

Ohio Hazmat Teams Conference

Workshops - Vendors - Demonstrations
Networking



November 3 & 4, 2023

Register at: www.OhioHazmatConference.com

Sponsored by Chagrin / Southeast Hazmat Response Team
with support from the Cuyahoga County LEPC

OHIO HAZ-MAT TEAMS CONFERENCE

22nd Annual Haz-Mat Technician/Specialist Refresher Training
Friday, November 03, 2023



Time	Room A	Room B	Room C
0800-0830	Registration, Coffee and Visit Exhibits		
0830-0845	Welcome and Opening Remarks: Mark Vedder		
0845-1000	KEYNOTE: East Palestine Train Derailment: Fire Chief Keith Drabick		
1000-1030	Break—Visit Exhibits		
1030-1200	Matrix of Detection: Putting All the Pieces Together Tobias Frost	DOT 407 Emergencies Rick Meehan	Anhydrous Ammonia: Product, Packaging, Process (Part 1) David Binder
1200-1245	Lunch - Provided in Exhibit Areas - Exhibit Areas Open		
1245-1415	Let's Run A Call Nick Zamiska / Milton Painter	Pyrophoric Materials Barry Lindley	Anhydrous Ammonia: Product, Packaging, Process (Part 2) David Binder
1415-1445	Break—Cookies and Exhibits		
1445-1630	Let's Run A Call (Part Deux) Nick Zamiska / Milton Painter	DOT 407 Emergencies Rick Meehan	The Wild Wild World of Synthetics! Tobias Frost
1630	Evaluations and Certificates		

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All schedules, speakers and topics are subject to change without notice.

OHIO HAZ-MAT TEAMS CONFERENCE

22nd Annual Haz-Mat Technician/Specialist Refresher Training
Saturday, November 04, 2023



Time	Room A	Room B	Room C
0800-0830	Registration, Coffee and Visit Exhibits		
0830-0845	Welcome and Opening Remarks: Mark Vedder		
0845-1000	KEYNOTE: The Evolution of Hazmat, How Did We Get Here? Tobias Frost		
1000-1030	Break—Visit Exhibits		
1030-1200	Tank Truck Fires: Put it Out, or Let it Burn? Rick Meehan	Compressed Gas Cylinders And Liquefied Gases Barry Lindley	Matrix of Detection: Putting All the Pieces Together Tobias Frost
1200-1245	Lunch - Provided in Exhibit Areas - Exhibit Areas Open		
1245-1415	Tank Truck Fires: Put it Out, or Let it Burn? Rick Meehan	Lithium Ion Battery Basics For Hazmat Technicians Mark Vedder	Ohio National Guard 52nd WMD Civil Support Team LTC Katie Enochs, USAR
1415-1445	Break —Cookies & Exhibits		
1445-1630	Rail Cars 101: Off the Rails! Tom Bartfai	Hazmat Mayday: Are You Ready Mark Vedder/Steve Groves	Hazmat Officer Development Jay Womack
1630	Evaluations and Certificates		

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Workshop Descriptions

KEYNOTE FRIDAY: East Palestine Train Derailment – Fire Chief Keith Drabick

Chief Drabick will discuss the first hours of the response, the sudden national interest and the long-term effects of the derailment. He will also discuss the lessons learned from the experience and how those lessons should inspire us to prepare for the next major event that could happen in your community.

Matrix of Detection: Putting All the Pieces Together – Tobias Frost

Technology! Today we have an entire suite of detection and identification tools from papers to GC/MS, and everything in between. But, how do we put them all together in the field to get our answers? In this presentation we will work our way through the matrix of tools available, leveraging their strengths and weaknesses to come to a solution. There is no perfect tool with all of the answers, but using what we have we can get there.



DOT 407 Emergencies – Rick Meehan

This class reviews the design and construction of the workhorse of the chemical industry, the DOT 407 tank truck. When these overturn on the highway, whether it's full of crude or toluene, you have a problem. This class will review some incidents and look at what worked well and what land mines to avoid, BEFORE they roll over in your community.

