and systems on a CNG and LNG trailers.  
- Hazard and precautions of a loading and unloading areas.  
- Behavior of confined and unconfined CNG and LNG spills.  
- LNG vapor cloud behavior and control techniques.  
- Use of high expansion foam for LNG vapor and fire control.  
- Use of dry chemical agents for suppression of LNG pool fires.  

Developing and Implementing the Hazardous Material Group Operational Plan  
(1/21/2020 8:00- 5:00 PM Location: PLAZA REAL B)  
**Instructors: Greg Socks, Joe Leonard, Bob Bradley, Jason Waterford, Hank DuPont**  
Developing and Implementing the Hazardous Material Group Operational Plan shall give participants a challenging opportunity to manage realistic scenarios presented using state-of-the-art simulation software and real-time atmospheric readings via wireless monitors. Using a team building concept, participants shall be responsible for the development and Implementation of a HazMat group operational plan to work through each scenario following the NFPA 472 competencies and NIMS ICS forms. ICS, hazard/risk analysis, information resources, including modeling (if applicable) shall be presented as primary disciplines for developing and implementing the plan. Command, General Staff, and HazMat Branch/Group operates in one room while "Hot Zone" operations are made in a connecting room. Hot Zone operations will see different views. Atmospheric readings are sent to the Hot Zone entry team using wireless monitors that correspond to their movements. Communications by the Hot Zone entry team to the IC/HazMat Branch/Group Supervisor drives the decision process.  

Determined Accord Pandemic Preparedness Workshop  
(1/21/2020 8:00-5:00 PM Location: GRANADA G&H)  
**Instructor: Monique Lewis**  
The National Pandemic Influenza Plan states that “the center of gravity of the pandemic response...will be in communities. The distributed nature of a pandemic, as well as the sheer burden of disease across the Nation over a period of months or longer, means that the Federal Government’s support to any particular State, Tribal Nation, or community will be limited in comparison to the aid it mobilizes for disasters such as earthquakes or hurricanes, which strike a more confined geographic area over a shorter period of time. Local communities will have to address the medical and non-medical effects of the pandemic with available resources. This means that it is essential for communities, tribes, States, and regions to have plans in place to support the full spectrum of their needs over the course of weeks or months, and for the Federal
Government to provide clear guidance on the manner in which these needs can be met.” This class will give participants the tools they need to effectively start the discussion about pandemic planning in their communities and workplaces if those discussions have not yet started and to improve upon existing planning efforts that are already underway.

**Drones for Hazardous Materials Response and Detection: Don't Let Your Drone be a Passive Observer**

(1/24/2020 8:00 AM -12:00 PM Location: PLAZA REAL C)

**Instructors: Christopher Gould, Rich Gatanis**

Don't let your drone be a passive observer. Make it an active participant in the mitigation of your hazardous materials incident. Often, the initial information provided to responders (by bystanders and 911 callers) is erroneous. This class will teach the student techniques and procedures to safely use a drone in an Immediately Dangerous to Life or Health (IDLH) environment, how to rapidly assess the extent of the HazMat scene, and give the incident commander good quality actionable intel. Presenters will pass along the knowledge they have acquired from their real-world use of drones on actual hazardous materials incidents. The presenters will share their findings from their testing of drones in flammable atmospheres and use in IDLH environments and describe how they use drones to rapidly access the hot zone, assess chemical threats and limit responder exposure. Students will be shown how to use drones for plume tracking, hazard identification, air sampling, triage, radiation detection, victim rescue and ways to accomplish other tactical objectives. The lessons learned are especially applicable to transportation incidents involving hazardous materials which can happen anywhere and often occur in locations that have limited access (yet still threaten local populations and the environment). This can also happen in densely populated areas where getting a complete overview of the magnitude of the event is almost impossible for the incident commander. HazMat responders do not have the luxury of having a pre-plan for their transportation incident. Drones help the HazMat responders overcome these unique challenges that transportation emergencies present by demonstrating how drones can provide decision makers with more accurate and actionable information in 15 minutes as compared to a human (in Chemical PPE on foot) can provide in 2 hours. This class is all classroom using a power point presentation augmented with videos of real-world drone response to HazMat incidents and drone testing. It is intended to show the students how to use their drones for hazardous materials incidents and will touch on but not focus on the various regulations that apply to drone programs. The presenters will also share their experiences with managing and justifying the existence of a drone program along with the equipment requirements needed for real world incidents.

**Effectively Leading and Managing HazMat Teams in Today's Complex Emergency Service Environments**

(1/23/2020 8:00 AM-5:00 PM Location: PLAZA REAL A)

**Instructors: Mike Wallace, Bob King**

This interactive training presentation is designed to guide students in obtaining the specific knowledge, skills, and abilities to effectively develop, lead, manage, sustain, and efficiently market a hazardous materials response team. This presentation will also allow the students to identify a need to develop, implement, and sustain a hazardous materials response team. This specific
program is designed for personnel whom are responsible for leading and managing HazMat response teams. Topics include:

- Leadership and management techniques needed to effectively lead and manage a HazMat response team
- Laws, regulations and requirements related to effective team management
- Risk assessment to ensure the HazMat team is meeting the appropriate response needs of the community.
- Budgeting and finance development and management
- Appropriate deployment models and response team capabilities
- Appropriate staffing and resource requirements and capabilities
- Appropriate training requirements
- Properly equipping a team
- Appropriate marketing the team and creating community and organizational value.
- Team branding, what is it?

**Everything Carbon Monoxide: From EMS to Fire to HazMat**
(1/22/2020 10:00-12:00 PM Location: GRANADA B)

**Instructors: Julio Leonidas Ramos, Jeff Hansen, William Zielonka**

Carbon Monoxide is a subject that is talked about in the fire service since recruit school. Yet, it is still a subject that many of the first responders have a hard time understanding. Is CO flammable? How do we know someone has CO poisoning? How do we treat them? Is there a logical way of handling CO alarm activations? This class will talk about the physical and chemical properties of Carbon Monoxide, how we can monitor for it, how can we treat for CO poisoning, and when to realize that sometimes a CO Alarm is due to a cross sensitivity. This is for firefighters and emergency response personnel at all levels of training.

**Foam Application for Transportation Emergencies Involving Petroleum and Polar Solvents Like Ethanol**
(1/23/2020 1:00- 5:00 PM Location: GRANADA A)

**Instructors: Frank DeFrancesco, Steven McCarthy**

This foam presentation is designed to give the technician information about the characteristics between petroleum products and polar solvents as it relates to extinguishing fires with the use of foam. The students will be able to learn about the foam products available, how to calculate the use of the foam, and ways to apply the foam.

**Firefighter Detoxification, Dehydration, and Chemical Illness**
(1/22/2020 10:00-12:00 Location: GRANADA C)

**Instructors: Richard Stilp, Billy Stark**

It is not widely understood by firefighters that detoxification, hydration, and basic prevention can reduce the occurrence of cancer, heart attacks, and other firefighting related illnesses. This program will review how the body naturally detoxifies itself from chemical exposure and how a more aggressive hydration effort assists that process, allows for better blood flow and reduces viscosity, and keeps the body core temperature under control. In addition, basic prevention efforts will be reviewed to prevent exposure and long-term effects from chemicals common on the job.
Flammable Liquid Tank Truck Fire Attack
(1/24/2020 10:00-12:00 Location: PLAZA REAL B)
Instructors: Ronald G. Gore, John James Wright III, Billy I. Boyd
Areas of Instruction include:
- Understanding tank truck structural components/design: typical products transported and their relative burn characteristics.
- Timely and effective quick knock down fire attack strategies and tactics.
- Solving complicated fire issues.
- Utilizing a simple fire extinguishing formula (water, dry chemical, foam application rates and techniques).
- Selection and use of standard and innovative/unconventional equipment.
- Fire attack leadership necessities.

Game On! The Florida HazMat Team Competition Overview and Insights
(1/24/2020 8:00-10:00 Location: GRANADA G&H)
Instructors: Douglas Wolfe, Steve Doyle, Tim Dorsey
Presented by the Response Technologies Competition Management Team, this presentation is intended for any team that competed or is thinking about competing. This session identifies how the competition grading system is developed, what the evaluators are looking for, and where teams should focus their efforts. Those teams that competed will be able to use the information provided here to understand their assessment summaries after the awards ceremony. Teams that are thinking about competing will gather valuable information about getting involved and how to prepare themselves in order to make a great showing.

Hazard Assessment for Multi Hazard Scenarios
(1/23/2020 1:00-3:00 PM ET Location: PLAZA REAL B)
Instructors: Philip Mann, Miller B. Opolka
Using four real world scenarios, this presentation will review the various factors that need to be considered in responses related to the multi-hazards faced by all emergency response personnel. This class will also address the issues of interoperability and consistency of protection between agencies. This will review testing and certifications that relate to multi-hazard scenarios, as well as discuss decisions made based on the hazards present.

Hazardous Materials; Managing the Incident
(1/22/2020 1:00-5:00 Location: VISTA DEL MAR)
Instructors: Gregory Noll, Michael Hildebrand
Given the risks of HM emergency response operations, the overwhelming majority of responder injuries and deaths at HM incidents occur prior to the arrival of HM Response Teams. The ability of the Incident Commander and HazMat Group Supervisor to critically and effectively apply a risk-based response methodology provides the foundation for a safe response. Using the Eight Step Process as the framework, this workshop will focus on the tactical management of hazardous materials and special operations incidents.
**HazMat Breakout**  
(1/23/2020 8:00-5:00 Location: GRANADA C)  
**Instructors: Jesse Crews, Roger Windham, Robert Cruthis**  
During this session, attendees will participate in a fun and interpretive hands-on skills challenge. Participants will be divided into small groups and will race the clock to “escape” or “breakout” from various unknown hazards using research and problem-solving skills. The teams will have to use the unknown HazMat algorithm, multiple detection technologies, and their knowledge of real-world HazMat incidents to achieve their final goal.

**HazMat/CBRN Performance Standards & Next Generation PPE**  
(1/23/2020 0800-10:00 and 10:00-12:00 Location: GRANADA A)  
**Instructors: Jason Horowitz, Robert Eckroade, Ronny Hutchison**  
Hazardous materials emergencies can occur anywhere, involve any number of substances, and result in a diverse set of challenging environmental and operational response conditions (e.g. train derailments, chemical spills from tanker trucks, CBRN terrorism incidents, etc.).

First Responders and Hazardous Materials technicians must be adequately and properly protected to respond to these incidents, whether performing life safety or emergency mitigation missions.

The National Fire Protection Association (NFPA) has developed Personal Protective Clothing & Equipment standards in direct response to the above scenarios. Specifically, those Standards are:


This educational session will:

1. Review the application of these clothing & equipment standards to hazardous materials emergency response, including material and ensemble test methods,
2. Review next generation of certified protective ensembles that provide enhanced protection and mission performance, along with increased responder safety via heat stress reduction,
3. Provide an opportunity for participants to wear and utilize protective ensembles in a practical exercise, and

**HazMat Detective, Putting It All Together: Research, Chemistry, and Monitoring**  
(1/21/2020 1:00-5:00 Location: GRANADA B)  
**Instructors: Julio Leonidas Ramos, Jeff Hansen, William Zielonka**  
A forklift operator has dropped two 55-gallon drums containing two different chemicals in a warehouse. It is 98 degrees Fahrenheit with 50% humidity. The forklift Operator is unconscious,
barely breathing, and is exposed to the substance. You have been assigned as the research officer. The chemicals in question are: Vinyl Cyanide and Carbolic Acid. Which chemical is worse? What meters and PPE are the downrange team using? Is this a rescue or recovery mission? How do we mitigate this situation? What is the decontamination set up? This class is meant to bring critical thinking in time crunched scenarios to bring incidents under control in a thorough and efficient manner. This class will help those assigned to research, decipher, and disseminate information and help the HazMat Group and Incident Command develop a site safety plan.

HazMat for the One in the Hot Seat
(1/21/2020 8:00-12:00 Location: GRANADA C)
Instructor: Nick Zamiska
This class provides the opportunity to ascertain information to make sure a firefighting company is properly prepared and outfitted to handle a hazardous materials response in structural firefighting gear and SCBA. Special emphasis is placed on hazardous materials incidents where there is a report of a viable victim in the hazardous atmosphere. Emergency decontamination measures will be discussed with special consideration of a situation where you only have your initial fire apparatus on the scene without a dedicated HazMat team. This will not only include patient decontamination, but also firefighter decontamination. This course will focus on firefighter safety during the initial moments of a hazardous materials incident.

Key Topics:
- Ability to perform a risk assessment for a hazardous materials response as the initial arriving fire company.
- Ascertain necessary hazard information about a HazMat product utilizing the latest research methods that are user-friendly to firefighters.
- Determine if structural firefighting turnout gear and SCBA is the appropriate PPE to keep you safe based on your research.
- Make a safe, risk-based decision on viable victim rescue in a hazardous materials atmosphere.
- Utilize common metering equipment found on most engine and truck companies to determine if your PPE is safe to make entry.
- Firefighter and victim decontamination considerations.

HazMatIQ Above the Line/Below the Line
(1/22/2020 1:00-5:00 Location: PLAZA REAL B)
Instructor: Todd Smith
The HazMatIQ Above the Line / Below the Line system is a patented program developed by experienced hazardous materials responders, taught in a straightforward, easy to understand methodology. This cornerstone course, lays the foundation for all HazMat IQ courses. Through the use of simplified flow charts, personnel are able to safely and efficiently respond to any known or unknown chemical or mixture. Students will be trained to size-up (physical state, hazards, initial hot zone, correct meters and PPE) of any chemical in seconds. The system uses a streamlined methodology to build upon the initial size-up, preparing them to immediately go to work when they arrive on a hazardous materials/WMD event.
HazMat Rapid Intervention Teams
(1/24/2020 10:00-12:00 Location: GRANADA G&H)

Instructors: Mark Sicuso, Tobias Frost

Fire departments nationwide have established Rapid Intervention Team (RIT) procedures for fire ground safety since the inception of NFPA Standard 1407. The dangers to hazardous materials responders, working in chemical protective clothing, are equally as present at a HazMat incident as they are on a fire ground. This course establishes best practices for establishing a RIT as part of the overall site safety and management of a hazardous materials incident. When an emergency happens to a HazMat team member operating in the hot zone, will your team be ready? Join us for a combination of lively discussion and hands-on training using the tools, equipment and the mindset required to be ready to play a crucial role at a hazardous materials incident. Learn SOGs, SOPs, techniques and tricks of the trade to take back to your teams to make your HazMat rapid intervention personnel successful.

HazMat Roundtable; There is More Than One Way
(1/22/2020 1:00-3:00 Location: GRA NADA B)

Instructors: Robert Coschigano, Derek Schaumann

The HazMat Roundtable offers a unique setting for students to discuss real HazMat responses from transportation to fixed facilities and also exchange different ideologies to those responses. During this session, the students will have a chance to role play and learn that there may be more than one way to mitigate a hazard. The student will also learn how to reach out for suggestive solutions to real world incidents.

