



**2021 Pennsylvania Association
Of Hazardous Materials Technicians
Annual Conference
August 26 – August 29, 2021
Seven Springs Mountain Resort**

Updated: 07/09/2021

Wednesday, August 25, 2021

5:00 PM – 7:00 PM

Pre-conference registration open

6:00 PM – 8:00 PM

Ice breaker: (Information at Registration)

Thursday, August 26, 2021

7:00 AM – 5:00 PM

Registration open

7:00 AM – 9:00 AM

Breakfast

8:30 AM

Colors presentation

National Anthem

8:35 AM

President's Welcome, Flag Salute and Prayer

Thomas Stutzman, President of PA Association of Hazardous Material Technicians

8:40 AM

Somerset County Commissioners Welcome

Somerset County President Commissioner, Gerald Walker

8:45 AM – 9:00 AM

Pennsylvania Emergency Management Director, David "Randy" R. Padfield, Director

Opening Comments

To register for the conference, go to:
www.PAHazMat.com



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9:00 AM – 10:00 AM

Opening Keynote Speaker: Allen Baldwin “Leading from the Front – Patton Style”

Allen Baldwin grew up in Wilkins Township, Allegheny County, Pennsylvania, where he started his fire service career with the Wilkins Twp. #1 Fire Company while in high school. Allen is currently serving as the Assistant Chief Operations, for the Stafford County, Virginia Fire and Rescue Department. Allen has over forty years of fire services experience and is still an active instructor in both the suppression and non-suppression areas.

Allen has served as both a career and volunteer officer in various positions. This has included as serving as the Fire Official for the Town of McCandless, Chief of the Chambersburg Fire Department, Volunteer Chief of the Gettysburg Fire Department, and the Chief of the Winchester Fire and Rescue Department. Allen also served as the Director of Operations and Incident Response for the Pennsylvania Turnpike Commission.

Allen holds a master’s degree in Organizational Leadership from Waldorf University, bachelor’s degree in Public Administration from Point Park University, along with an associate degree in Fire Science from the Community College of Allegheny County. Allen is also a graduate of the NFA Executive Fire Officer Program, Fire Officer IV, holds Chief Fire Officer, Chief EMS Officer, and Chief Training Officer designation from the Center for Public Safety Excellence. Allen is also an instructor for Missouri State University in their Fire Science Program.

10:00 AM – 10:30 AM

HEPACO Sponsored Break

10:30 AM to 12:00 PM

Annual PAHMT Members Business Meeting and Elections

12:00 PM to 1:00 PM

Lunch

1:00 PM – 3:00 PM

Round Table with PEMA & State Fire Commissioner

Moderator: Thomas Stutzman. Presenters: David “Randy” R. Padfield, Director PEMA, Bruce Trego, PA State Fire Commissioner, Gerald Bimle, Alternative Energy Program Manager, and Michael Manley

Open discussion.



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1:00 PM – 3:00 PM

Anhydrous Ammonia – Taming the Tiger: Top Ten Tips

Instructor: David Binder, Tanner Industries

Be ready and prepared to handle anhydrous ammonia incidents by attending this session which will review top ten response tips from size up and product characteristics thorough response tactics for ammonia. The session will be interactive with live release footage. All students will also receive an ammonia emergency response guide card customized for ammonia. The course will provide students ten key points to remember when dealing with an anhydrous ammonia incident, for both indoor and outdoor situations. Control and containment tactics. Do's and Don'ts with water application. Potential hazards to be considered. Entertaining format with team play utilizing the top ten tips, with live release pictures and footage. No PPE requirements.

1:00 PM – 5:00 PM

HazMat Incident Safety Officer (HISO)

Instructors: TBD/SFA

NOTE: This is a 3 Day Class – 1/2 Day Thursday, Full Days – Fri & Sat. You MUST Attend all Three Days if you select this course.

Pre-registration must be made by August 2, 2021, to receive pre-course work.

The HAZMAT Incident Safety Officer (HISO) course is focused on the incident and the role the Safety Officer plays as part of the Command Staff. The target audience is Company Officers (CO) who are experienced in HAZMAT safety issues and are familiar with an Incident Command System, hazardous materials management, and related emergency operations. The program provides the student with the decision-making process and skills required to recognize unsafe acts and conditions and take appropriate corrective actions. PRE-CONFERENCE work will be assigned to individuals who register for this program. Certification under NFPA 1521 and NFPA 1072 will finalize the course. All individuals registering must complete the pre-course work, full course attendance and the certification testing.