Anhydrous Ammonia: Product, Packaging and Process – Part 1 - Dave Binder

Anhydrous ammonia is one of the most common chemicals used in our communities. From fertilizer to industrial refrigeration, every hazmat team has potential to have an ammonia incident. In Part 1 we will explain the chemical and physical properties of ammonia, how it's used and how it's stored and transported. Students will be provided with an emergency response guide card specifically generated for anhydrous ammonia. The guide card provides valuable quick reference information for ammonia incidents from size up through response tactics.



Let's Run a Call – Part 1 - Milton Painter and Nick Zamiska

This fast-paced, student participation class will focus on the research necessary to run a hazmat call. Using a systematic approach and a basic understanding of chemical and physical properties, those attending will be able to determine: the hazards of the chemical, detection and monitoring equipment required, the selection of PPE and decontamination needs for responses to hazmat events.



Lithium-Ion Battery Basics for Hazmat Technicians – Mark Vedder

This is a practical approach to dealing with Lithium-Ion battery emergencies. We will cover the basic construction and function of lithium-ion batteries, what happens to cause them to fail, thermal runaway and risk-based response options. We will cover response strategies for mobile devices, electric vehicles, and battery emergency storage systems.

Anhydrous Ammonia: Product, Packaging and Process – Part 2 - Dave Binder

In Part 2, we will explain the transportation containers and fixed site systems for storage and use of anhydrous ammonia. We will look at past incidents to review lessons learned as we continue to follow the emergency response guide card to appropriately select a risk-based response for several different types of anhydrous ammonia emergencies.

Let's Run a Call – Part 2 - Milton Painter and Nick Zamiska

The fun continues as this systematic approach is applied to more chemicals. Students develop confidence as they gain more experience thru reps in chemical size-up utilizing basic research references. Learn the secrets of rapid assessment based upon a systematic review of the chemical and physical properties that leads to a risk based response plan.

The Wild, Wild World of Synthetics– Tobias Frost

The threat is ever changing, the challenges evolving, are you ready? Fentanyl, spice, bath salts and even marijuana grows and BHO labs, what are we getting into now? What old is new again as bath salts and club drugs are on the rise, and it can be seen coming across the borders. Going beyond the hysteria, what are the real hazards of these mixtures? In this presentation we will look at the history, components and chemistry, as well as current trends in these operations.

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We will examine the alphabet soup of chemicals and explain what they are. How can we identify these chemicals? Why are these operations so hard to stop? What are our operational, PPE and decontamination consideration? And what is next? The world of synthetic is here to stay, are you prepared?

KEYNOTE SATURDAY: The Evolution of Hazmat, How Did We Get Here? – Tobias Frost

How did hazardous materials response get to where it is today? A look back in history at some of the key events that help to drive the evolution that became hazardous materials response. Texas City, Texas; Kingman, Arizona; Crescent City, IL; Shreveport, Louisiana, these are just a few of the events that helped to drive the change that would lead to hazardous materials response. Join us as we follow the road through history stopping along the way to look at the key events that were the catalyst for change. Lessons learned that should not be forgotten. The why behind our tactics, tools and legislation.



Tank Truck Fire: Put It Out or Let It Burn? – Rick Meehan

When a gasoline tanker lights off, the devil on one shoulder says to let it burn and get good video. The voice from the other shoulder says to put it out and protect the interstate. This class reviews gasoline tanker construction and the fundamentals of extinguishment. The political issues of these fires can be stressful. Hopefully, this course helps you navigate the political and economic questions that must be answered before you pull the yellow brake button on the first due pumper.

Compressed Gas Cylinders and Liquefied Gases — Barry Lindley

Compressed gas containers can take many forms from high pressure cylinders thru rail cars, tank trucks, portable cylinders low pressure tanks. This class will review construction, design, and use with an instructor who has handled hundreds of these incidents. Learn about risk-based response through review of numerous actual incidents, as well as the unique chemical and physical properties of gases.



Matrix of Detection: Putting All the Pieces Together – Tobias Frost

Technology! Today we have an entire suite of detection and identification tools from papers to GC/MS, and everything in between. But, how do we put them all together in the field to get our answers? In this presentation we will work our way through the matrix of tools available, leveraging their strengths and weaknesses to come to a solution. There is no perfect tool with all of the answers, but using what we have we can get there.