HazMat Safety Officer
(1/21/2020 8:00-5:00 Location: PLAZA REAL C)

Instructors: Michael Wallace, Bob King

The goal of this 8-hour activity driven presentation is to bring personnel to a general understanding of the recognized United States Occupational Safety and Health Administration’s Hazardous Materials Site Safety Officer, 29 CFR 1910.120(q). Per this legislation by definition, the site safety officer is the individual located at a hazardous materials incident who is knowledgeable in the operations being implemented at the emergency response site, with specific responsibility to identify and evaluate hazards and to provide direction with respect to the safety of operations for the emergency at hand.

The presentation will also address NFPA 472 Competencies for Hazardous Materials Site Safety Officers. The presentation will address the following topics:

- Analyzing the hazardous materials incident to determine the magnitude of the problem in terms of safety.
- Planning a safe response within the capabilities of available response personnel, personal protective equipment, and control.
- Assure a safe planned response consistent with the local emergency response plan, the organization’s standard operating procedures, and safety considerations.
- Identify safety considerations for personnel performing the control functions identified in the plan of action.
- Develop safety briefings for personnel performing the control functions identified in the plan of action.
HazMat Sandtraps
(1/23/2020 1:00-3:00 Location: GRANADA G&H)
Instructor: William Hellard
During this course there will be a discussion on common issues that response teams and departments face throughout the country. These issues involve the mindset toward hazardous materials response, training for response, and how to perform during the response. These issues will be discussed, and specific training methods will be offered to deal with each of these problems.

HazMat Technician Refresher
(1/21/2020 8:00-5:00 Location: GRANADA D & OUTSIDE)
Instructors: Paul Seiferth, Butch Loudermilk, Chris Cahill
This full day class will include a review of many technician skills. The class will be broken down into hands-on stations. Which will include the following:
- A and B kit review.
- Bonding and Grounding with flammable liquid transfer.
- Level A in suit emergency.
- The leak monster with patching and plugging.
- Gas line emergency review with down and dirty meter review.
Students will make two to three Level A entries.

HazMat Wet Chemistry: Field Identification of the Unknown
(1/21/2020 8:00-12:00 Location: GRANADA B)
Instructors: Julio Leonidas Ramos, Jeff Hansen, William Zielonka
In today’s society, in the hazardous materials response realm, we are inundated with the upcoming technological advances in field chemical identification and classification. As technicians, we must not forget our roots of using wet chemistry to classify and potentially identify substances while waiting for technology to come to the scene or to augment the different technologies.

Incident Command & Emergency Response for Natural Gas Transmission Pipelines
(1/24/2020 8:00-10:00 Location: GRANADA I)
Instructors: Michael Laycock, Peter Kerrigan, James Villarreal, Rick Barrett
There are numerous types of pipelines in Florida and three (3) of them are major natural gas high-pressure transmission pipeline companies. They are Sabal Trail Transmission, Gulfstream Natural Gas System, and Florida Gas Transmission (FGT). The facilities these companies operate in Florida are considered “high-priority subsurface installations” per Florida Statute 556. There are unique challenges for emergency responders that are associated with this designation for high-pressure gas transmission pipelines. The main focus of this presentation is Incident Command for an incident involving a high-pressure gas pipeline and a discussion of some of the possible scenarios that could be encountered and the expected emergency responses. A brief overview of their facilities in Florida and information valuable for responding to emergencies associated with their facilities and equipment will also be discussed. This is an excellent
opportunity for emergency responders to learn more about high-pressure natural gas transmission pipelines and ask questions pertaining to emergency response.

**Introduction to Proper GC/MS Sampling Techniques**
(1/21/2020 1:00-5:00 Location: GRANADA C)

**Instructors: Craig Crume, Armando Bevelacqua**

Confirmatory analysis by Gas Chromatography/Mass Spectrometry (GC/MS) during on-scene response has become the most powerful tool for the responder to make a better-informed decision. To get actionable results, in the shortest time possible, it is critical to choose the best approach for collecting and introducing the sample into the instrument. In this course, we will review scenarios for how to collect and introduce the right sample to the instrument to identify hazardous substances faster and more efficiently during a response. This course will help the responder avoid the “garbage in garbage out” potential for sample collection during a response, as well as how to handle a vapor, liquid or solid phases of a material.

**It's All About Interpretation...**
(1/24/2020 8:00-10:00 Location: GRANADA B)

**Instructors: Robert Bradley, Albert Valerioti**

Evaluating case studies of chlorine tank car releases, under certain atmospheric conditions, the actual hazard area does not match the hazard prediction area. The Jack Rabbit Trials were conducted to identify why the actual product behavior and downwind impact areas did not match the predictions from the ERG and other dispersion models. This will be an overview of the Jack Rabbit Trials, what was determined and a demonstration and discussion of the new RAILCAR source model in the latest release of ALOHA.

**Leadership, Engagement, and Making a Difference**
(1/22/2020 10:00-12:00 Location: PLAZA REAL A)

**Instructor: Greg Noll**

If your life was a movie, what would the end of the movie look like? When your family, friends and peers sit around the kitchen table and talk about you, what will they say and how will they remember you? Did you leave things better than you found them? In simple terms, did you make a difference? This session will focus on those “buckets” that directly influence your leadership and ability to engage your peers, including character, leadership, priorities and their balance, mentorship and collaboration.

**Left of BOOM!**
(1/21/2020 1:00-5:00 Location: GRANADA I)

**Instructor: Rick Emery**

The United States Marine Corps “Combat Hunter” program trains Marines to observe early warning clues of an attack so they can stay “left of bang”. On a timeline, “bang” is the attack, everything left of “bang” is pre-attack and right of bang is post-attack. The Combat Hunter program saves Marines and this same concept can save HazMat team members. In HazMat response, an emergency during an entry is BOOM, everything after the emergency is right of BOOM and everything before the emergency is left of BOOM. This program trains responders to stay left of BOOM to avoid an emergency. The 10-line pre-entry safety briefing is a checklist that helps the
HazMat team safety officer keep everyone left of BOOM. Combining training, skills and experience with the 10-line safety briefing will provide a student with the skills to keep team members safe while efficiently mitigating an incident. The HazMat Safety Officer (HMSO) is a very important position and is involved in every aspect of an incident including decontamination, PPE, monitoring, setting control zones, communications, tactical decisions and developing the Incident Action Plan (IAP). The HMSO works in conjunction with the Incident Safety Officer and needs to know all the competencies of a technician, plus all the mission specific and HazMat Officer competencies. The HMSO evaluates an incident safety using risk-based response to identify safety concerns. The HMSO develops a site-safety plan based on an IAP, conducts safety briefings, enforces the safety plan, monitors actions in controlled zones and identifies high-risk conditions. The HMSO communicates potential safety concerns to the Incident Commander. Workshop participants will use exercises to self-evaluate their HazMat team Safety Officer skills. The instructors will walk through the first exercise hitting all the points that a Safety Officer needs to cover, including the pre-entry safety briefing. Additional exercises will allow the class to discuss all the possibilities and defend the answers. The new “10 Line” pre-entry safety briefing concept will provide participants with a model pre-entry briefing plan to take back home.

**LNG Overview for The First Responder**  
(1/22/2020 10:00-12:00 Location: PLAZA REAL C)  
**Instructors: Gregory Socks, Jason Waterford, Robert Bradley**  
This workshop addresses the current and future challenges that first responders may encounter when dealing with a Liquefied Natural Gas (LNG) emergency. A complete overview of the LNG process, storage, modeling and movement will be addressed. Tactical recommendations for handling releases will also be addressed in the presentation. The Savannah, GA, Elba Island facility will be highlighted in the presentation along with a discussion of several case studies which resulted in the release of LNG.

**Loch Ness, Big Foot, and Dale’s Cone of Learning. Myths, Lies, and Legends of Training**  
(1/24/2020 10:00-12:00 Location: GRANADA A)  
**Instructor: Dave Donohue**  
This program reviews many of the legends of training that have been incorporated into emergency services training and compares them to research finding in cognitive learning, exposing those legends that are not supported by science and highlighting those that work. In addition, this program will review current research on learning and identify techniques that have been demonstrated to improve learning, knowledge and skill retention, long term recall and application of learning.

(1/23/2020 1:00-5:00 Location: GRANADA B)  
**Instructors: Dave Wolfe, Mike Moore**  
If you are looking for good street-smart advice to apply to your next cargo tank incident, this class was made for you! Come along with us as we discuss the MC-307 & DOT-407 cargo tanks, their construction features, emergency devices and considerations that must be considered in the event of a roll-over, liquid / vapor leaks, polymerization and other emergency involving this vessel.
By utilizing the MC-307 & DOT-407 cargo tanks as an example many lessons can be learned that are applicable to this specification cargo tanks incidents & accidents. This course was designed to give you everything from a good starting point for most cargo tank incidents to practical information about the construction features, strengths and weakness that will allow you to make better decisions at your next cargo tank emergency. If you have ever enjoyed an episode of “How It’s Made”, you are going to love this class. Join the pros at Safe Transportation Training Specialists for an enlightening presentation that will include the use of cargo tank models and hands on demonstrations designed to educate and entertain.

**MC-306 & DOT-406 Gasoline Cargo Tank Emergency Response**

(1/23/2020 8:00-12:00 Location: GRANADA B)

**Instructors:** Dave Wolfe, Mike Moore

If you are looking for good street-smart advice to apply to your next gasoline cargo tank incident, this class was made for you! Come along with us as we discuss the MC-306 & DOT-406 gasoline cargo tanks, their construction features, emergency devices and considerations that must be considered in the event of a roll-over, fire or other emergency involving this vessel. If you have ever enjoyed an episode of “How It’s Made”, you are going to love this class. Join the pros at Safe Transportation Training Specialists for an enlightening demonstration that includes the use of unique cargo tank models, simulators and flame impingement demonstrations that are designed to educate and entertain. This multimedia presentation will begin by focusing on unique features of gasoline cargo tanks and the application of this knowledge to incidents and accidents. The instructor will take the class on a journey of a gasoline cargo tank accident/fire that was caught on film to give the student a sense of what can happen at an actual event. This program will then progress to cover everything from construction features of the vessel to emergency devices and the application of this information to better decision-making roll-overs, fires and other incidents. The presentation will then conclude with a hands-on review of unique gasoline cargo tank models, a dome leak simulation and flame impingement demonstration that will permit the responder to gain a visual association with the equipment and techniques discussed throughout the course.

**MC 331 Tank Truck Problems and Solutions**

(1/24/2020 8:00-10:00 Location: PLAZA REAL B)

**Instructors:** Ronald G. Gore, John James Wright III, Billy I. Boyd

MC 331 tank truck structural components/design; leak control and containment, water injection, solving relief valve issues, emergency product transfer, auto-refrigeration, flaring and venting and vapor cloud control. Case studies will be shown to mitigate timely and effective urban and rural team responses. Case histories and re-enactments will be presented.

**Mercaptan-The Smell of Danger**

(1/24/2020 10:00-12:00 Location: GRANADA C)

**Instructors:** Jessica Caballero-Ashmeade, Mike Deegan

This course will allow the participants to acquire an in depth understanding as to the history behind the use of odorant, federal regulations and the “life safety” awareness mechanism of the chemical components of mercaptan.

Topics Covered:

- New London, Texas disaster March 18, 1937.
• Disaster sparked Federal laws requiring adding a warning odor to natural gas, saving millions of lives in the U.S. and all over the world.
• Pipeline and Hazardous Materials Safety Administration (PHMSA) regulations CFR Part 192.625 requires a gas distribution operator to maintain a readily detectable odorant in the gas stream.
• Methods used to add odorant to pipelines and how this is measured/monitored.
• Chemical components of mercaptan.
• The negative effects of olfactory and odor fade.

**Mind OVR Matter: Virtual Reality (VR) for HAZMAT Training and Decision-Making**  
(1/22/2020 10:00-12:00 Location: GRANADA A)  
**Instructors: Joseph A. Bonnell, PhD, Katelynn A. Kapalo, MS**
This workshop will present a fast-paced look at newly emerging technologies such as Augmented and Virtual Reality (AR/VR) and simulation for training emergency response to HazMat incidents. We will evaluate the role of technology in decision-making and provide an overview of new training and simulation technologies directly of interest to the HazMat community. Historical background and future research will be discussed, along with a brief primer to the theories that underpin current research in “smart firefighting.”

The second portion of the course will focus on a real case study from a HazMat incident, involving a scenario derived from a National Transportation Safety Board (NTSB) Hazardous Materials Action Brief. Participants will have an opportunity to engage in an interactive session where their situational awareness will be degraded. This exercise will demonstrate how easily misinformation and technology can distract from the unfolding scene. Participants will be broken into groups and will role play. A debriefing discussion will follow in which participants will connect and apply a decision-making theory to their own decisions throughout the case study. Following the case study, participants will discuss lessons learned, along with best practices. The goal of this workshop will be to demonstrate how technology can positively or negatively influence situational awareness and subsequently, the effectiveness of incident response.

Attendees will also have the opportunity to see a live demo and interact with VR/AR technology using an HTC VIVE Virtual Reality Head Worn Display (HWD) or Microsoft Hololens.

**Natural Disasters, Unnatural Hazards**  
(1/22/2020 10:00-12:00 Location: GRANADA G&H)  
**Instructor: Monique Lewis, CSP**
In the aftermath of a natural disaster, whether it be a hurricane, tornado, earthquake, or tsunami, the hazards responders face can be particularly challenging. When the environment is full of unknowns and is generally unstable, the playbook of Standard Operating Procedures (SOP) ends up being woefully inadequate. Even in areas where certain types of disasters are almost common place, the scenario is different every time. Professional Continuity Planner and Associate Safety Professional, Monique Lewis, former team lead for a national HazMat response team whose primary mission was to respond to the aftermath of natural disasters will explore the challenges associated with these environments, share some practical solutions to interesting situations her
team faced, and host an interactive discussion where participants will have the opportunity to come up with out of the box solutions to real world problems that have or are likely to arise.

**Physical & Chemical Properties for Risk Based Response**  
(1/23/2020 8:00-12:00 and 1:00-5:00 Location: VISTA DEL MAR)  
**Instructor: Brian Ramsey**  
Participants will witness the dynamic tendencies of hazardous materials brought to life through physical and chemical properties demonstrations. During this lecture, the flash point, flammable range, boiling point, vapor pressure, auto ignition temperature, molecular weight, vapor density, and solubility will be demonstrated. This lecture will also demonstrate the properties of liquefied compressed gases as well as cryogenics. 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!

**Propane Emergency Response**  
(1/22/2020 1:00-5:00 Location: GRANADA G&H)  
**Instructor: Carl Weeks**  
The course taught is based on the National Propane Gas Associations “Propane Emergency” program, and includes several films, PowerPoint, and information from various agencies relative to propane, including characteristics, the handling and transportation of propane (NFPA 58), the Florida Consumer Services Rules and Regulations and the Chemical Safety Board. A wide assortment of propane props (inside) are also demonstrated for hands-on training and handling throughout the four-hour course. This course is registered with the Florida State Fire College (Course ID# RN9376). To date, this program has been presented to over 10,000 Florida first responders, HazMat teams, fire marshal’s, propane industry personnel, law enforcement and anyone interested in propane and propane safety. The FSFC has an updated (2018) full course synopsis and outline (which is available for review upon request). Propane is a widely consumed hazardous material product, and this course discusses all the various applications, i.e. residential, industrial, commercial, agricultural, motor fuel, and recreational. All related tanks and cylinders are detailed.