Prerequisites are NICS-FS or NICS-EMS, NFA-ICS or NIMS 200; and current annual training to the HAZMAT Operations level; and HAZMAT Operations Level Certification. Once registered students will be contacted with pre-conference information.



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1:00 PM – 5:00 PM

Drone Operations

Instructors: Tony Hallett, Unmanned Response

The course will have two-hours of classroom, and two-hours of hands-on demonstration and will discuss remote data collection utilizing drones.

Portions of this class will be held outside - Wear Appropriate Attire

1:00 PM – 5:00 PM

Incident Command Simulation Highway Incident through Scale Models

Instructors: Michael Krzeminski

Mike Krzeminski has created an entire town of models, with everything from a basic residence, a main street of commercial buildings, industrial facilities, transportation infrastructure, and of course the emergency vehicles that accompany an emergency response. This “city” gives responders the chance to read the incident in a compressed time and space. The processes of incident management in general and the 8-step process can be put to the test, practiced, and discussed as the highway accidents incidents play out on the tabletop. This is a highly interactive class, chairs will be available, but participants will be moving around and placing resources to respond, manage and mitigate the incident.

2:00 PM – 3:00 PM

Steel Drums 101 for Emergency Responders

Instructors: Chris Lind, former Director of Technology and Regulatory Affairs at Mauser USA LLC

The course will provide first responders helpful information to better comprehend the components of steel drums. From understanding the difference between an open-head and a tight-head steel drum to being able to interpret the UN marking, the course will dive into the vital safety standards first responders need to know.

2:30 PM – 3:30 PM

Break

3:30 PM – 5:00 PM

Colorimetric Detection Methods

Instructor: Jim Leer

This program will cover colorimetric detection methods of tubes (e.g., Draeger) and detection papers/kits of (F) fluoride, (KI) potassium iodine, litmus, pH, M8/M9, and M256A1. Topics



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covered: detection principles, interpreting, selection, application, response considerations, benefits, and limitations.

3:30 PM – 5:00 PM

Training Night and a Movie

Instructor: Allen Baldwin, Stafford County Fire and Rescue Department

The course will look at the use of movies and various video clips for providing Command and Leadership presence training as an evening or quick drill to help prepare us to have a better command and leadership presence on and off the fire ground.

3:30 PM – 5:00 PM

Case Study #1 with CSX

Instructor: Mike Austin, CSX

The course will look at a CSX case study.

7:00 PM – 9:00 PM

Drone Operations at Night

Instructor: Tony Hallett

Description: Live demonstrations of drone operations in night-time settings.

This class will be held outside - Wear Appropriate Attire

Friday, August 27, 2021

7:00 AM – 5:00 PM

Registration

7:00 AM to 9:00 AM

Breakfast

8:00 AM – 9:30 AM

Developing a Site Safety and Control Plan ICS form 208 HM

Instructor: Jim Leer

This program will cover the purpose, development, and implementation of a site safety and control plan. The program will consist of small group exercises applying ICS Form 208-HM to an incident. Students will be able to explain the purpose and value of a site safety and control plan; define and interpret components of the ICS Form 208-HM for the development of a plan and communicate and implement the plan into the incident objectives.



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8:00 AM – 9:30 AM

Tactical Monitoring

Instructors: Joe Bartholomew & Kevin Alajoki, Training Solutions LLC

This is a boots-on-the-ground approach to using your monitors and meters to their full potential. A holistic approach to monitoring will be discussed. You will learn how and what to take down range the next time you go into harm's way.

8:00 AM – 9:30 AM

Static Electricity – the GREMLIN on your hazmat response!

Instructor: Brian Ramsey

What is static electricity? Do I need to be concerned on hazmat incidents? Is static electricity eliminated or controlled? These are some of the questions that we will explore during this interactive presentation. During the lecture, participants will have the opportunity to generate static electricity and witness consequences of improper grounds and bonds. We will examine the minimum ignition energy of many common flammable liquid vapors, and flammable gases that responders may encounter on hazardous material emergencies. Finally, we examine common causes of actual fires and explosions involving flammable vapors and combustible dusts.

8:00 AM – 9:30 AM

Case Study #2 with CSX

Instructor: Mike Austin, CSX

The course will look at a CSX case study.

8:00 AM – 9:30 AM

Propane Response 101 to Advanced Tactics – an Overview

Instructor: Ron Huffman, Responder Training Enterprises, LLC

The shortened conference presentation is designed to provide the student with general information needed to respond to a propane leak involving a bulk transportation vehicle (rail, MC331 tanker or bobtail), bulk storage (250 gallon and larger), common residential and portable tanks. Using my 30+ years' experience working with and responding to propane issues, we will discuss tried and true response practices and emerging technologies and tactics. The course title, "Propane Response, 101 to Advanced Tactics" describes the path we will follow from beginning to end. What is propane, what are the hazards, preplanning, response, and mitigation tactics that include: doing nothing, vapor dispersion, product control, product transfer, flaring and water injection.