Pyrophoric Materials: Risk Based Response - Barry Lindley

Pyrophoric materials are air reactive chemicals which energetically ignite in the presence of oxygen. This class covers the chemical and physical properties, typical containers, and case histories with examples of successful and not so successful emergency response to these reactive chemicals. Come learn about these exciting chemicals.

Ohio National Guard 52nd WMD Civil Support Team —LTC Katie Enochs, USAR

Members of the CST will explain how the 52nd Civil Support Team deploys in support of civil authorities at a domestic Chemical, Biological, Radiological, Nuclear, and High-Yield Explosive (CBRNE) or natural disaster incident site by identifying CBRNE agents/substances, assessing current and projected consequences, advising on response measures, and assisting with appropriate requests for state and federal support.

Hazmat Officer Development— Jay Womack

This class reviews the variety ways a hazmat technician can prepare for the role as a new Hazmat Officer. It includes understanding the role and responsibilities of the new Hazmat Officer, such as team development, operational responsibilities, and continuing development over your career. Attendees will learn how to add value to their Hazmat Team through development of him/herself and your team members. We will also discuss have a succession plan for team leaders.

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Rail Cars 101: Off the Rails — Thomas Bartfai

Responders need to understand rail car construction and design in order to safely evaluate the potential course and harm posed by an incident. This workshop will cover how to identify and evaluate rail cars to aid in critical decision making.

Hazmat Mayday: Are You Ready? —Mark Vedder & Steve Groves

This workshop will discuss the concept and purpose of backup teams, what is the “right” number of personnel on your entry team and backup team, preparing for mayday on every run, avoiding mayday situations, Level A suit emergencies, emergency decon and much more. We will share best practices and actual mayday emergencies encountered at incidents.

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Instructor Bios

Keith Drabick

Keith A. Drabick, Fire Chief for the Village of East Palestine Ohio with over 37 years' experience in the Emergency Services field. He previously served as a career firefighter/paramedic with Horry County Fire Rescue (HCFR) in South Carolina, where he progressed through the ranks to the position of Captain assigned to Heavy Rescue 2. East Palestine is a small community of approximately 4700 residents and covers approximately 37 square miles and approximately 9000 residents between the village and other contracted coverage areas, providing both fire and EMS coverage, averaging approximately 1500 calls per year. The East Palestine Fire Department is a combination department, primarily volunteer paid per call, with 37 members and two stations. Keith holds an Associate's Degree in Emergency Medical Technology, a Bachelor's Degree in Fire Science and Administration, and a Master's Degree in Public Administration with an emphasis on Emergency Management.

Tobias Frost

Battalion Chief Toby Frost is a member of the Lafayette Fire Department in Indiana. He is a Team Leader for their HazMat Team and is the founder of their Illicit Lab Response Team. He is a department instructor for fire fighters, recruits, and local industry teaching fire science, technical rescue, and hazardous materials. He has presented across the country at hazmat conferences including the IAFC International Hazardous Materials Conference, The Hot Zone, and at the Fire Department Instructors Conference (FDIC). As a contract instructor Toby has helped train federal, state and local responders across the country and internationally. Toby serves as a HazMat Specialist for FEMA -INTF-1. Toby is a principal member of the NFPA Hazardous Materials Committee. He is a current Board Member for the Indiana Alliance of Hazardous Materials Responders. BC Frost is a graduate of Eastern Kentucky University with a BS in Fire Science Engineering Technology and of the NFA Executive Fire Officer Program. In 2018, Toby was recognized by the IAFC Hazardous Materials Committee with their "Level A" Award and in 2019, by the Hot Zone Conference with the "In the Zone Award".

Richard Meehan

Rick is a Lieutenant with the Harris County, TX Hazmat team, serving since 2005. Over those years, he has served in all sort of roles and broke lots of expensive stuff. Currently, he is the shift commander over the A and B shift and struggling with working 5-days a week. Rick is a hazmat nerd living on his recently purchased farm in rural Batson, Texas where many of his neighbors call him a "city boy".