**PropaneIQ – Advanced**  
(1/21/2020 8:00-5:00 Location: PLAZA REAL A)  
**Instructors: Todd Smith, Chris Naff**  
This course provides a thorough refresher on propane properties and review the concepts of understanding the behavior of propane, terminology and application of valves and adaptors found in the Propane Emergency Response Kits A/B. This class also includes hands-on leak control counter measures using custom props designed to simulate real leaks on Bobtails, Transports, Railcars and Bulk Storage tanks that are not practiced in PropaneIQ. In this course, the focus is on reviewing the safe use and procedures based on the following topics:
- Advanced Propane Behaviors
- Hydrometer Demonstration
- Bobtail features and valving
- Transport features and valving
• Bulk Storage features and valving
• Bobtail Walkthrough (If available)
• Tank Fill procedure
• Liquid withdraw/Sherwood
• Railcar Features and valving
• BLEVE
• and Hands-On practical scenarios

**Push Ups, Sit Ups, and the Importance of Exercising Your Organizational Capabilities**
(1/24/2020 8:00-10:00 Location: GRANADA A)
**Instructor: Dave Donohue**
This program will review the types and purpose of exercises and the importance of developing an exercise program to assess your abilities, validate your policies and procedures, and prioritize and focus funding and expenditures. Exercise programs, when done correctly, provide validation for your organization, data to support your efforts, and a means of justifying organizational support from community decision-makers. This program will provide participants with an understanding of exercises, their use and function, and how to leverage exercises to gain support.

**Rail Car ID and Leak Control**
(1/23/2020 8:00-12:00 Location: GRANADA I)
**Instructor: David Bullard**
Using HEPACO’s Rail Dome Trailer, students will review the valves for general service, pressure, and chlorine cars. Following this, the attendees will have an opportunity to apply a B kit, midland kit, and other leak stopping techniques on simulated rail cars (while in PPE).

Topics include:
- Rail Car Dome Trailer Railcar and valve ID
- Midland and B Kit practice
- Product and pressurized leak ID and control while in full PPE

**Recognizing and Responding to Commercial Explosives Incidents (It Doesn’t Have to Go “Boom”)**
(1/24/2020 10:00-12:00 Location: GRANADA B)
**Instructors: Albert Valeriotti, Robert Bradley**
Commercial explosives have changed the face of the world and helped make tremendous progress, but for many responders, they still remain a source of confusion and misinformation. The ERG says to work “UNDER SUPERVISION OF A SPECIALIST.”

Who is that? In this session, participants will learn how to recognize commercial explosives. They will also learn commonsense actions to make a scene safer or know when it’s truly time to “get out of Dodge.” A discussion on their properties, uses and past incidents is also included.
Research Boot Camp
(1/22/2020 10:00-12:00 Location: GRANADA I)
Instructor: Emanuel Washington Jr.
The purpose of this class is to refresh current Hazardous Material technicians on how to do research for a hazardous materials emergency.

Topics include:
- Interpret the research material’s characteristics into identification/recognition
- Basic Plume Plotting
- Conversion Calculations
- Decide Level of Protection
- Decontamination Procedures /Solutions Medical Considerations Neutralization/Extinguishment (Calculations)

Responding to Ammonia Incidents. A Company Officer’s Guide
(1/23/2020 3:00-5:00 Location: GRANADA G&H)
Instructor: William Hellard
Ammonia is one of the most commonly used chemicals in the world and can be found in most communities. Ammonia is commonly used in agriculture settings and as an industrial refrigerant. When it is released unexpectedly, we must be ready to respond with proven strategies and tactics. There are many "myths" that have been taught for years that may hinder our response and potentially make the situation worse. We will discuss using the properties of ammonia to form a well-planned response. The basics of ammonia refrigeration systems will be covered in order to aid in responses to fixed facilities. Several tactical options for rescue and response will also be discussed.

Responding to Emergencies in the Laboratory
(1/22/2020 3:00-5:00 Location: GRANADA A)
Instructors: Keith Silverman, PhD, MPH, William Cullen
Emergency responses to incidents in the laboratory can be extremely challenging. The thought of wild-haired scientists, in white lab coats, holding colorful bubbling beakers of chemicals only adds to the mystery and creates responder anxiety. Hazardous chemicals, biologicals, radioactive materials, specialty gases, and complicated laboratory apparatus and instrumentation all pose special challenges. Additionally, the physical layout of laboratory facilities further complicates the response. This workshop helps take the mystery out of laboratory emergency response by enhancing situational assessment, risk-based decision-making, and responder safety.

Responding to Natural Gas Emergencies
(1/24/2020 10:00-12:00 Location: GRANADA I)
Instructors: Tommy Jambon, James Barnard
A natural gas emergency is a leak that represents an existing or probable hazard to persons or property and requires immediate repair or continuous action until the conditions are no longer hazardous (downgraded from a Grade 1 leak). Natural gas emergency situations that require immediate response may include the following: (See §192.615 for further information).
- Gas ignition or explosion;
- A hissing noise is present or there is any indication of a broken or open-ended pipe;
• Report of a pulled service or damaged facility;
• Reports of a gas odor; or
• Other identified (operator designated) emergencies.

Gas utilities prefer that emergency responders (e.g., fire departments) allow utility personnel to arrive and perform the "make safe procedures" they have been trained to do; however, emergency responders may arrive first on a scene that requires immediate action to ensure the safety of the public. For gas utilities, safety of life outweighs all other considerations. An emergency responder’s first duty is to protect life then protect property.

While in route and upon arriving on the scene, we must quickly evaluate the “make safe” options. Depending on the circumstances, there may be one option (or many). If there are many options, there may be one that is better for all. Choosing the wrong option can have a significant impact on public safety and infrastructure. Simply choosing to turn a valve may be the wrong choice and could have a detrimental impact downstream (or no impact at all). Many variables and the system’s design must be considered. This training provides emergency responders an overview of responding to natural gas emergencies and brings awareness to the strategic and calculated efforts on the part of the gas utility to make a ruptured pipeline incident safe. Specific examples of actual incidents will be discussed to provide practical application of this evaluation process.

**Same Circus, Different Clowns**
(1/21/2020 1:00-5:00 Location: GRANADA A)

**Instructors: CJ Haberkorn, Dana Brown**

This is a new class that is designed to focus on human performance, specifically as it relates to the hazardous materials technician. This class is an interactive approach to engage attendees in proactive discussion regarding near miss events that exist in the North American fire service and hazardous materials response. Ever sit back and wonder what it would be like to work as a firefighter at another department, perhaps in a different State? Or, have you ever thought "If only we had the money and the budget of that department, we would have no issues?" Well, time to face reality. HazMat spills and chemical behavior, for the most part, act the same way in New York City, as they do in Pine Bluff, Arkansas. "Same Circus, Different Clowns," is a 10,000-foot overview of the North American fire service and law enforcement hazards and emerging threats that we all encounter. This class takes an in-depth look at near-miss reporting and how the "lessons learned" from our brothers and sisters can help develop new and leading practices that positively impact fire fighter safety.

**Spill Response Strategies & Tactics**
(1/24/2020 10:00-12:00 Location: VISTA DEL MAR)

**Instructors: Nick Zamiska, Mark Vedder**

The transportation of flammable liquids and drilling products is on the rise with the increase of oil and gas exploration. With this increase, comes the additional potential for HazMat related spills. This one-day course is designed for emergency response personnel who are expected to take an offensive role in containing/confining spills that occur on roadways, in drainage systems, on the ground and in navigable waterways. This course is based on NFPA 472 and OSHA 1910.120 standards.
Key components include:

- Response considerations in safely identifying hazardous materials and researching their hazards (Emergency Response Guidebook, NIOSH, SDS sheets, Shipping Papers, Bad Day Training Response Guides).
- Verifying the appropriate level of PPE.
- Control, containment, confinement techniques (a site that includes drainage/stream is preferred for realistic scenarios).
- Vapor Suppression Techniques.

**Tactical Skull Session**
(1/22/2020 3:00-5:00 Location: GRANADA C)

**Instructors: Armando Bevelacqua, Michelle Murphy**
Duty Calls Basic to Basics has taken HazMat education into the gaming arena. It is a practical approach to knowledge-based skills. The presentation is built around the idea of immersing the student into the context of an incident. By doing such, you have given the student a platform by which they can investigate new techniques, hone old ideas, and expand their knowledge base. The concept is simple, teach response options through a contextual application i.e. scenario and discussion will bring forth new ideas and reinforce old skills. We have taken scenarios to a whole new level of interaction, that of a computer game in which the student can explore many tactical objectives and options (all within the comfort of a game).

**Tactical TIPS: An Evidence-Based Approach to PPE Selection**
(1/24/2020 10:00-12:00 Location: PLAZA REAL A)

**Instructor: Christina M. Baxter**
PPE selection is a critical component in an effective risk-based response. The National Fire Protection Association's Technical Committee on Hazardous Materials Protective Clothing and Equipment is responsible for four standards including NFPA 1991 (vapor protective ensembles), NFPA 1992 (liquid splash protective ensembles), NFPA 1994 (PPE for first responders to HazMat/CBRNE events), and NFPA 1891 (selection, care, and maintenance). This scenario-based course, will demonstrate the use of decision logic for the proper selection of PPE.

**Tactical TIPS: Challenging the Decontamination Paradigm**
(1/24/2020 8:00-10:00 AM ET Location: PLAZA REAL A)

**Instructor: Christina M. Baxter**
New and evolving research on the nature of the interaction of gases, skin, and clothing in operationally relevant timelines provides a basis for rational decision making by first responders dealing with potential casualties in the event of a chemical release. This session will provide the users with the information necessary to make timely science-based decisions related to skin decontamination.
Tactical TIPS: Emerging CBRNE Threats & Operational Response Considerations
(1/23/2020 8:00-10:00 Location: PLAZA REAL B)
Instructor: Christina M. Baxter
Over the last 12 months, there has been an increased interest from pro-ISIS groups in the development of CBRNE threats and the implementation of attacks. This presentation will focus on the evolving threat (Opportunistic, Chemical, Biological, Radiological/Nuclear, and Explosive) 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.

Tactical TIPS: Killing Ourselves Slowly (Resolving Fire Exposure Facts from Fiction)
(1/23/2020 10:00-12:00 Location: PLAZA REAL B)
Instructor: Christina M. Baxter
Scientific studies have been performed over the last decade characterizing the fire smoke in operational environments as it relates to fire suppression, search/rescue, and overhaul. The compilation of this data provides the operator with a more complete picture of the operational environment and the subsequent exposures to toxic combustion byproducts. The large body of data has supported the development of decision support tools and operational guidance to minimize exposure. Implementation best practices will be shared.

The Bomb in Your Backyard – Advanced Techniques for Response to Commercial CNG Vehicle Fires
(1/23/2020 10:00-12:00 Location: GRANADA G&H)
Instructor: Christopher Gould
Compressed Natural Gas (CNG) cylinders contain over 20 times the pressure of propane cylinders and have critically different construction features. Firefighters using propane tactics for CNG truck fires are causing the CNG cylinders to fail and torpedo up to a quarter mile away from the incident sending fire and shrapnel into nearby homes and businesses. The student will learn what to do when “standing back” is not an option. This is an advanced class and is geared toward those who have experience and an understanding of compressed gas and liquefied gas container incidents.

The British Novichok Attack – A Case Study
(1/23/2020 3:00-5:00 Location: PLAZA REAL B)
Instructor: Rick Edinger
On March 4, 2018, Sergei Skripal, a former Russian military officer and double agent for the British intelligence services, and his daughter were poisoned in Salisbury, England. After lengthy hospitalizations, both survived the attack. The investigation revealed that the poison used was Novichok, a chemical nerve agent developed by the Russian government and that two Russian intelligence agents transported the nerve agent materials into Britain to facilitate the attack. A second exposure of two additional people in June 2018 resulted in the death of one individual and
the hospitalization of another. These cases resulted in international intrigue and an increased awareness of this little-known nerve agent. The two exposures, subsequent decontamination efforts, and resulting community concerns are a remarkable case study of the use of chemical weapons as an assassination weapon and the aftermath of such an event. This case study will review the sequence of events that led to these poisonings and the extensive emergency response, political, and environmental concerns that resulted.

**The Devil is in the Details**  
(1/22/2020 3:00-5:00 Location: GRANADA B)  
**Instructors: Bob Coschigano, Derek Schaumann**  
It is often the small details which can make incidents difficult or challenging. These details can prolong an operation or foil an otherwise straightforward response. In this course, we will identify commonly confused information and other simple errors that can have costly consequences whether dealing with a transportation incident or a fixed facility.

**The New Florida Medical HM Protocols/ Now Available Nationwide**  
(1/22/2020 1:00-3:00 Location: GRANADA C)  
**Instructors: Richard Stilp, Armando Bevelacqua**  
This presentation will be a review of the New (2019) Florida State HazMat Medical Protocols. In addition, the authors of the Florida Medical Protocols will review the on-going efforts to present these protocols nationwide to provide consistency in training and of treatment of chemically injured patients. The new HazMat Protocol book is currently being published with protocols, flow charts, the B&S Chemical Triage System, and quick reference charts are part of this nationwide effort, and will be presented in this course.

**There is Something About Mary**  
(1/21/2020 8:00-12:00 Location: GRANADA A)  
**Instructors: CJ Haberkorn, Dana Brown**  
For the last several years, there has been a nationwide push to legalize the recreational use of marijuana in the United States. Recently, 11 states have passed legislation that allows recreational and medical marijuana use. This new addition, to this American pastime, has created a whole new set of uncontrollable factors for members of the American fire service to train and plan for. As a result, marijuana grow operations are opening up in the communities we serve, faster than fire departments can plan, train and implement safe operating procedures when called to respond to these facilities. Marijuana grows are developed and implemented to maximize the space used, in order to produce higher harvests, thus producing higher profits. In order to do this, netting and wire mesh are used to allow the plants to grow out versus up, producing more buds that can be sold for consumer use. This poses new and increased entanglement hazards for interior fire attack crews. Heavy high voltage lighting is installed to simulate sunlight (so the plants will grow), thus creating increased overhead fall hazards. Chemicals such as sulfur and carbon dioxide are used to control molds and increased tetrahydrocannabinol production. An unrealized consequence to the madness that marijuana has created, is the increased use of butane hash oil. This new challenge and growing popularity have dynamically changed the landscape of the American fire service. The processes, hazards and real-life case studies, will be covered during this class to increase the situational awareness of responders. This class was developed to show
historical data and decision-making processes by the citizens of Colorado, lawmakers, and ultimately the Federal government.

**The Voodoo of Natural Gas Incidents**  
(1/23/2020 1:00-5:00 Location: GRANADA I)  
**Instructor: David Bullard**

Firefighter training typically lacks a significant amount of training on natural gas incidents. The missing information can seem like voodoo until the firefighter is exposed to the concepts and proactive practices of natural gas leaks. Being a high frequency event for fire response, the ability for a fire department crew or HazMat team to play a significant role in preventing a catastrophic event is huge. This course will use case studies, scenarios, and interactive discussion to enhance response and mitigation of natural gas emergencies.