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8:00 AM – 11:00 AM

Understanding Air Monitoring Devices

Instructor: Frank Docimo, Docimo and Associates, LLC

Air monitoring devices have become essential tools for safe and effective response in many hazardous environments, but if the user does not have a basic understanding of how these devices operate, they may not be effective. Based on the METERS™ Program, this workshop will explain the technology at work in various metering devices on the market today so that hazmat responders can make informed decisions in choosing, maintaining, and using them in the hot zone. Mr. Docimo's discussions will include sensor technologies, tube devices, PID/FID, and IR Technologies. A sample matrix on what tools might be used for a chemical terrorist attack will also be discussed.

8:00 AM – 12:00 PM

Incident Command Simulation Railway Incident through Scale Models

Instructor: Michael Krzeminski

Mike Krzeminski has created an entire town of models, with everything from a basic residence, a main street of commercial buildings, industrial facilities, transportation infrastructure, and of course the emergency vehicles that accompany an emergency response. This "city" gives responders the chance to read the incident in a compressed time and space. The processes of incident management in general and the 8-step process can be put to the test, practiced, and discussed as the railway accident incidents play out on the tabletop. This is a highly interactive class, chairs will be available, but participants will be moving around and placing resources to respond, manage and mitigate the incident.

8:00 AM – 12:00 PM

The Tanker that Teaches

Instructor: Grammar Logistics

The Grammar "Safety Tanker" has traveled coast to coast, training operators, firefighters, law enforcement personnel, transportation safety authorities, shippers, and a variety of agribusiness in the proper use and methods to handle such a vessel in operation and emergency situations.

NOTE: Attendees do not need to attend both course offerings.

This class will be held outside - Wear Appropriate Attire



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HazMat Incident Safety Officer (HISO)

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10:00 AM – 11:00 AM

Break

10:00 AM – 12:00 PM

CBRNResponder: The Common Operating Picture Solution for CBRN Threats

Instructors: Christine Allston & Sean Duling, CBRNResponder Network at Chainbridge Technologies

CBRNResponder is a secure, web-based platform for CBRN incident data sharing and multi-hazard event management. CBRNResponder integrates with federal assets and incorporates national-level policy guidance, providing a one-stop shop for all CBRN planning, preparedness, and operational tools and resources. It is sponsored by FEMA and other federal partners and is provided as a free service to all state, local, tribal, and territorial emergency response organizations. There are currently over 10,500 users across 1,800 organizations.

The CBRNResponder session at the PA HazMat Conference will teach participants how the program works, how to utilize it within your organization, and the benefits of data sharing via CBRNResponder. In order to provide participants with the skills needed to feel comfortable using



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CBRNResponder in the field, we will have interactive activities where attendees can practice entering data via the CBRNResponder mobile application and showing their data via the website on the presentation screen.

10:00 AM – 12:00 PM

Intro to Drones

Instructor: Dave King, Steel City Drones

Introducing drones to public safety personnel.

Portions of this class will be held outside - Wear Appropriate Attire

10:30 AM – 12:00 PM

Lessons from the Mouse

Instructor: Allen Baldwin, Stafford County Fire and Rescue Department

A look at how Emergency Services can benefit from the lessons of Disney Customer Service Practices and apply them to our everyday work to help set organizations up for success.

10:30 AM – 12:00 PM

Railroad Tank Car Anatomy and Response Priorities

Instructor: Brian Ramsey

During this lecture, we will review the anatomy of rail cars including valves, PRD's, PRV's, and construction design. There will be emphasis on the importance of new DOT 117 and DOT 120 as they relate to flammable transports. Finally, we will be reviewing a case history involving DOT 105J and direct flame impingement. We will explore the value of insulation and prevention of heat radiation and thermal conduction involved with railcars and flame impingement.

10:30 AM – 12:00 PM

Case Studies on Field Identification of Controlled Substances

Instructor: Mark Norman, 908 Devices

With highly potent synthetic opioids, cannabinoids, cathinones, and psychoactive substances emerging on the illicit drug market, identifying controlled substances in the field is increasingly difficult. Even "traditional" controlled substances such as cocaine and heroin often contain dangerous amounts of designer synthetic drugs. Learn through a series of case studies how trace detection technology is being used to identify heavily cut or low concentration threats in street drugs outside the scope of other technologies. This helps establish probable cause in new and novel ways and minimizes exposure to responders in the field. A discussion on best practices for supporting Law Enforcement during HazMat operations will also be presented from a forensic science perspective.