David Binder

David Binder is the Director of Quality, Safety & Regulatory Affairs, and the Training Director of the Ammonia Safety & Emergency Response Training (ASERTSM) program with Tanner Industries, Inc. in Southampton, PA. David facilitates safety and emergency response training programs throughout the world for industry, fire department, emergency response and emergency management personnel. He also speaks and presents at numerous Federal, State and Industry Association conferences. He is very involved and in leadership positions with various industry associations and has served on various standards committees. David serves on the National TRANSCAER Task Group and chaired the curriculum committee that put together the Anhydrous Ammonia training program.

Milton Painter

Milton is a retired Captain from Fairfax County Fire-Rescue (VA) where he served for 30 years, as well as a founding member of the Hazmat Team since its inception in 1983. He also served with the USAR team and has now been teaching hazmat for more than 35 years. He has taught for the Virginia Dept of Fire Programs, Virginia Dept of Emergency Services, IAFF Hazmat Training Dept, Hazmat IQ, Federal Resources, Noble and Bad Day Training.

Nick Zamiska

Fire Chief of the Brecksville (OH) Fire Department. Nick is the former Director of the Southwest Emergency Response (SERT) Hazmat Team and currently a Deputy 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 emergency response training. He has spoken at several conferences, including the Ohio Fire Chief's conference, FLA Hazmat Conference, PA Hazmat Conference, NW OH Hazmat Conference, and FDIC. Nick is a fire instructor and Hazmat / WMD technician instructor in the State of Ohio. He is also an alternate member of the NFPA Technical Committee on Hazardous Materials / WMD Response (NFPA 470).

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Instructor Bios

Barry Lindley

Senior chemist with Emergency Response Solutions, SPSI, and MMR. He is a NBFSPQ Level I and II fire instructor, HAZMAT Technician, Branch Officer, and Branch Safety Officer. He was formerly with DuPont and Chemours for 37 years. He was / is a team leader, safety officer, chemist, and instructor. Barry is the Chairperson for IFSTA's Hazardous Materials Publications Committee for Awareness, Operations and Technician. He is also a member of the National Fire Protection Association (NFPA) 470 technical committee. Barry has co-authored five books on Forensic Investigator Safety and Street-Smart Chemistry.

Katie Enochs

Katie is an Lieutenant Colonel with the US Army Reserve, serving as Commander of the Ohio National Guard 52nd Weapons of Mass Destruction Civil Support Team (CST).

Tom Bartfai

Hazardous Materials Specialist for the Public Utilities Commission of Ohio since October of 1994. Conducts roadside inspections on commercial motor vehicles transporting hazardous materials. Performs safety audits on trucking companies and shipper audits on hazardous material manufacturers and hazardous waste generators. FRA certified since August 2015 to conduct rail hazardous material inspections.

Jay Womack

Jay Womack is a Platoon Chief for the Euclid Fire Department and a Deputy Director for the Chagrin Southeast Regional Hazmat Team. Jay is also a member of the Cuyahoga County Type 1 Hazmat/WMD Team. An instructor since 2006, Jay was previously the fire departments training captain. Jay instructs FEMA NIMS 300/400 courses for the Ohio EMA and is a Hazmat and NIMS Instructor for Bad Day Training and Consulting.

Steve Groves

Steve is a 40+ year veteran of the fire service, recently retiring from the Stow (OH) Fire Department. He has also served with Tallmadge FD, Valley Fire District and was the Director of the Summit County Hazmat Team for many years. He has an AAS Fire Protection, a BS in Chemistry, and a Master's in Public Administration, all from the University of Akron. Steve is a Hazardous Materials Instructor for the National Fire Academy, Ohio Fire Academy, University of Akron, Cleveland State University and for Bad Day Training & Consulting

Mark Vedder

Mark is a 40+ year veteran of the fire service, currently Fire Chief for Solon Fire-Rescue in Solon, Ohio, and part-time Assistant Fire Chief with the Chagrin Falls Department, and has been Hazmat Coordinator for the Chagrin/SE Hazmat Team in Cuyahoga County, Ohio for over 32 years. He serves on the Cuyahoga County LEPC 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 Hazmat/WMD Technician Instructor. He has presented at the IAFC Hazmat Conference, the OH Hazmat Conference, the NYS Hazmat Conference, Boston Fire Academy and the FLA Hazmat Conference.