**The Wild, Wild World of Illicit Drug Labs: Meth, Bath Salts, Synthetics, and Now Fentanyl!!**  
(1/22/2020 1:00-5:00 Location: PLAZA REAL A)  
**Instructor: Tobias Frost**

Bath salts, spice synthetics, and now fentanyl!! What are we getting into? What are the hazards of these unknown mixtures? We will look at the history, components, and chemistry of these drugs as well as current trends in these operations. We will examine the alphabet soup of chemicals and explain what they are. We will look at the strategies and technology we need to identify these chemicals. We will also explain why these labs are so hard to stop. We will look at fentanyl labs, the chemicals and hazards present, along with the extreme toxic issues that responders need to be aware of. We introduce an SOP for PPE selection and decontamination, based on a risk-based response model. Several case studies will be used to help identify the hazards and equipment that may be encountered. Illicit labs are not going away and there’s so much more than just meth and fentanyl. We have just seen the tip of this iceberg and it’s not going away. It is critical that responders can recognize the processes and associated hazards to safely mitigate them. Come join me as we explore the ever-changing landscape of illicit drug labs.

**Thinking Fast; Rapid Hazard Analysis and Field Screening**  
(1/23/2020 8:00-12:00 and 1:00-5:00 Location: PLAZA REAL C)  
**Instructors: Douglas Wolfe, Steve Coffin, Kenneth Treffinger**

The quick determination of the hazards of a material is essential to the early decision making at a hazardous material incident. This session focuses the technicians’ attention on the key physical and chemical properties that must be evaluated in the first few moments of an incident to guide the initial hazards analysis so that risk-based decisions can be made. Whether the identity of the material is known or not, the technician will leave this program with a functional understanding of the essential keys to product hazard analysis using information obtained from detection equipment and field screening techniques.
Inside the Fenceline: Response to Emergencies at Chemical Facilities
(1/22/2020 10:00-12:00 Location: PLAZA REAL B)
Instructors: Keith Silverman, PhD, MPH, William Cullen
Emergency responses to chemical manufacturing facilities, that produce and store potentially hazardous chemicals, can seem daunting and challenging. Since these are not your “bread-and-butter” calls, you may not have the familiarity, experience, and/or training to feel you can safely and effectively handle them. This session will better prepare responders to handle incidents “inside the fence line” of chemical facilities. We will begin by learning how to size up a chemical facility as well as learning about some common activities that take place inside the fence line. Then we will cover strategy, tactics, and tips for handling incidents and rescues involving potentially hazardous materials.

Unstable Materials: Oxidizers, Monomers and Organic Peroxides
(1/24/2020 8:00-10:00 Location: GRANADA C)
Instructors: Keith Silverman, PhD, MPH, William Cullen, Michael Callan
Energy is always dangerous at a hazardous materials emergency. After explosives, unstable materials are some of the most reactive and unpredictable situations responders can face. Unstable materials may decompose, condense, polymerize or self-react. Temperature, shock, light, contaminants, incompatibles, or the loss of inhibitor may trigger an uncontrolled exothermic reaction. Monomers, when uncontrolled, may undergo runaway polymerization reactions. Organic peroxides inherently possess two or even three sides of the fire triangle and as a result may rapidly, exothermically, and sometimes explosively disintegrate. There is no single hazard class for unstable materials because they often present multiple hazards.

Why Buy the Cow If You Can Get the Milk for Free’ (HazMat Cost Recovery from a Local and State Perspective)
(1/22/2020 1:00-5:00 Location: GRANADA I)
Instructor: John ‘JW’ Scott III
Hazardous materials or HazMat response can eat up a huge amount of resources in the form of personnel time, equipment usage and consumables. In extreme cases, a large response could cost a public fire department a large portion of its annual budget. In many cases state statutes will allow fire departments to do what many refer to as ‘cost recovery,’ whereby the FD can claim back costs directly associated to the HazMat incident response. In most situations, the offending or responsible party (e.g. the transporter or industrial site) is the one liable to pick up the bill. This presentation is geared towards educating fire departments in the legalities of cost recovery as well as step by step procedures in the recovery of these costly events.
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James Barnard
Responding to Natural Gas Emergencies
James began his career at TECO Peoples Gas in 1989. He holds certifications from DDI, NACE and Smith System. James has 30 years of experience in the Natural Gas Industry that includes Distribution, Service, Leak Response, CP, Construction Inspection, GIS and Safety.

Richard Barrett
Incident Command & Emergency Response for natural Gas Transmission Pipelines
Employed in the natural gas transmission industry for the past 44 years. Having worked in a number of different facets of the business, from construction, to dealing with various customers in the delivery of volume gas. My focus now is in the damage prevention / public awareness program that Florida Gas provides to emergency responders, excavator contractors, public officials, and the general public. Topics range from response to an emergency to overall awareness of the proximity and necessity of transmission pipelines in our communities.
Christina Baxter, Ph.D.

Tactical Tips: Challenging the Decontamination Paradigm
Tactical Tips: Emerging CBRNE Threats & Operational Response Considerations
Tactical Tips: Killing Ourselves Slowly (Resolving Fire Exposure Facts from Fiction)
Tactical Tips: An Evidence-Based Approach to PPE Selection

Dr. Christina Baxter is the CEO of Emergency Response TIPS, LLC which provides practical, evidence-based solutions for emergency response through the development of next generation tools for enhanced situational awareness and responder safety; instructional design materials for instructor-led and web-based programs in the areas of CBRNE, hazardous materials, and clandestine laboratory response; technology transition guidance for emerging technologies; and, emergency planning for hazardous materials and emergency response. Prior to forming Emergency Response TIPS, LLC, Dr. Baxter was the CBRNE Program Manager for the Department of Defense’s Combating Terrorism Technical Support Office where she was responsible for identifying capability gaps in the combating terrorism CBRNE mission space, illuminating or developing innovative solutions, and delivering them to military, interagency, and law enforcement operators in the field as rapidly as possible. Dr. Baxter holds B.S. degrees in Chemistry and Environmental Science from the University of Massachusetts at Amherst and a Ph.D. in Analytical Chemistry from the Georgia Institute of Technology. She has greater than 20 years of experience in the hazardous materials/CBRN response community where she remains active in teaching and participating in standards development processes. She is currently the chairperson of the NFPA Technical Committee on Chemical Protective Clothing and is a member of the NFPA Technical Committees on Hazardous Materials/WMD Operations; Firefighter Health and Safety; Technical Committee on Tactical and Technical SCBA; and, others. Dr. Baxter is also a member of the Interagency Board, the IAFC Hazmat Committee, and the IAFF’s Hazmat Advisory Board.

Armando Bevelacqua- Key Note Presenter

Introduction to Proper GC/MS Sampling Techniques
The New Medical HM Protocols/Now Available Nationwide
Tactical Skull Sessions: Duty Calls

Armando S. “Toby” 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 recipient of the 2017 Deter Heinz, Hazmat Instructor of the Year Award. Recently 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 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. Toby is a 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. His latest endeavor is to create educational videos for the first response community. Educating new and seasoned responders to the ever-advancing technologies that are entering the first response arena.

**David Binder**

**Anhydrous Ammonia Response - Applying Tactics to Scenarios**

David Binder is a member of the National TRANSCAER® Executive Committee and Task Group and chaired the curriculum committee that put together the TRANSCAER 2011/2012 Anhydrous Ammonia training program. David is the Director of Quality, Safety & Regulatory Affairs for Tanner Industries, Inc based in Southampton, PA. He leads the Ammonia Safety & Emergency Response Training program known as ASERT program. He has been in the ammonia industry since 1992. David facilitates ammonia safety and emergency response training programs throughout the world for industry, fire department, emergency response and emergency management personnel. He speaks and presents at numerous Federal, State and Industry Association conferences. He is very involved and in leadership positions with various industry associations, including the National Association of Chemical Distributors (NACD), World Food Logistics Organization (WFLO), national standards associations such as American Water Works Association (AWWA), Compressed Gas Association (CGA); and public sector organizations such as LEPCs (David Chairs the Philadelphia LEPC).

**Joseph A. Bonnell, PhD**

**Mind OVR Matter: Virtual Reality (VR) for HazMat Training and Decision Making**

Dr. Joe Bonnell has served the Phoenix Fire Department for over 20 years and currently supports the Operations Division as a Captain/Paramedic. As a professor with the Maricopa Community Colleges, he teaches multiple courses in the Emergency Management program and serves as the Co-Chair of the Paradise Valley Community College Curriculum Development Committee. Currently, Dr. Bonnell is involved in the development and design of an accredited Chief Officer Leadership program for several higher education learning institutions. He holds numerous professional certifications including Nationally Certified Hazardous Materials Technician (NFPA 472), Nationally Certified Technical Rescue Technician (NFPA 1006), Terrorism Liaison Officer, and holds the Incident Safety Officer Systems Curriculum Credential (ISOS 1521). Dr. Bonnell has published and presented his research on fireground training and skill decay at international conferences including Fire-Rescue International (FRI). He has a B.S. in Business Administration, an M.S. in Fitness and Health
Management, and a Ph.D. in Public Policy and Administration, with emphasis in Emergency Management. Joe can be reached at DoctorBonnell@gmail.com.

**Billie Boyd**

**MC 331 Tank Truck Special Problems and Solutions**

**Flammable Liquid Tank Truck Fire Attack**

Over the last 15 years, Billie has worked as a support Instructor, Haz Mat Research and Development Associate, and program facilitator for Safety Systems, Inc. and HazMat 1 Rapid Response LLC.

**Robert Bradley**

**Developing and Implementing the HM Group Operational Plan**

**LNG Overview for the First Responder**

It’s All About Interpretation

**Recognizing and Responding to Commercial Explosives Incidents**

Robert Bradley has worked in the fields of Fire Fighting, Administration and Hazardous Materials Emergency Response since 1976. He had worked up through the ranks from Fire Fighter, Lieutenant, Captain, Interim Chief and Deputy Chief, and retired as a Battalion Chief for the Middletown, CT Fire Department in December 2008. He served as the Commander of the MFD Dive Rescue Team, Marine Unit and HazMat Response Teams. He was also served as the Middletown Fire Department's Emergency Operations Center representative. His certifications include: Incident Safety Officer, Confined Space, Technical Rescue, ICS/NIMS, Hazmat Technician, Fire Officer 1 & 2, CAMEO, CoBRA, Fire Service Instructor 1 & 2. Bob served as Safety Officer for Connecticut's participation in the TOPOFF 3 exercises. He had been Chairman of Middletown’s LEPC Emergency Planning and Response subcommittee. He has conducted Hazard Analysis activities and developed Regional Emergency Planning databases. Bob is a former Chief Instructor of Hazardous Materials and CAMEO for the Connecticut Fire Academy. He is a nationally certified Fire Service Instructor and a NOAA/EPA certified instructor for CAMEO™ and ALOHA™, and has conducted training across the United States and US Territories. Mr. Bradley is a Senior Instructor for the National Center for Biomedical Research and Training with Louisiana State University providing expertise in CAMEO and Emergency Response Training. He is also an Adjunct Instructor for Texas A&M Engineering Extension Service, providing expertise in Critical Infrastructure Protection and Threat and Hazard Identification and Risk Assessment. He currently resides in Cromwell, CT. He is the principal consultant of Education & Compliance Solutions providing emergency response and emergency management training and consulting in areas such as HAZMAT and firefighting services to responders in Government and Industry. Bob enjoys traveling, scuba diving, and offshore sport fishing and is a U.S.C.G. Licensed Charter Boat Captain. Bob has an AS Degree in Fire Technology and Administration from Hartford State Technical College in 1985, and is finishing his BS Degree in Public Safety Administration at Charter Oak University.
Dana Brown

There is Something about Mary
Same Circus, Different Clowns

Dana Brown has 21 years with the Houston Fire Department and is a Captain, currently assigned to the Hazardous Materials Response Team. Dana holds dual MBAs and is a PhD Candidate. She is an Aviator and Veteran of the United States Army and flew the AH-64D Apache Helicopter for the 1-149th Aviation Attack Battalion in Texas. Dana has a decade of experience in Search and Rescue and as a K9 handler. Currently, she is an international hazmat and WMD instructor for first responders. She also works for the IAFC’s Near Miss Program as a reviewer, sits on the IFTSTA validation committee for Hazmat, and serves on the NFPA 472/1072 committee.

David Bullard

Rail Car ID and Leak Control
The Voodoo of Natural Gas Incidents

David is a 19 year member of the fire service and currently serves as a Lieutenant and coassigned to the Training Division with the Columbia County Fire Rescue (Ga.) and a part time Firefighter with Grovetown (Ga) DPS. In addition, he serves on the Board of Directors for the Georgia State Firefighter's Association and was Secretary of IFSTA's Pumping Apparatus Driver Operator 3rd Edition Curriculum Committee, and is an ER Supervisor with HEPACO LLC. As an active instructor for the Georgia Fire Academy and in private industry, David is constantly engaged with teaching live fire, leadership, HAZMAT, and Firefighter Survival/RIT classes.

Jessica Caballero-Ashmeade

Mercaptan - The Smell of Danger

Jessica is the Training and Safety Manager, at Clearwater Gas System (CGS). She is additionally responsible as the administrator for the federally mandated Operator Qualification (OQ) Program of the Code of Federal Regulations 49 Part 192 Subpart N ensuring the CGS work force populous follows the written CGS OQ plan, defining the training and qualification requirements. Ensuring through knowledge and skill assessments that safety is paramount for all personnel performing potentially hazardous covered tasks on the CGS gas distribution facilities.

Jessica holds various certifications to include a State of Florida 601 LP License DOACS which provides competency and related safety in the areas of Natural and LP gas; related gas appliances or equipment; installing, servicing and repairing Natural and LP gas appliances and equipment; installing carburation equipment; requalifying cylinders.

Previous to the Clearwater Gas System, she worked in law enforcement as a police officer and was a HAZWOPER trained responder for her department to include, emergency response operations for releases of, or substantial threats of release of, hazardous substances, with the initial focus of protecting life and property.

Jessica has a strong gas industry background and has taught, written, and spoken on natural and propane gas Hazardous materials topics and provides at various fire departments to fulfill the requirements of CFR 49 Part 192.615 of acquainting the officials with CGS’s ability in responding to a gas pipeline emergency.
Chris Cahill
PreCon HazMat Tech Refresher
Chris Cahill is a member of Seminole County Fire Department and has 20 plus years of HazMat and technical rescue experience. He is a Florida Fire Instructor 1. He has responded to numerous tanker rollovers in his career. His experiences and knowledge will provide the students with a very strong background in handling hazardous materials emergencies.

Steve Coffin
Thinking Fast: Rapid Hazard Analysis and Field Screening of Hazmats
Steve Coffin has been in the fire service for 38 years, starting as a volunteer then becoming a paid firefighter. He is a National Registry and Florida certified paramedic with 35 years’ experience and has been a hazmat/special ops technician for 33 years. Steve started teaching in the late 1990s and has taught hazardous materials courses around the country. Steve has been a National Fire Academy instructor since 2002 and is able to teach Advance Life Support Response to Hazmat and Chemistry for Emergency Response. Steve has helped develop the Florida Operational Level training program, Florida hazmat medical protocols and the evaluation tool for the state regional hazmat teams. Steve retired from Sarasota County Fire Department after 30 years. He went on to become the Hazmat Coordinator for the North Charleston Fire Department and is currently the coordinator for the CSAR/Hazmat regional response teams at the State Law Enforcement Division for South Carolina.