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12:00 PM to 1:00 PM

Lunch – Sponsored by SPSI

1:00 PM to 7:00 PM

Vendor Area Open

2:00 PM to 5:00 PM

Vendor Demonstrations

5:00 PM to 7:00 PM

Sponsor Dinner

6:00 PM to 7:00 PM

Cash Bar

7:00 PM

Capital Area Communications and Motorola Sponsored Hospitality

Location: Field Stone Chalet

Saturday, August 28, 2021

7:00 AM – 5:00 PM

Registration

7:30 AM to 8:30 AM

Breakfast

8:30 AM – 11:30 AM

Railroad Emergencies – An All-Hazards Approach

Instructors: Joe Bartholomew & Kevin Alajoki, Training Solutions LLC

Railroad emergencies are very daunting, high risk/low frequency events. This course will walk you through an all-hazards response and give you the tools to respond to a train derailment.

8:30 AM – 11:30 AM

DAM. . .there is no APP for that

Instructor: Frank Docimo, Docimo and Associates, LLC

Thanks to smartphones and the apps made for them, emergency responders and the public they serve now have a wealth of help at their fingertips for almost any disaster scenario. They can look up the effects of toxic chemicals, brush up on first aid, find the nearest shelters or turn their phone



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into a flashlight. Apps filled with reference material and up-to-the-minute data can help them respond to an emergency. Thus, it is critically important for several reasons to not become overly dependent on apps and smartphones.

The goal is to get the right information in the right hands at the right time, in order to make decisions in minutes not hours. For this reason, you need to be able to think “out of the box and on your feet” and not to become overly dependent on apps and smartphones. This session will utilize science, monitoring devices, HAZMAPS, and street smarts with Frank’s ability to “Connect the Dot” during a chemical emergency.

8:30 AM – 12:30 PM

Ethanol Emergency Response Seminar

Instructors: TBD, Transcaer

This is a seminar on response to ethanol emergencies.

8:30 AM – 3:00 PM

Natural Gas Vehicles and Fueling Stations for First Responders

Instructors: TBD

This program introduces the different types of gaseous (CNG, LNG, LPG) fueled vehicles, fueling stations, and the fueling station safety systems. During the class, first responders will learn how to recognize CNG, LNG, and LPG, their properties, current gaseous fuel vehicles and natural gas vehicle components. The class also reviews how first responders should approach and assess a natural gas vehicle or fueling station incident, required personal protective equipment for responding to an incident, general firefighting measures, and extrications.

8:30 AM – ?

The Tanker that Teaches (second offering)

Instructor: Grammar Logistics

The Grammar “Safety Tanker” has traveled coast to coast, training operators, firefighters, law enforcement personnel, transportation safety authorities, shippers, and a variety of agribusiness in the proper use and methods to handle such a vessel in operation and emergency situations.

NOTE: Attendees do not need to attend both course offerings.

This class will be held outside - Wear Appropriate Attire

8:30 AM – 5:00 PM

HazMat Incident Safety Officer (HISO)

Instructors: TBD/SFA



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8:30 AM – 5:00 PM

Physical and Chemical Properties for Risk-based Response

Instructor: Brian Ramsey

Hazards, Risks, and Consequences during this 8-hour highly interactive class, participants will understand the significance in using physical and chemical properties to assess hazards encountered at hazardous materials incidents, apply physical and chemical properties to manage risk during hazardous materials incidents, and understand consequences of how things can go wrong on hazardous materials incidents. During this lecture 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 gasses as well as cryogenics. These high-energy, fast-paced demonstrations will leave the audience with a keen awareness of street-smart chemistry of hazardous materials and how to apply physical and chemical properties to Risk Based Emergency Response!

Portions of this class will be held outside - Wear Appropriate Attire

8:30 AM – 5:00 PM

Propane Response 101 to Advanced Tactics

Instructor: Ron Huffman, Responder Training Enterprises, LLC



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TOG required for those interested.

The course is designed to provide the student with the information needed to respond to liquid and vapor leaks involving bulk transportation vehicles (rail, MC331 tanker & bobtail), bulk storage (250 gallon and larger), portable tanks, common residential above and underground. The course title, “Propane Response, 101 to Advanced Tactics” describes the path we will follow from beginning to end. Using my 30+ years’ experience working with and responding to propane issues we will discuss tried and true response practices and emerging technologies and tactics. What is propane, what are the hazards, preplanning, response, and mitigation tactics that include: doing nothing, vapor dispersion, product control, product transfer, flaring and water injection. The second half of the course is all practical evolutions, bring your gear if you want to get dirty, come stand back and observe, both ways I bet you pick up something.

