

Ohio Hazmat Teams Conference

Workshops - Vendors - Demonstrations
Networking



November 1 & 2, 2024

Register at: www.OhioHazmatConference.com

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

OHIO HAZ-MAT TEAMS CONFERENCE

23rd Annual Haz-Mat Technician/Specialist Refresher Training

Friday, November 01, 2024



Time	Room A	Room B	Room C
0800-0830	Registration, Coffee and Visit Exhibits		
0830-0845 0845-1000	Welcome and Opening Remarks: Mark Vedder KEYNOTE: Environmental Response to the East Palestine Derailment Kurt Kollar, Ohio EPA		
1000-1030	Break—Visit Exhibits		
1030-1200	Response to Fixed Site Emergencies Barry Lindley	Case Study: Styrene Polymerization Railcar Incident Doug Witsken / Don Bennett	Liquefied Carbon Dioxide Tank Truck Operations Peter Wray
1200-1245	Lunch - Provided in Exhibit Areas - Exhibit Areas Open		
1245-1415	Let's Run A Call: Chemical/Physical Properties in Risk Based Response Milton Painter	Highway Cargo Tank Emergencies: Part 1 Rick Meehan	Confirming FTIR / RAMAN Results (Repeat) Rick Dufek / Brandon Gayle
1415-1445	Break—Cookies and Exhibits		
1445-1630	Let's Run A Call: Part Deux Chemical/Physical Properties in Risk Based Response Milton Painter	Highway Cargo Tank Emergencies: Part 2 Rick Meehan	Case Study: Fuel Tank Truck Fire, Macedonia, OH Dennis Basch / Steve Groves
1630	Evaluations and Certificates		

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

OHIO HAZ-MAT TEAMS CONFERENCE

23rd Annual Haz-Mat Technician/Specialist Refresher Training

Saturday, November 02, 2024



Time	Room A	Room B	Room C
0800-0830	Registration, Coffee and Visit Exhibits		
0830-0845 0845-1000	Welcome and Opening Remarks: Mark Vedder KEYNOTE: DOT 406 Tank Truck Fires—Put It Out or Let It Burn Rick Meehan		
1000-1030	Break—Visit Exhibits		
1030-1200	Using Colormetrics in Hazmat Response Rick Dufek	Approaching a Train Derailment Emergency Response Barry Lindley	DOT 407 Emergencies Rick Meehan
1200-1245	Lunch - Provided in Exhibit Areas - Exhibit Areas Open		
1245-1415	Using Colormetrics in Hazmat Response (repeat) Rick Dufek	Expanding Your Gas Detection Toolbox: FTIR / HPMS Brandon Gayle	Propane Response 101 to Advanced Tactics Ron Huffman
1415-1445	Break — Cookies & Exhibits		
1445-1630	Case Study: Tank Truck Explosion—Royal Chemical Dennis Basch / Steve Groves	Expanding Your Gas Detection Toolbox: FTIR / HPMS (repeat) Brandon Gayle	Propane Response 101 to Advanced Tactics (repeat) Ron Huffman
1630	Evaluations and Certificates		

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Workshop Descriptions

KEYNOTE FRIDAY:

Environmental Response to the East Palestine Derailment

Kurt Kollar, Ohio EPA

Kurt will review the environmental challenges created by the derailment and the efforts of the Ohio EPA, other regulatory agencies, local responders and cleanup contractors to mitigate those challenges. He will also discuss the lessons learned and how they may impact future responses.

Response to Fixed Site Emergencies – Barry Lindley

In this workshop, we will discuss “what are the questions you should ask” if you are the responding hazmat team to a fixed site in your jurisdiction. Preplanning, response considerations, and risk-based response.



Case Study: Styrene Rail Incident – Hamilton County, OH – Doug Witsken and Don Bennett

This workshop will review the Sept 24, 2024 incident when a styrene rail car started venting and required public protective actions. Doug and Don will describe the incident, the challenges to mitigate the incident, and lessons learned.

Liquefied Carbon Dioxide Safety and Delivery Operations – Peter Wray

This workshop will discuss the increased use of liquefied carbon dioxide in restaurants and commercial businesses. In this workshop we'll discuss CO₂; its sources, its uses and the effects on the body. We will also review safety procedures for customers, first responders and delivery operations.

Confirming FTIR/RAMAN Results – Rick Dufek and Brandon Gayle

Many teams have been utilizing FTIR and Raman Spectrometers for years. How do we confirm the results? We are taught that a high search score and a good overlay of the spectrum is a good start, but what if we do not obtain those results? This session will look a little more in depth at confirming the results of FTIR and Raman. Since we should confirm the chemical physical properties of materials using three sources, should we not confirm our results with three or more technologies? Always striving for three “proofs” for confirmation is best practice with any sample, but this will also help when there is an unclear result. We will discuss chemical families that FTIR and or Raman cannot identify and how using the rule of three proofs will assist in properly classifying them and their hazards.

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

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.

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.

Highway Cargo Tank Emergencies – Rick Meehan

Leaks, spills and fires. Highway tank trucks can have all kinds of emergencies. This workshop will review the different types of tank trucks, common products hauled and will utilize case studies to illustrate a practical approach to dealing with real world emergencies.

Case Study: Fuel Tank Truck Fire – Macedonia, OH – Dennis Basch and Steve Groves

This workshop will utilize video, photos and personal accounts to review the hazmat team response to the fuel tank truck accident and fire which occurred in Macedonia, OH last year. Members of the Summit County Hazmat Team will describe the incident and lessons learned.