Robert Coschignano
HazMat Roundtable (there is more than one way)
The Devil is in the Details
Mr. Coschignano has been in the fire service for 27 years most of which has been in Special Operations. Mr. Coschignano has served on several hazardous materials related committees. Mr. Coschignano is an instructor and evaluator for several local and state competency drills. He was the program manager for the Hazardous Materials Technician program at Valencia College. Mr. Coschignano is also DEA certified in Clandestine Labs. Mr Coschignano is Co-Author of Chemical Card Guide and Risk Based Response Quick Chemical Access Cards published by RedHat publications and has been featured in both Fire Engineering and Firehouse magazines. He is Co-host of The HazMat Guys Nation Roundtable. He also holds an A.S. degree in Fire Science and is currently a Hazardous Materials Lieutenant with the City of Orlando Fire Department.
Jesse Crews

HazMat Breakout

Jesse started his career in 1988 with Hilliard Volunteer Fire Department where he achieved the rank of squad captain. In 1990 he moved to Nassau County Fire Rescue Department where he worked until 1996. In 2004 he was hired by Winter Springs Fire Department which later merged with Seminole County Fire Department. In 2010 he was assigned to the special hazmat and operation team. Jesse received his instructor certificate and has enjoyed teaching a variety of technical rescue and hazmat related classes. Most recently he achieved the certification of live fire instructor and looks forward to gaining knowledge to pass on to colleagues in our career.

Craig Crume

Introduction to Proper GC/MS Sampling Techniques

Craig Crume is the Training Manager for FLIR Detection. He has over 30 years of analytical experience, and over 20 years of experience performing, training and supporting field analysis. Mr. Crume has trained thousands of Responders in the use of advanced technologies including GC/MS.

Robert Cruthis

HazMat Breakout

Robert Cruthis has been a member of the Seminole County Fire Department since 2000. He has been assigned to the Special Hazards & Operations Team (SHOT) since 2004 and, during the same period, participated on the Seminole Counties Safety Committee. Over a 5-year period, Robert served as an active member of Florida Task Force 4, Urban Search and Rescue Team. For the last few years he has been teaching different disciplines of Special Operations. He has taken an in-depth interest in Tox Medicine and was recently invited to be a reviewer of the Florida State Hazardous Materials Medical Protocol project. Robert is passionate about learning and teaching. Taking his own experiences, both good and bad, and the experiences of others, he develops training with the goal of improving the knowledge and skill of his students while decreasing preventable injuries and/or exposures.

William Cullen

Responding to Emergencies in the Laboratory Transcaer: Inside the Fenceline; Response to Emergencies at Chemical Facilities Unstable Materials; Oxidizers, Monomers, and Organic Peroxides

William Cullen has been an emergency services provider for over forty years. He is a former Fire Chief, former Fire Commissioner and is still an active firefighter. Bill is currently a senior fire instructor with the Somerset County Emergency Services Training Academy in New Jersey. Up until his retirement in 2012, Bill was the Assistant Emergency Coordinator for a large fortune 100 research company in New Jersey. He is a member of Franklin Township Office of Emergency Management as a Hazardous Materials resource. He is a Principal in GoldShield TEAM LLC, a company dedicated to providing Training, Education, Assessment and Management to municipal agencies, businesses and fire
departments. Bill is a frequent speaker at many of the major Hazardous Materials conferences throughout the country.

**Frank DeFrancesco**

Foam Application for Transportation Emergencies Involving Petroleum and Polar Solvents like Ethanol

Frank DeFrancesco started in the fire service in 1982 with Spring Hill Fire Rescue. In 1984 with the City of Largo (FL) Fire Department and spent 21 years with the department along with participating on the Pinellas County Hazardous Materials Team in which in 2001 became one of the team commanders. In 2005 he moved to Hernando County Fire Rescue as the training officer and subsequently becoming the Assistant Chief of Operations, in 2013 returned to the rank of Captain in order to finish school. Currently Frank serves as the Hernando County Hazmat Team Commander in which he has held the position since 2005. Frank holds a Bachelors of Business Administration and has extensive training in hazardous materials, incident management and exercise design. In addition, he is currently in school finishing a Master’s degree in Executive Leadership. He brings to Response Technologies over 29 years of hazardous materials instructional experience.

**Mike Deegan**

Mercaptan - The Smell of Danger

**Dave Donohue**

Push Ups, Sit Ups, and the Importance of Exercising Your Organizational Capabilities Loch Ness, Big Foot, and Dale’s Cone of Learning. Myths, Lies, and Legends of Training

Dave Donohue has 40 years of experience in emergency services operations, preparedness, mitigation, and response. He has worked at the local, regional, and federal levels and with private industry and non-governmental organizations in Florida, Alabama, Maryland, Pennsylvania, Virginia, Washington D. C, and West Virginia. He is the owner of Mid-Atlantic Emergency and Safety Consultants, LLC, located in Hagerstown, Maryland, and is a fan of the Hagerstown Suns minor league baseball, Hershey Bears Hockey, and Shepherd University football. He holds degrees and advanced education in Public Administration, Disaster Science, Curricula and Instruction, Organizational Studies, Fire Science Technology, Emergency Medical Services, and Weapons of Mass Destruction. He can be reached at dkdonohue@aol.com.

**Tim Dorsey**

Game On! The Florida HazMat Team Competition Overview and Insights

Tim has served in both line and supervisory positions throughout his 28-year career in the fire service working on engine, ladder, rescue, and EMS units. He is a Division Chief with the Lake Ozark Fire District and currently also serves as the Chairman of the Missouri State Fire Safety Education/Advisory Commission in the Office of the State Fire Marshal appointed by the Governor since 2000. Tim currently serves the Deputy Chair on the Inter Agency Board and has been a
member since 2006. He has instructed internationally in various disciplines including Water/Swiftwater Rescue, Rescue Boat Operations, Haz Mat, and Technical Rescue disciplines. He has been an adjunct instructor with the U.S. National Fire Academy, Master Instructor with the USA Rescue Network, and holds instructor positions with National, State and Local organizations. Regionally, Tim served as the Deputy Chair and a TFL on the St. Louis County Special Operations Team Tim which provides major incident Haz Mat and Technical Rescue coordinated response and management to the St. Louis Metropolitan UASI Region for incident response and planned events. Tim also serves as a Rescue Team Manager on FEMA/Missouri US&R Task Force 1 and was deployed twice to New Orleans for Hurricane Katrina as well as other National and State deployments including the Joplin Tornado of 2011 and the Colorado Floods of 2013. He also serves on the FEMA US&R National Incident Support Team and was deployed in 2018 to Texas for Hurricane Harvey and to Florida for Hurricane Irma. Tim was the Tactical Paramedic coordinator for the FBI St. Louis Tactical Team from 2011-2016 and was awarded the Missouri Public Safety Officer Medal of Valor from Missouri Governor Jay Nixon in December 2015.

**Steve Doyle**  
*Game On! The Florida HazMat Team Competition Overview and Insights*

**Henry (Hank) DuPont**  
*Developing and Implementing the HM Group Operational Plan*

Hank DuPont is recently retired as Chief of the Emergency Response Division for the Kansas Office of the State Fire Marshal. Chief DuPont provided oversight of the nine regional hazardous materials teams and seven rescue task forces in the state of Kansas. He retired from the City of Overland Park Kansas Fire Department in 2012 where he was Special Operations Chief in-charge of HazMat, Technical Rescue, and Homeland Security. Chief DuPont has over 38 years of fire service experience and has taught Hazardous Materials Operating Site Practices for the National Fire Academy (NFA). He recently was involved in the Jack Rabbit II project for large-scale chlorine release and was an SME for the development of the NFA Advanced Science of Hazardous Materials Response course. Chief DuPont has also been an adjunct instructor for the Johnson County Community College hazardous materials program, and a field instructor for the University of Kansas Fire Rescue Training Institute and the University of Missouri. He holds an Associate Degree in Fire Protection and a Bachelor's Degree in Management of Public Safety.

**Robert Eckroade**  
*HazMat/CBRN Performance Standards & Next Generation PPE*

Robert Eckroade is a Market Specialist for GORE® CHEMPAK® Products in Fire Service, Law Enforcement and Defense applications. Robert seeks to understand the operational capabilities and CBRN PPE needs of first responders in both hot and warm zone environments; he is a member of the International Association of Bomb Technicians & Investigators and author of Understanding Performance Standards for Law Enforcement CBRN Protective Apparel (The Police Chief/July 2010). Robert has a Bachelor of
Science in Business Administration from the University of Delaware and has worked for W. L. Gore & Associates for over 35 years. [reckroad@wlgore.com]

**Rick Edinger**

**The British Novichok Attack - A case study**

Rick Edinger has worked in emergency services for more than 45 years as a volunteer and career firefighter, medic, and hazmat responder. Chief Edinger currently serves as chairman of the NFPA Technical Committee for Hazardous Materials Response Personnel. He retired in 2018 as Deputy Chief of Operations from Chesterfield County Fire and Emergency Medical Services (CFEMS), a metro-sized, all-hazards, emergency response organization in central Virginia. Chief Edinger is trained as a hazardous materials technician and served for 25 years as a member of the CFEMS Hazardous Incident Response Team. He previously served as the vice-chairman of the International Association of Fire Chiefs (IAFC) Hazardous Materials Committee for a number of years and continues to sit on that committee. Chief Edinger holds a Bachelor of Science degree in fire science technology from Columbia Southern University and is a graduate of the National Fire Academy’s Executive Fire Officer Program.

**Matt Elliot**

**Responding to Natural Gas emergencies**

Matt Elliott is the Manager of Safety & Assurance for TECO Peoples Gas (PGS). PGS is a natural gas distribution company with 400,000 customers across the state of Florida and in each major metropolitan area. Matt has been with TECO for 12 years and specifically with PGS for three and a half years. In his first two years at PGS, Matt was responsible for developing a quality assurance program for the company’s Operations and compliance efforts. A year and a half ago, he transitioned into the role of managing safety. He manages a team of seven who are responsible for occupational safety, pipeline safety, emergency management, and environmental safety. The team does safety and emergency management and training with the company’s team members, as well as periodically with fire and hazmat groups throughout Florida.

**Richard B. Emery**

**Back up Team Concepts**

**Left of Boom!!**

Rick is President of Emery & Associates, Inc., a firm specializing in consulting and emergency response training since 1993. He began his fire service career in 1970 in the Chicago-metro area and has over 48 years of experience in emergency response. Rick attained certification as a Firefighter III, Fire Instructor II, Fire Officer II, Haz Mat Technician and Haz Mat Specialist.

Rick was appointed as the first team Coordinator to create the Lake County Hazardous Materials Response Team in 1983. He was a lead hazardous materials instructor at the Illinois fire academy, and an adjunct instructor for the National Fire Academy. He retired from the fire service in 1993 as a career Captain, including 10 years as Coordinator of the Lake County Hazardous Materials Response Team. Rick validated as a Subject Matter Expert for the Department of Defense Domestic Preparedness training program in 1997. He has presented over 2,000 hazardous materials and terrorism training
courses to municipal, government and industrial concerns, including the FBI’s hazmat program and at the Department of Justice Center for Domestic Preparedness in Anniston, Alabama. Rick provided training as an ICS team leader at the Salt Lake City Olympic Games and was a member of the team that assessed emergency services at Guantanamo Bay Naval Base in 2003. He provided advanced support for the Department of State and corporate security overseas. Rick is a principle member of the National Fire Protection Association Technical Committee on Hazardous Materials Response and a member of the International Association of Fire Chiefs Hazardous Materials Committee. He is a member of the Department of Homeland Security’s committee to develop performance criteria for methods for the detection and identification of biological threat agents. Rick is a frequent speaker at hazardous materials training conferences and classes throughout the United States, and he has conducted training in Canada, Europe, Cuba, Sweden and Asia.

The International Association of Fire Chiefs’ honored Rick with the “Level A” award at the International Hazardous Materials Response Conference in Baltimore in 2012. The “Level A” Award bestows the highest level of professional recognition to individuals who have provided an exceptional level of leadership, service and commitment to the mission and goals of the hazardous materials response community. Rick received the “In The Zone” award at the 2013 hazmat conference in Houston, Texas. The International Fire Chiefs Association bestowed the “John Eversole Lifetime Achievement Award” on Rick at the International Hazardous Materials Teams Conference on June 16, 2017, in Baltimore.

**Tobias Frost**

*The Wild, Wild World of Illicit Drug Labs: Meth, Bath Salts, Synthetics and Now Fentanyl! HazMat Rapid Intervention Team*

Captain Toby Frost is a 14-year member of the Lafayette Fire Department in Indiana. He is a Team Leader for the Lafayette Fire HazMat Team and Illicit Lab Team as well as the Tactical Rescue Team and Dive/Water Rescue Team. Capt. Frost serves as a HazMat Specialist for Indiana Home Land Security District IV and as a member of FEMA INTF-1.

**Rich Gatanis**

*Drones for HM Response & Detection*

*The Bomb in Your Backyard; Advanced Techniques for Response to Commercial CNG Vehicle Fires*

Ryan has been in consulting since 2002 and in the environmental field since 1995. He is currently President and CEO of two Environmental Health and Safety consultancy firms with coverage of Alaska, Washington, and Oregon. Ryan possesses degrees in Occupational Health and Safety and consults as a Certified Safety Professional (CSP #27306) through the Board of Certified Safety Professionals. Ryan’s industry knowledge in regulations is unparalleled in the industry with emphasis in Asbestos, Respiratory Protection and Confined Spaces being his strongest areas. Ryan has been in the Industrial Hygiene field since 2008 and helped dozens of clients lower their Experience Modifier Rate (EMR) in Workers Compensation as well as create easy to use systems for OSH based facility audits. Ryan’s experience in a broad range of industries, including construction, and maritime, and mining (specifically oil and gas well drilling) make him one of the foremost Environmental, Health and Safety experts in the Northwest. In addition to his vast field experience, Ryan is a sought-after training provider for many disciplines, including Emergency Planning,
Confined Space Rescue, and a wide variety of Hazardous Materials identification and remediation courses. Ryan is a Veteran of the Alaska Army National Guard and currently serves as the Commanding Officer for the Engineering Company of the Alaska State Defense Force.

**Ronald G. Gore**  
**MC 331 Tank Truck Special Problems and Solutions**  
**Flammable Liquid Tank Truck Fire Attack**  
Captain Gore, a 25-year fire service veteran was the driving force in starting the first municipal HazMat Team in the U.S. in 1977 at the Jacksonville, Florida Fire Department. In addition, he was cofounder of two Commercial HazMat Response Teams responding in the southeast U.S. to Tank/Cargo truck, Rail and Fixed Facility incidents. He and his team are innovators of hazmat leak, spill and fire control having shared vital information and lessons-learned with thousands over the past 40 years and states that he “is still learning”.