Portions of this class will be held outside - Wear Appropriate Attire

9:45 AM - 10:45 AM

Break

10:00 AM – 12:00 PM

Chlorine Kit (A-B-C)

Instructor: TBD, Transcaer –

The instructor will provide information on Chlorine Kits (A-B-C).

11:30 PM to 1:30 PM

Lunch

1:00 PM – 2:30 PM

Case Studies Roundtable

Instructors: Joe Bartholomew & Kevin Alajoki, Training Solutions LLC

The instructor will share a few case studies and lessons learned from the responses. The floor will then be opened to share your experience with the rest of the class. Bring your story to the class and share your lessons learned. Be prepared for an interactive classroom!

1:00 PM – 5:00 PM

Ethanol Train-the-Trainer

Instructors: TBD, Transcaer

This course is intended for all professional individuals above the technical level of training who are interested in learning how to teach ethanol emergency response.



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1:00 PM – 5:00 PM

Portable Pipelines for the First Responder PPFR

Instructors: TBD, SFA

This program is designed to help first responders at the awareness or operations level understand new energy technologies designed to bring low cost-effective fuels to end-user sites throughout the country. The class will identify components and purpose of a portable pipeline. Topics covered are the different types of highway cargo tanks (tube trailers) used to transport and store compressed natural gas (CNG) and the fill and end user facilities.

PREREQUISITE: None

2:00 PM – 3:30 PM

Break

3:30 PM – 5:00 PM

Mentorship

Instructor: Jamie Bero

Mentorship is often an overlooked or missing part of the volunteer first-responder experience. It is essential to facilitate effective training programs as well as provide a sense of purpose and feelings of belonging and ownership. A lot of resources (time, energy, money) are spent to recruit members, yet often few resources are devoted to the retention of these members.

It provides mentees: a transition to a new or unknown area/knowledge base, clarification of expectations and requirements, additional individualized training opportunities, resources, an increase in satisfaction, a feeling of belonging, a better trained/more competent team, a developmental opportunity as a mentee, and finding role-models.

It provides mentors: a more in-depth knowledge base, a more in-depth knowledge of expectations and requirements, individualized teaching opportunities, being a resource, an increase in satisfaction, a feeling of belonging, a better trained/more competent team, a developmental opportunity of the mentors as well as mentees, and being a role-model.

6:00 PM – 8:00 PM

Sponsored Dinner

8:00 PM

Capital Area Communications and Motorola Sponsored Hospitality

Location: Field Stone Chalet



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Sunday, August 29, 2021

8:00 AM -9:30 AM

Breakfast

9:00 AM – 11:00 AM

Closing Session – Comments

Closing Keynote Speaker: Robert Bemis “Forged in Scars and Stripes”

A guided discussion by PSP Sergeant (Ret.) Robert E. Bemis. On March 27, 2015, Sergeant Robert "Bob" Bemis, then a 22-year veteran of the Pennsylvania State Police, stopped along the side of an interstate highway to render assistance to a disabled motorist whose vehicle was on fire. A passing vehicle approaching the scene lost control and struck the rear of Bob's police vehicle, which was driven forward striking him. Bob received life-threatening and permanent injury.

After eight months of surgery, rehabilitation and physical therapy, Bob returned to his job as a supervisor and instructor at the State Police Academy. With a new direction and purpose, he served the citizens of Pennsylvania for an additional 14 months before concluding a 30-year law enforcement career in 2017.

Bob now continues to serve others by sharing the experience of his final 22 months as a Trooper. His lectures have an inspirational message of resilience that spans a wide spectrum of audiences, and his book, *Forged in Scars & Stripes: A Trooper's Victory Over Critical Injury* showcases the fraternal bond shared by all who are called to serve.

Sergeant Bemis tells the story of his journey from a disadvantaged youth to early and prestigious service in the U.S. Marine Corps, and on to an accomplished career with the Pennsylvania State Police that was abruptly altered by one act of service. The story provides an account of the circumstances leading up to the accident; the emergency response; the long recovery and living with a spinal injury; the initial agency, peer, and community support; and finally, the highs and lows of returning to his role as a Trooper.

*Bob's book, *Forged in Scars & Stripes* will be available for sale following the lecture, and Bob will be available to sign some copies.