**Christopher Gould**  
**Drones for HM Response & Detection**  
**The Bomb in Your Backyard; Advanced Techniques for Response to Commercial CNG Vehicle Fires**  
Chris is current Battalion Chief of Special Operations with Southern Manatee Fire Rescue and has been employed there since 1990. He serves as the coordinator of the Manatee County Hazardous Materials Response Team where he has been a member of the team since 1996. Chief Gould also serves as the Field Training Officer Southern Manatee Fire Rescue. He is a Florida Certified Hazardous Materials Technician, a State of Florida Instructor 1, and a State of Florida Certified Paramedic. He holds an Associate of Arts in Business Management and an Associate of Science Degree Edison Community College in Fire Science. He also works as a Certified Trainer for National Alternative Fuel.

**CJ Haberkorn**  
**There is Something about Mary**  
**Same Circus, Different Clowns**  
CJ Haberkorn, Assistant Chief, Denver Fire Department. CJ Haberkorn is in his 21st year with the Denver Fire Department where he currently serves as Shift Commander. CJ has spent the majority of his career in Special Operations, specifically in Hazmat and is a SME for the Denver Fire Department for response, mitigation and recovery for Hazardous Materials Incidents. Currently, CJ is the Colorado Metropolitan Certification Board Hazmat Technician Chair, which sets the policy and procedures for PROBOARD certification for Hazmat Ops and Tech. CJ also sits on the IFSTA Validation Committee for NFPA 472, is a voting member for the training committee NFPA 472.
Jeff Hansen
HM Wet Chemistry; Field ID of the Unknown
HM Detective, Putting it all Together; Research, Chemistry, and Monitoring
Everything Carbon Monoxide: From EMS to Fire to Hazmat

Butch Hayes
Back up Team Concepts
Left of Boom!!

Is a 38-year veteran of the fire service and retired from the Houston Fire Department where he spent 27 years on the department’s hazardous materials response team. He is currently working for the Harris County Fire Marshal’s Office Hazardous Materials Response Team. Mr. Hayes sits on the IAFC Hazmat Committee, NFPA 472 technical committee, And the Texas Commission on Fire Protection hazmat ad hoc curriculum committee. He is also hazmat instructor for the Harris County Fire Marshal’s Office Training Division.

William Hellard
Hazardous Materials Sandtraps
Responding to Ammonia Incidents; A Company Officers Guide

Bill Hellard is a Captain with the Rogers Fire Department. He is a member of the Special Operations Team and Arkansas USAR Task Force 1. He is a Hazardous Materials Instructor for the State of Arkansas and the Ammonia Safety Training Institute. Bill the is owner of Think Safety Training LLC.

Michael Hildebrand  CSP, CFPS, CHMM
Hazardous Materials: Managing the Incident

Mr. Hildebrand currently is the principal with Hildebrand and Fish, LLC in Mount Dora, Florida. He is an experienced safety manager with a demonstrated forty-four-year history of providing consulting services in the fields of hazardous materials emergency planning, emergency management, crisis management, and emergency services for industry and public safety.

In 1989 he co-founded Hildebrand and Noll Associates, Inc. (HNA) with Gregory G. Noll. During their twenty-seven-year business partnership, they served as consultants to industry and government on over 700 consulting projects throughout the world.

During his career Mr. Hildebrand served as the President of Hildebrand and Noll Associates, Inc., as the Chief Technical Officer for Hazardous Materials Training, and Information Services,
Columbia, Maryland, as the Director of Safety and Fire Protection for the American Petroleum Institute, as a Research Assistant with the International Association of Fire Chiefs, and as a Hazardous Materials Technician with the National Transportation Safety Board in Washington, D.C.

Mr. Hildebrand served four years as an active duty firefighter and medic with the U.S. Air Force (1972-1976). He was an active volunteer firefighter for twenty years. From 1980 to 1990 he served as a member of the Prince George’s County (Maryland) Hazardous Materials Response Team where he held the position of Shift Officer for five years.


Mr. Hildebrand served 22 years as a member of the National Fire Protection Association (NFPA) Technical Committee on the Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents (NFPA 472). He is a former member of the NFPA Flammable and Combustible Liquids Committee (NFPA-30), and was a member of the NFPA Standards Council.

Mr. Hildebrand currently volunteers his time as the President of Yvorra Leadership Development Foundation (YLD), which he co-founded in 1988. YLD is a non-profit, tax-exempt organization that provides financial support to develop America’s future emergency response leaders through scholarships and special projects. www.yld.org.

He holds a B.S., in Fire Safety Analysis and Investigation, from the University of Maryland at College Park, and has an A.A. in Fire Science from Montgomery College, Rockville, Maryland. He is the recipient of the prestigious International Association of Fire Chiefs – Chief John M. Eversole Lifetime Achievement Award for “Providing leadership and contributions to further and enhance the hazardous materials emergency response profession.”

Jason Horowitz

**HazMat/CBRN Performance Standards & Next Generation PPE**

Jason is currently Product Specialist for GORE® CHEMPAK® Fabrics, chemical biological protective fabrics for first responders to CBRN and Hazmat incidents. Jason is committed to delivering personal protective equipment with enhanced functionality to first responders in military, law enforcement, and fire & safety service markets. Jason is an active member of the National Fire Protection Association and serves on the Hazardous Materials Protective Clothing & Equipment (NFPA 1991, 1992, & 1994 Standards) Technical Committee. Jason has a Bachelor of Science in Chemical Engineering from Lehigh University and a MBA from Villanova University. Jason has worked for W.L. Gore & Associates, Inc. for over for 8 years, most recently supporting the GORE-TEX® PYRAD® business for flame, arc and chemical protective clothing in the Oil & Gas Industry. Prior to his current commitment, Jason worked in Gore's Core Technology team in various roles, including product and new business development. Prior to Gore, Jason worked for 7 years at Sunoco as a Process Engineer in various Refinery and Chemical plants. [jhorowit@wlgore.com]

Ronnie Hutchison

**HazMat/CBRN Performance Standards & Next Generation PPE**

Ronnie Hutchison is a 17-year HazMat Technician with Clay County Fire Rescue. His passion for HazMat, safety, and training have brought him to the symposium to share his knowledge and experience.
Tommy Jambon

Responding to Natural Gas emergencies

Tommy Jambon works for TECO Peoples Gas where he has served 28 years as Paramedic/EMT, Safety/Health Safety Environmental (HSE) Advisor since 2007. He is a Safety Trained Supervisor Construction Certified – experience includes:

- Medic/Safety work on jack-up drilling rigs for ENSCO
- Medic/Safety/HSE Advisor on the TLP Shell Auger drilling/production facilities
- HSE Advisor for land drilling and completions in the Rocky Mountains for Shell
- HSE Advisor for subsea construction on the PSVM (Project for offshore pipeline in the Pacific off the coast of Luanda, Angola) BP.
- HSE Advisor for subsea construction and TLP Shenzi facility (Tension-leg Platform used for offshore production of oil or gas) construction for BHP Billiton
- HSE Advisor for Liquid Gas plant construction for BHP Billiton (Anglo-Australian multinational energy company)
- HSE Advisor for the drill ship West Vela drilling and completions for BP
- HSE Advisor for construction of civil pads for drilling and production facilities and complete facility construction

Katelynn Kapalo

Mind OVR Matter: Virtual Reality (VR) for HazMat Training and Decision Making

Katelynn Kapalo is a doctoral candidate in the Modeling and Simulation graduate program at the University of Central Florida. She currently works in the defense industry as a Research Psychologist with the Naval Air Warfare Center Training Systems Division (NAWCTSD), supporting large-scale (multi-billion dollar) research and development programs focused on the expansion and integration of Virtual and Augmented Reality (VR/AR) training capabilities for Joint Terminal Attack Controllers (JTACs), Landing Signal Officers (LSOs), and the undersea warfare community. Previously, Kate was one of three graduate students selected for the Naval Research Enterprise Intern Program Fellowship (NREIP) at the Naval Postgraduate School in Monterey, CA. There, she participated in the coordination and execution of the Joint Interagency Field Experimentation (JIFX) program. JIFX is a series of quarterly field exercises designed to fill capability gaps for the United States Unified Combatant Commands (COCOMs). Katelynn has experience conducting hazard analysis for several counties in Central Florida and previously worked as an intern with the East Central Florida Regional Planning Council (ECFRPC). Katelynn received her master’s in Modeling and Simulation with an emphasis on Human Systems and a graduate certificate in Modeling and Simulation for Technical Systems from the University of Central Florida in 2015. Her work has been published and presented at both national and international conferences, such as the Fire-Rescue International (FRI) Research Symposium, the Society for Fire Protection Engineering (SFPE) Annual Conference, the International Conference on Information Systems for Crisis Response and Management (ISCRAM), and the Human Factors and Ergonomics Society (HFES) Annual Meetings. She received a scholarship in 2018 from the National Training and Simulation Association (NTSA) for her dissertation research supporting the advancement of technology and information systems for the fire service. She can be reached at kate.kapalo@knights.ucf.edu
Robert King
HM Safety Officer
Effectively Leading and Managing HM Team

Robert King has 38 years of All Hazard Emergency Response experience within the fire service and emergency management arenas. Robert started his career with the Rochester Fire Department in Upstate New York and rose through the ranks to the position of Executive Deputy Chief. His career positions include Deputy Chief of Operations, Director of Training, Captain of Fire Investigation and the Arson Task Force, Commander of the Hazardous Material Team, Heavy Rescue Company Officer and instructor at the Training Academy. He was trained as part of the “first” City hazardous materials team in 1985 and upon being promoted to the rank of Lieutenant in 1988 he became the “first” HazMat Training Officer. Robert also served as the City’s Hazardous Materials Commander for 2-years, where he was responsible for all aspects of the 44-person team, including training, equipment purchasing, vehicles, and incident response. He was the City’s representative on the county-wide Chemical Hazardous Information Team (CHIT) that addressed standardized equipment, training, and operating procedures for the five over-the-road haz mat teams within the County.

As a DHS/FEMA certified instructor since 2006, Robert has been instructing incident command, emergency management curriculum and EOC operations courses for the Florida Division of Emergency Management. He has been instructing the FEMA NIMS ICS All-Hazards Position Specific courses throughout the State of Florida since 2009. Robert King has been a presenter at the Governor’s Hurricane Conference and Florida Emergency Preparedness Association annual conferences. Robert has developed and facilitated Emergency Operations Center (EOC) training, table-top exercises and functional exercises.

Michael Laycock
Incident Command & Emergency Response for natural Gas Transmission Pipelines

Joe Leonard
Developing and Implementing the HM Group Operational Plan

Joe Leonard is a 30-years veteran of the United States Coast Guard (USCG) and United States Army. He is an experienced Incident Commander/Planning Section Chief/Operations Section Chief who has served in a wide array of responses. He supervised the development of policies, protocols and procedures to activate and sustain the Coast Guard’s first full-time all-threats/all-hazards Incident Management Assistance Team in accordance with the National Incident Management System (NIMS). He was directly involved in developing and institutionalizing the use of the Incident Command System throughout the Coast Guard. In 2006, he received the coveted US Navy League Captain David H. Jarvis Award for Inspirational Leadership during the response to Hurricane Katrina. Fox News also recognized him as the “Power Player of the Week” for his actions during that response.
Monique Lewis
Determined Accord
Natural Disasters, Unnatural Hazards
Confined Space: HazMat or Technical Rescue?

Monique holds a degree in Emergency Management and Environmental Response and has 18 years of experience implementing various effective planning strategies to include Pandemic Preparedness and ecological disasters. Monique is certified by the Federal Emergency Management Agency (FEMA) as a Professional Continuity Practitioner (PCP) and the Board of Certified Safety Professionals (BCSP) as a Certified Safety Professional (CSP #34184). She is a graduate of the Crystal Coast Fire Academy in Atlantic Beach, NC and has training in many technical rescue disciplines, including confined space rescue, high and low angle rescue, and industrial rescue. Monique has demonstrated insight into multi-faceted safety aspects of emergency planning and response. Out of lessons learned from Hurricane Katrina where she served as the Incident Command for the first 72 hours of field response, Monique developed the concept and implemented Sprint Nextel’s first Hazardous Materials response team and managed that team for three years. In her capacity as a HazMat Technician, Specialist, and Incident Commander she responded to several hurricanes and chemical release incidents that impacted company facilities, assets, and personnel. Monique’s current position as a principal consultant for an Environmental, Health and Safety consultancy based in Kodiak, Alaska consists of consulting with industry professionals and expanding her knowledge base across various industries. Monique’s passion for Emergency Preparedness and Response still drives her on a daily basis.

Butch Loudermilk
PreCon HazMat Tech Refresher

Lieutenant with the Seminole County Fire Department and member of the East Central Florida Regional Planning Council with primary focus on Training Task Force. Experienced Instructor specializing in Hazardous Material, Heavy Extrication, High Angle Rescue, Trench Rescue, and Confined Space Rescue.

Phillip Mann
Hazard Assessment for Multi Hazard Scenarios

Philip Mann - As Technical Director for Kappler, Mr. Mann is responsible for technical support for Kappler’s chemical protective garments. He is a graduate of the University of Alabama, with a Bachelor of Science in Mechanical Engineering. He has been involved in the protective apparel industry since 1988, including research and development, technical support, training and product certifications. He is involved in training of professionals worldwide who specify or use chemical protective apparel. Mr. Mann serves as a member of the NFPA Technical Committee on Hazardous Materials Clothing and Equipment. He also has been involved in the ASTM F-23 Committee on Protective Clothing, the Institute of Environmental Science and Technology, the Association for the Advancement of Medical Instrumentation, and the American Nuclear Society.
Steven McCarthy

Foam Application for Transportation Emergencies Involving Petroleum and Polar Solvents like Ethanol

Steve is the retired Deputy Chief of Pinellas Park Fire Department and a past member of the Pinellas County Hazardous Materials Team.

Michel A. Moore

MC 306, DOT 406 Gasoline Cargo Tank Emergency Response
MC 307, DOT 307 Cargo Tank Emergency Response

Michael is the Operations Manager and a founding partner of Safe Transportation Training Specialists (STTS); a Carmel, Indiana based company established in 1999 that specializes in cargo tank emergency response training models, simulators, tools and other associated products. Michael is primarily responsible for the design and development of STTS’s unique training models, curriculum development and instruction. Formerly, he served with Chemical Leaman Tank Lines (CLTL) in the Mechanical and Tank Cleaning Division, overseeing process steam generation and waste management for the St. Louis, MO Terminal from 1979 to 1994. In 1994 Michael joined the Chemical Leaman Tank Lines Safety Department at the Corporate Training Center and instructed new employee orientations and continued to serve as on the corporate emergency response team where he responded to hundreds of cargo tank accidents and incidents. Michael concluded his carrier in the bulk transportation industry in 1999 to become a founding partner at STTS. Along with his tenure at CLTL and STTS, Michael continues his 42nd, year in Public Safety and Emergency Response by serving as a Part-time Firefighter with the City of Westfield Fire Department and Hamilton County, IN Emergency Response Team. As an active member of his community Michael has also served as a Chairman of the Hamilton Co. LEPC Resource Committee and has served as a TRANSCAER & Operations Respond Instructor. Additionally, he teaches on behalf of the Indiana Propane Gas Association and the Indiana Alliance of Hazardous Materials Responders.

A lifetime goal for Michael is to practice this — Ralph Waldo Emerson quote: “It is one of the most beautiful compensations of this life that no man can sincerely try to help another without helping himself.”

Michelle Murphy

Tactical Skull Session: Duty Calls

Michelle is the Division Chief of Communications for the City of Boca Raton Fire Rescue with more than 30 years of Fire/EMS response experience. Division Chief Murphy was one of the primary HazMat technicians at the first Anthrax incident in October of 2001, which lasted several months assisting federal agencies with the mitigation of the incident. She lectures to fire departments throughout North America on issues that surround hazmat medicine, medical surveillance, HazMat Safety and the recipient of the 2013 “In the Zone Award” for leadership, service and support in education of the hazardous materials first response community. Michelle has been involved in the development, management and delivery of many local, state, federal programs for several organizations including: National Fire Academy, International Association of Fire Fighters, and private
consulting firms employed by the Army to assess Civil Support Teams. She is a certified Dive Medic Chamber Operator, Hazardous Materials Technician and Tactical Medic. She also serves on several Hazardous Materials related committees at both the local and federal levels. Chief Murphy continues as a field evaluator, subject matter expert for several Hazardous Materials / WMD exercises, private industry and local emergency services. Much of Division Chief Murphy’s work has been with organizations that promote and educate children that are survivors of severe burns. As the South Florida Burn Children’s Camp regional coordinator, she assists in the organization of activities that promote Burn Camp, a volunteer service to assist children burn survivors.

**Chris Naff**

**Propane IQ Advanced**

Chris is a 17-year veteran of the fire service and has spent most of his time assigned to Special Operations and Hazmat. He’s currently riding on St. Johns County Fire Rescue’s Hazmat Engine Company 16 as a firefighter. Chris also travels around the country teaching Propane IQ with Federal Resources, a class that teaches first responder’s hands on propane emergency response tactics and strategies.

**Greg Noll**

**Hazardous Materials: Managing the Incident**

**Leadership, Engagement and Making a Difference**

Greg Noll serves as the Senior Planning Specialist – Special Projects for the South-Central PA Regional Task Force (SCTF), one of nine regional task forces established throughout Pennsylvania. Greg is also a principal with GGN Technical Resources, LLC, a consulting firm specializing in emergency planning, response and incident management issues. A retired member of the U.S. Air Force Reserve with over 29 years of service, Greg has served as a subject matter expert for various DoD hazardous materials and counter-terrorism response training programs. He serves as a Team Leader with the SCTF Type-3 Incident Management Team (IMT) and is a member of the PA Type-3 IMT. Greg has 49 years of experience in the fire service and emergency response community and is the co-author of nine textbooks on hazardous materials emergency response and management topics. In 2019 he was inducted into the National Fire Heritage Center – Hall of Legends, Legacies and Leaders for his significant lifetime contributions to the fire service / hazardous materials emergency response and training community. He is a member and immediate past-chair of the NFPA Technical Committee on Hazardous Materials / WMD Response Personnel (NFPA 472), is a member of the InterAgency Board (IAB) Training and Exercise SubGroup, and is a member of the IAFC Hazardous Materials Committee. Greg also serves as a member of the Editorial Advisory Board for both Fire Engineering magazine and the Fire Department Instructors Conference (FDIC).

**Miller B. Opolka**

**Hazard Assessment for Multi Hazard Scenarios**

Miller Opolka is the Technical Product Manager, Miller’s current focus is on product development, design improvement, and customized training courses specific to the needs of the end user. As a member of the Research and Development Board, Miller uses his experience working with fire/rescue, medical, and law enforcement personnel, to help Kappler create innovative products
that meet real world demands. Since 2013, Miller has partnered with Kappler’s Technical Director, Mr. Philip Mann, in providing on-site educational classes at various facilities and training centers across the country.

Keith Pomeroy
Dealing with CNG and LNG Transport Trailers Emergencies

Julio Leonidas Ramos
HM Wet Chemistry; Field ID of the Unknown
HM Detective, Putting it all Together; Research, Chemistry, and Monitoring
Everything Carbon Monoxide: From EMS to Fire to Hazmat

Julio Ramos has 10 years on the job with Orange County Fire Rescue Department, the last four years working on the Special Operations Team. He is currently assigned to Squad 4 covering the east side of Orange County. Julio is a State and ProBoard-Certified Instructor I, Fire Officer I, and has an Associate’s Degree in Fire Sciences. Julio is also the Medical Specialist for FLTF4. Julio is an adjunct instructor for OCFRD and Valencia College’s Training Academy, where he focuses on recruit orientation, special operations, and hazardous materials training.

Brian Ramsey
Physical and Chemical properties for a Risk Based Response

Brian Ramsey was born and raised in Northeast Tennessee, he has over 30 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 incident commander for a fortune 500 specialty chemical company. He is an adjunct instructor and SME for Tennessee Emergency Management hazardous materials programs, and guest instructor for various industrial hazmat and fire training programs in Texas and Louisiana. Mr. Ramsey holds certifications in firefighting, hazardous materials, rope rescue and codes inspections, additionally he is certified as a Tennessee Emergency Medical Technician, Hazardous Materials Specialist, and Emergency Response Transportation Specialist. Mr. Ramsey has been providing dynamic presentations of PHYSICAL and CHEMICAL PROPERTIES of HAZARDOUS MATERIALS to various emergency responders for over 20 years. His unique presentations allow for participants to understand how physical and chemical properties provide resolution for unique challenges that firefighters and other emergency responders may encounter during high risk incidents.

Derek Schaumann
HazMat Roundtable (there is more than one way)
The Devil is in the Details

Mr. Schaumann has been in the fire service for 17 years and currently serves as a Hazardous Materials Lieutenant with the City of Orlando Fire Department. He is a hazardous materials instructor and Program Manager for the Hazardous Materials Technician program at Valencia College. Mr. Schaumann has also worked for the Department of Homeland Security as an equipment/logistics specialist for a terrorism response team. He is also DEA
John “JW” Scott III

Why Buy the Cow When You Can Get the Milk for Free

John W. Scott III joined the Jacksonville Fire and Rescue Department in 1988, where he began as a firefighter assigned to Station 13. Over the years he also worked at Stations 31, 30, and 7 Hazmat Team. It was at this time he was introduced into the realm of Hazardous Materials Emergency Response and was assigned to research and resource. He transferred to the Fire Prevention Division earning promotions to Engineer, Lieutenant, and Captain. Scott attended Florida Community College at Jacksonville and Columbia College of Missouri, where he completed studies in Computer Science Information. He has completed numerous courses in fire science, fire code and building code & inspections and seminars as well as holding several certifications in hazardous materials response and regulation. He’s also currently assigned to the Urban Search and Rescue Team as a Plans Manager. Scott currently serves as the Hazardous Material and Environmental Coordinator for the department where his primary duties are to provide a framework and continuity by which Extremely Hazardous Site and Hazardous Material and Environmental events are properly mitigated and regulated. This aide in the pre-planning of emergency response for the department and other agencies such as Jacksonville Sheriff’s Office, City Regulatory, and other State agencies. The above is only a brief snapshot of the vast knowledge and background achieved by Captain Scott during his career.

Paul Seiferth

PreCon HazMat Tech Refresher

Lt. Paul Seiferth works for Seminole County Fire Department and has 13 years of Special Operations experience. He is a Florida Fire Instructor III has taught numerous special operations classes over his career. He has coordinated and presented hands-on training at the HM Symposium over the last three years. He designed this class with a focus of the Haz Mat Technicians safety and ability to self-rescue.

Mark Sicuso

HazMat Rapid Intervention Teams

Mark is a 16-year veteran of the Norwich Fire Department. He is a currently a Lieutenant and second in command of the Norwich Fire Hazmat Operations. He holds two Bachelor’s degrees from the University of New Haven in Fire Science Administration and Arson Investigation. Mark is a HazMat Specialist for MATF-1 a Fema US&R team. He is currently rostered as an alternate on the FEMA US&R IST as a Hazardous Materials Specialist. He is currently the Co-Chair of the Region 4 (Cerrit) Hazardous Materials response team. Mark is an Adjunct instructor at The Connecticut Fire Academy, the Massachusetts Fire Academy and the co-owner of All Hands Operating Training. Mark has instructed nationally at numerous conferences and holds numerous Fire Service Certifications/Qualifications.
**Keith Silverman, PhD,MPH**

**Responding to Emergencies in the Laboratory Transcaer:**
**Inside the Fenceline; Response to Emergencies at Chemical Facilities Unstable Materials; Oxidizers, Monomers, and Organic Peroxides**

Dr. Keith Silverman is Senior Vice President of Global Operations for a specialty chemical company. He is a NJ certified firefighter, fire inspector, and fire instructor as well as a former fire chief with 30 years of experience in municipal and industrial incident response and management. Throughout his career, he has focused on the hazards and risks posed by hazardous materials. This includes strategies and best practices for minimizing risk, responding to a broad range of emergencies involving hazardous materials (natural disasters, mechanical and process failures, transportation emergencies, technical rescues), and managing incidents around the world. He is a frequent presenter on topics such as safety, process safety, hazardous materials, and incident management. Keith is the Chairman of the TRANSCAER® Executive Committee and a member of the IAFC Hazardous Materials Committee.

**Todd Smith**

**Propane IQ Advanced HM IQ Above the Line/Below the Line**

Retired Fire Lieutenant from Jacksonville Fire and Rescue Department. 26 years of service with 22 years in Hazmat. I began teaching CPR and first aid early in my career and the moved into teaching at our local fire training academy in 1995. My years on the fire department were spent primarily as part of the hazmat team. I rose through the ranks with in the hazmat station and was assigned to the training division in 2003 where I was tasked with building our hazmat training program to match the State of Florida’s new state certification for Hazmat Techs.

In 2006 I was appointed to the IAFF’s Hazmat/WMD Instructor cadre. In 2008 I was hired by HazmatIQ LLC as an instructor. I have been proudly working for Federal Resources Inc since they bought HMIQ in 2013.

**Gregory Socks**

**Developing and Implementing the HM Group Operational Plan LNG Overview for the First Responder**

During a distinguished fire service career, Gregory Socks served as a Firefighter, Sergeant, Lieutenant, Captain, and Fire Chief. His staff assignments included Hazardous Materials Training Coordinator, Station Commander, Hazardous Materials Officer, Shift Commander, Chief of Operations and Assistant Team Coordinator for Hazardous Materials Operational Responsibilities. Socks began his fire service career in 1977 with the Montgomery County, MD Fire and Rescue Services in the National Capital Region of Suburban Maryland. He attained state certification as a Firefighter III, Fire Instructor III, Hazardous Materials Instructor, Fire Officer II, and Hazardous Materials Team Specialist. Greg also obtained NPQ certification as an Instructor III, Hazardous Materials Awareness, Operations, Technician, and Marine Firefighter I and II. He holds a degree in Fire Science Technology. In 1986, Socks was appointed as the first Team Coordinator of the Washington County, MD Hazardous Materials Response Team. He served as Team Coordinator
for over 10 years while building a nationally recognized organization. He was a lead hazardous materials instructor at MFRI, and Montgomery County, MD Fire and Rescue Academy. Greg has presented Hazardous Materials programs to municipal, industrial and military clients throughout the country. In 2012, Greg received the IAFC Hazardous Materials Response Teams Conference (“Level A” Instructor Award) and 2016 Hot Zone Conference (“In the Zone” Instructor Award). Greg has served on numerous State of Maryland committees and focus groups for new technology. Greg has also assisted with the development of Hazardous Materials training programs which has been used outside the State of Maryland. Greg has received numerous certificates, unit citations, and recognition letters from MCFRS, ATF, FBI, US Army, and Department of Defense. Greg is an accomplished educator with demonstrated ability to teach, motivate, and direct students while maintaining high interest and achievement.

**William "Billy" Stark**

**Firefighter Detoxification, Dehydration and Chemical Illness**

Billy Stark has served Largo Fire Rescue for 15 years as a paramedic/firefighter. He is a member of Pinellas County HazMat team. Billy is an Instructor for the county’s EMS academy, department mini academy and extrication (squad) classes. He assisted in the development of the County’s revised Hazmat medical SOPs. Billy enjoys short walks on the beach in the moonlight.

**Richard Stilp**

**Firefighter Detoxification, Dehydration and Chemical Illness**

**The New Medical HM Protocols/Now Available Nationwide**

Richard completed his fire service career in April of 2018 as the Fire Chief of St Cloud Fire Rescue in Central Florida. He began his career in the fire service in 1976 on Orlando Fire Department where he rose in rank to District Chief and served as a paramedic from 1978 until his retirement. Chief Stilp’s responsibilities included managing the Hazardous Materials and Dive Teams. Over a period of 10 years during his tenure on Orlando Fire Department he worked part time as an Emergency Department Registered Nurse at several hospitals in Orlando and Winter Haven, Florida.

After retirement from Orlando Fire Department, Richard became the Corporate Director for Safety and Security for Orlando Regional Healthcare, a group of seven hospitals, located in four counties, and employing more than 13,000 employees.

In 2005 Richard returned to the fire service when he became the Executive Director of the Central Florida Fire Academy (CFFA). The CFFA was one of the largest Fire Academies in the state offering a full complement of Florida US&R courses, Fire Officer, Fire Inspector, EMT, and Fire Standards training.

After retiring from the CFFA, Richard became the Regional Hazardous Materials Coordinator for UASI Region V. As the Regional Coordinator, he assisted 6 regional hazardous materials teams with equipment purchases and training.

As an author, Richard has co-authored a number of books including “Emergency Medical Response to Hazardous Materials Incidents”, “Terrorism Handbook for Operational Responders”, “The Hazardous Materials Field Guide”, and the “Citizens Guide to Terrorism Preparedness”. He has also authored a number of articles for professional fire and nursing publications. His most recent publishing venture is *HazMat Medicine: Treating the Chemically Exposed Patient*, Published through Wiley Publishers with a release in early 2021.
Richard holds an Associate in Arts, and Associates in Science in Nursing, a Bachelors of Arts in Business, and a Masters of Arts in Management. He holds a Fire Instructor III certification, and is a Master Exercise Practitioner (MEP) through FEMA. In 2017 Richard was presented with the John P. O’Gorman, “Making a Difference” award at the International Fire Chiefs HazMat Team Conference. He enjoys teaching through his consulting company; Emergency Management Systems, Inc. and instructing at National Conferences including the International Fire Chiefs’ HazMat Teams Conference in Baltimore, Hotzone in Houston, and the Florida HazMat Symposium where he serves as the Vice President of the Board of Directors and on the Executive Committee.

**Kenneth Treffinger**

**Thinking Fast: Rapid Hazard Analysis and Field Screening of Hazmats**

Ken Treffinger has over 25 years of experience in the area of public service and currently serves as a Lieutenant / Paramedic with the Sarasota County (FL) Fire Department. His experience includes serving as a member of the Special Operations Team and as a department Training and Safety Officer. Additionally, Ken has served as a member of the Special Operations Peer Driven Quality Improvement Committee and the Department Training Committee. He has a strong teaching background in the fields of hazardous materials, emergency medical services, and fire suppression. This experience includes well-developed skills in the areas of EMS instruction at both BLS and ALS levels, hazardous materials, and firefighting skills.

**Albert Valerioti**

**It’s All About Interpretation**

**Recognizing and Responding to Commercial Explosives Incidents**

Al Valerioti has been involved in the fire service and emergency response and planning since 1974, where he began as a fire fighter/paramedic with the North Massapequa (NY) V.F.D. In 1977 he was hired by the Waterbury (CT) F.D. and served as a Fire Fighter, Engineer (driver), Lieutenant, Captain and Director of Training (Deputy Chief) of the 330-person career department. Mr. Valerioti was responsible for all development and delivery of all training programs for the department and was a lead in the formation, training and deployment of the Waterbury F.D. Heavy Rescue/Hazmat team and was their Safety Officer until his retirement in 2006. He was also responsible for the purchase, maintenance, and deployment of the departments, monitoring and rescue equipment. Since 1992, he has served as a Master Instructor for the International Association of Fire Fighters Hazardous Materials/WMD program and has assisted in the development of the Hazmat Tech, Operational and Emergency Response to Terrorism programs. Mr. Valerioti is also an SME and instructor for The National Center for Biomedical Research and Training (LSU) where he instructs Public Safety Sampling, Readiness: Training Identification Preparedness Planning (RTIPPP) and as Lead Instructor for Computer Aided Management of Emergency Operations (CAMEO). He has served on the development team for the NCBRT CAMEO program and regularly consults with the development people of NOAA/EPA and serves as a “beta” and development version tester of pre-release versions of the program. He has been a NOAA/EPA certified user/instructor of CAMEO since 1987. He also assisted the Rural Domestic Preparedness Consortium (East Tennessee State University) in the review and development of their Awareness level WMD course. As the owner and primary consultant for AMV Associates, Inc., he develops and delivers HazMat training, and Emergency Plan and Site-Safety Plan course development and training for government and private entities, including the U.S. Navy bases at
Pearl Harbor, Hawaii and, Yokosuka, Atsugi and Sasebo in Japan as well as the world’s largest explosives company – Dyno Nobel.

**Mark Vedder**

**Cryogenics: The Cold Hard Facts**  
**Spill Response Strategies & Tactics**

Mark is a 44-year veteran of the fire service, recently retiring as Battalion Chief for Solon Fire-Rescue in Solon, OH. He currently serves as Assistant Fire Chief with the Chagrin Falls Fire Department, and has been the Hazmat Coordinator for the Chagrin/SE Hazmat Team in Cuyahoga County, Ohio for over 27 years. He serves on the county Hazmat Committee and chairs the Ohio Hazardous Materials Technical Advisory Committee. He has a Bachelor of Science degree in Fire Safety Engineering from the University of Cincinnati and is an Ohio Fire Service Instructor, Paramedic Instructor, Advanced Hazmat Life Support Instructor and a Hazmat/WMD Technician Instructor.

**James Villarreal**

**Incident Command & Emergency Response for natural Gas Transmission Pipelines**

James has been working for Williams, a company based out of Tulsa, Oklahoma for over 26 years. James spent his first 10 years with Williams in Las Vegas, Nevada on the Kern River Gas Transmission System before coming to Florida in 2002 to work on the Gulfstream Natural Gas System. After completing his Bachelor of Science in Computer Science from Colorado State University in 1994, James moved from the office into the pipeline operations field. After arriving in Florida, James developed an affinity for damage prevention and emergency response. James is currently an Operations Technician Lead and has been performing training for emergency responders, excavators, public officials and the general public for over 23 years.

**Mike Wallace**

**HM Safety Officer**  
**Effectively Leading and Managing HM Team**

Mike Wallace is a retired Deputy Fire Chief on both the Salem, New Hampshire Fire Department and the Concord, Massachusetts Department. He acquired over 30 years of emergency response experience and have been personally involved with leadership and management development hazardous materials training and program development since 1986. Mike has also been involved with terrorism, workplace violence, community and school violence training, planning, program development and training since 1993.

He is a national and international recognized trainer and educator on the topics of executive leadership, community risk reduction, cultural competence, hazardous materials and terrorism response. The programs developed by Mr. Wallace have been delivered in Canada, Island of Tobago and Australia. Mr. Wallace holds a Master’s Degree in Business Administration-Leadership, a Master’s Degree in Organizational Management, a Bachelor’s Degree in Fire Administration and Emergency Management and an Associate’s Degree in Fire Science. Mike also holds the following International certifications and designations: National Fire Academy Executive Fire Officer, The Commission of Professional Excellence Chief Fire Officer designation, Institute of Fire Engineers MiFireE designation.
**Emanuel Washington Jr**

**Research Boot Camp**

Emanuel Washington Jr. has served Orlando Fire Department for the last 11 years. He is a Lieutenant/Paramedic and is currently the department’s Training Lieutenant and the Lead Hazardous Materials Training Lieutenant. He is the recipient of the Paramedic of the Year for 2011. Emanuel is a State certified Fire Officer 1. He is a part of Central Florida’s Urban Search and Rescue Task Force as a Hazardous Material Manager. Emanuel holds a bachelor’s degree in Chemistry education with a minor in Emergency Management.

**Jason Waterfield**

**Developing and Implementing the HM Group Operational Plan**

**LNG Overview for the First Responder**

Chief Jason Waterfield was born and raised in Savannah, Georgia. He currently has 30 plus years in the fire service, both career & volunteer. Retiring in January 2015 from Island’s Fire & Rescue as the Chief for 15 years, Chief Waterfield currently is completing a second career with Savannah Fire & Emergency Services as a hazardous materials Captain assigned to the West Battalion. Chief Waterfield has NPQ awareness, operations, technician, Haz-Mat command, and hazardous materials instructor-II. Also, Chief Waterfield has taken advanced courses from Anniston Al, Dugway UT, Mercury Town NV. & New Mexico Tech specializing in weapons of mass destruction. Being retired from IFRD, he is working to complete a Bachelor degree in fire administration. He is also an alumnus from the National & State Fire Academies. In his spare time, Chief Waterfield works with the Chatham County Sheriff’s Office as a corporal in the training division. Chief Waterfield is over the training dealing with hazardous material awareness and scene operations for his personnel in the brown/blue.

**Carl Weeks**

**Propane Emergency Response**

Carl has over thirty-five years of experience in the propane industry beginning his career in Englewood Florida in August 1979. Carl has performed most tasks related to the industry including; management of operations, safety, cylinder and bulk delivery, tank and appliance installation, finance and marketing. Carl is the former owner of Horizon Gas which operated a 30 mile underground propane pipeline system in North Port Florida. In 1997 Carl sold the business to Heritage Propane and became their regional vice president until October 2008. In 2011 Carl founded Propane Training Services, a company that specializes in emergency response training for first responder and propane industry personnel. Since obtaining a grant request from the Florida Propane Gas Associations Education, Safety and Research Council in October 2011, Carl has trained over 5,500 Florida First Responders on how to handle and respond to propane related emergencies. Carl is an active member of the Florida Propane Gas Association, the Florida Fire Chiefs Association and the Florida State Fire Fighters Association.
**Roger Windham**  
*HazMat Breakout*

Roger has worked for Seminole County for greater than 15 years and currently serves on the Seminole County Special Hazards and Operations Team (SHOT). He is a Tech Level Instructor for Rope Rescue I and II, Vehicle Machinery Rescue (VMR) I and II, Confined Space Rescue I and II, Trench Rescue I and II, and Florida HazMat Technician 160-hour program. He holds a 4-year BSBA degree and is a Florida Fire Instructor III.

**Darrell Wiseman**  
*Back up Team Concepts*  
*Left of Boom!!*

Darrell B. Wiseman is a 30-year veteran Fire Captain with the Phoenix Fire Department and a member of their Special Operations Team as a Technician in both Hazardous Materials & Technical Rescue, along with being a Helicopter Rescue Crew Chief. He responds to all Special Operations incidents within the 2000 square miles of the Phoenix region. Darrell has been a member of the FEMA team, Arizona Task Force 1 (AZTF-1) since 1997 and has been deployed to Salt Lake City for the 2002 Olympics and New Orleans to assist after hurricane Katrina 2005. Darrell has been instrumental in the policy implementation of the HazMat Mayday Rescue Team procedures over the past 4 years. His current assignment is Special Operations Safety Officer and Hazardous Materials Continuing Education Manager.

**Dave Wolfe**

*MC 306, DOT 406 Gasoline Cargo Tank Emergency*  
*MC 307, DOT 307 Cargo Tank Emergency Response*

Dave is the General Manager and a founding partner of Safe Transportation Training Specialists (STTS); a Carmel, Indiana based company established in 1999 that specializes in cargo tank emergency response training, props, simulators, tools and other associated products. Dave oversees the day to day operations of STTS, curriculum development, instruction and product development. Formerly, he served with Chemical Leaman Tank Lines as a Division Safety Manager and Director of Training and Emergency Response from 1991 to 1999. During his tenure at Chemical Leaman, Dave was responsible for the development and training of the largest driver workforce in the cargo tank industry and an emergency response team consisting of 80+ personnel. As a veteran of the emergency response community Dave has responded to countless cargo tank incidents and became a benefactor in coordinating the corporate response to many others. As a active member of his community Dave has also served as a State Coordinator for Transcaer and spent significant amounts of his time training members of the fire service across the US and Canada. He has served as a Chairman and Vice Chairman of the Hamilton Co. LEPC and member of that county’s emergency response team. Additionally, he has served on the Indiana Emergency Response Commission’s Training Committee and is the former Treasurer of the Indiana Alliance of Hazardous Materials Responders. Among life goals Dave would like to achieve “World Peace” however, he is willing to settle for everyone returning from their last call safely!!
Doug Wolfe

Game On! The Florida HazMat Team Competition Overview and Insights

Thinking Fast: Rapid Hazard Analysis and Field Screening of HazMats

Douglas Wolfe has been instructing hazardous materials and special operations topics since 1989 when he developed the Hazardous Materials Technician program for the Sarasota County Technical Institute. In the early 1990’s Doug was appointed to the Florida State Emergency Response Commission (SERC) Training Task Force where he helped guide the development of the Florida hazmat response system and ultimately chaired the Task Force for six years until 2009. In 1996, He was invited to the National Fire Academy to aid in the development of the "Advanced Life Support Response to Hazardous Materials Incidents and has continued to instruct this national program for since it release. After this development he continued to serve the NFA by authoring or co-authoring numerous other programs including "EMS Management of Special Operations", "Emergency Response to Terrorism: Tactical Considerations", "Chemistry for Emergency Response" and several others. In addition to the National Fire Academy, Doug has developed and instructed several state training programs as well as programs for the FBI National Academy, NASA and other public and private sector organizations nationwide. As founder of Response Technologies, he continues to develop and deliver programs in both the traditional and online delivery formats.

John J. Wright III

MC 331 Tank Truck Special Problems and Solutions

Flammable Liquid Tank Truck Fire Attack

Chief Wright is a 37-year public safety/emergency response veteran having served with palm Beach County, Florida Fire/Rescue Department – One of Florida’s largest and busiest areas. Mr. Wright served as a Special Operation Chief overseeing hazmat, confined space, high angle, collapse, WMD, diver/water and trench rescue operations. He served both in the tactical and command operations areas and brings to the program proven response strategies and tactics. He also served as the Training Coordinator in the Hamilton County, Florida Emergency Management Division.

Nick Zamiska

HM for the One in the Hot Seat

Cryogenics: The Cold Hard Facts

Spill Response Strategies & Tactics

Nikola “Nick” Zamiska has been in the fire service for 19 years, currently serving as the Chief of Fire with the Brecksville Fire Department (OH). 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 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.

Nick is a lead instructor with Bad Day Training and enjoys delivering a wide-variety of customized fire and Hazmat training, including several Hazmat conferences and FDIC. Nick proudly delivers training to firefighters, law enforcement personnel and military personnel. He is also an alternate member of the National Fire Protection Association (NFPA) hazardous materials technical committee.
Bill Zielonka has been a firefighter with Orange County Fire Rescue Department for 15 years, ten of those assigned to the County’s North Side Squad, Squad 3. He is also an adjunct instructor for the local community college and is the Logistics Manager for Florida Task Force 4. William has implemented many of the hazardous materials/special operations operating procedures and recurrent training. He is also in charge of maintaining all of the monitors assigned to the department. William is a strong believer in knowing the ins and outs of one’s monitors, and understands the technologies behind each sensor to be able to make sound and informed tactical decisions.
## 2019 Thomas Yatabe Award Winners

<table>
<thead>
<tr>
<th>Thomas Yatabe – SERC Awards</th>
<th>District</th>
</tr>
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<tbody>
<tr>
<td>Ms. Nicole McDonald</td>
<td>Emerald Coast LEPC</td>
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<tr>
<td>Ms. Melissa Woehle</td>
<td>Apalachee LEPC</td>
</tr>
<tr>
<td>Mr. Dwayne Mundy</td>
<td>North Central FL LEPC</td>
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<tr>
<td>Chief Joel Sneed</td>
<td>Northeast FL LEPC</td>
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<tr>
<td>Teresa &amp; Lee Newsome</td>
<td>East Central FL LEPC</td>
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<tr>
<td>Mr. Mitch Smeikal</td>
<td>Central FL LEPC</td>
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<tr>
<td>Mr. Jeff Tobergte</td>
<td>Tampa Bay LEPC</td>
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<td>Mr. William Miller</td>
<td>Southwest FL LEPC</td>
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<tr>
<td>Ms. Norva Blandin</td>
<td>Treasure Coast LEPC</td>
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<tr>
<td>Lieutenant Maikel Garcia</td>
<td>South FL LEPC</td>
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**FLORIDA FIRST RESPONDER Apparel**
## Individual Best Awards

<table>
<thead>
<tr>
<th>Category</th>
<th>Winner</th>
<th>Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Modified Cornhole</td>
<td>Tyler Olive, Pinellas County HazMat Team</td>
<td></td>
</tr>
<tr>
<td>Risk Analysis</td>
<td>Shaun Michael – Orlando Fire Department</td>
<td></td>
</tr>
<tr>
<td>Leak Control</td>
<td>Robert Suarez – Miami Fire Rescue</td>
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## Team Awards

<table>
<thead>
<tr>
<th>Place</th>
<th>Team</th>
<th>Team Leader</th>
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<tbody>
<tr>
<td>First Place</td>
<td>City of Delray Beach Fire Rescue</td>
<td>Brian Fiorey</td>
</tr>
<tr>
<td>Second Place</td>
<td>Lake County Fire Rescue</td>
<td>Jason Graham</td>
</tr>
<tr>
<td>Third Place</td>
<td>City of Orlando Fire Department</td>
<td>Shaun Michael</td>
</tr>
</tbody>
</table>
THANK YOU TO OUR WONDERFUL 2020 SPONSORS!
In Loving Memory

DWAYNE MUNDY

North Central Local Emergency Planning Committee (NCLEPC) Coordinator
Public Safety and Regulatory Compliance Program Director
North Central Florida Regional Planning Council

- December 7, 2019

We pay tribute to the memory of a man who had made such outstanding contributions to the field of hazardous materials preparedness and response planning, emergency management, education and training. His leadership and wisdom left a significant impression on our organizations. We are honored by the work he accomplished and our work is so much better for his efforts. He was the best of us. We remember a friend, a mentor, and a class act whose legacy will be practiced everyday by those who carry on work in this field.