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Workshop Descriptions

KEYNOTE SATURDAY:

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.



Using Colormetric Papers in Hazmat Response – Rick Dufek

Colormetric indicators are used by all hazmat teams. Most do not understand the proper use limitation and interpretation of the results. Many of the technician level textbook have little information on the use of colormetrics. Since these should be part of any initial entry to a hazmat incident all technicians need a complete understanding of them. I will start with a short presentation of the technology, use, and limitations of each type of colormetrics used, followed by the students do hands-on exercises to demonstrate the proper use and interpretation of the results, or lack of results. Each exercise will be followed with a discussion on the next steps in the monitoring/identification process.

DOT 407 Tank Truck Emergencies – Rick Meehan

This workshop will focus specifically on the DOT 407 tank truck. The DOT 407 is everywhere and hauling almost everything. Let's look at some incidents where these tanks were stressed. We will review common products hauled and will utilize case studies to illustrate a practical approach to dealing with real world emergencies.

Approaching a Train Derailment – Barry Lindley

Train Derailment, Now What? This workshop will focus on how you should approach a derailment scene, starting with preplanning to initial assessment of the incident. We will discuss the products, the containers and what is impacted. Will include case histories with examples of successful and not so successful emergency response.

Expanding Your Gas Detection Toolbox: FTIR / HPMS – Brandon Gayle

In this session, we will discuss our existing gas toolbox filled with Electrochemical Sensors, CGIs, PIDs, Metal Oxide sensors, and indicating papers and all the strengths and limitations of our current technologies. But through this discussion, we will see that there are very large gaps in gas detection technology that could potentially pose a safety risk. We will discuss the addition of newly developed technologies in our industry that effectively fill those gaps using Fourier Transform Infrared and High-Pressure Mass Spec. With the addition of these tools to our gas toolbox, we can identify gases, vapors, and aerosols in real-time in a downrange posture...something we have never had the ability to do before.

Case Study: Tank Truck Explosion – Royal Chemical – Dennis Basch and Steve Groves

This workshop will utilize video, photos and personal accounts to reviews the hazmat team response to the tank truck explosion which occurred at Royal Chemical in Macedonia, OH last year. Members of the Summit County Hazmat Team will describe the incident and lessons learned.

Propane Response 101 to Advanced Tactics an Overview – Ron Huffman

Provides 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. We'll 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. Students will learn about the limitations caused by system restrictions that limit flow, the importance of managing product levels and how temperature and pressure information is applied. We will discuss how flaring Liquid vs Vapor is used as a product management option. Students will be shown how, when they could and when it's not recommended to use water injection.

2024 Ohio Hazmat Teams Conference Instructor Bios

Kurt Kollar

Kurt has worked for the Ohio EPA for over 32 years with 26 years as an On-Scene Coordinator in the Office of Emergency Response (OER). He had prior experience working for environmental remediation and consulting firms, including as a project manager for the cleanup of radioactive contaminated sites associated with WW II nuclear weapons development. Kurt has a Bachelor of Science degree in Environmental Science from California University of Pennsylvania. He is a member of the Ohio EPA's Strike Team for responding to state-wide environmental emergencies. As an On-Scene Coordinator, he investigates and coordinates the cleanup of hazardous materials released into the environment. He has managed the cleanup of spills ranging from home heating oil tanks, pipelines, train derailments and chemical facilities. Kurt was the first responder for the Ohio EPA to the East Palestine train derailment and maintained a lead role throughout the emergency response phase.

Rick Dufek

Richard Dufek worked for the City of Carmel Indiana for 33 ½ years, retiring as a Battalion Chief/Hazmat Team Coordinator. Currently an adjunct instructor for the National Fire Academy, teaching the Hazardous Materials Operating Site Practices and the Chemistry of Hazardous Materials. He authored the Basic Chemistry for Emergency Responders class and works as a contract instructor training hazmat personnel on their Emergency Response equipment.

Richard Meehan

Rick is a Lieutenant with the Harris County, TX Hazmat team, serving since 2005. Over those years, he has served in all sorts 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".

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

Nick recently retired as the Fire Chief of the Brecksville (OH) Fire Department. Nick is the former Director of the Southwest Emergency Response (SERT) Hazmat 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).

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 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.

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

2024 Ohio Hazmat Teams Conference Instructor Bios

Brandon Gayle

Lt. Brandon Gayle began his fire service career in 1997 with the City of Raleigh Fire Department and has served as a HazMat Specialist for the department since 1999. He became a certified Fire Service Instructor for the North Carolina Office of the State Fire Marshal in the field of Hazardous Materials Response in 2006 and has been training emergency responders ever since. He is also the President of Gayle Training Solutions, LLC which provides training and consulting services for several instrument manufacturers and distributors. Mr. Gayle has had the privilege of training Fire, EMS, LE, EOD and HazMat responders as well as Soldiers, Sailors, Airmen and Marines, both nationally and internationally, in most disciplines of hazardous materials and CBRNE response with a focus on detection and identification technologies. His specialty is teaching how to integrate data from modern technologies and apply it to risk assessment, making for safer and faster incident mitigation.

Peter Wray

Peter works in Compliance and Regulatory at NuCO2, a leading beverage gas service provider to the hospitality industry. He brings 32 years experience as a commercial truck driver with his focus on safety. In addition to 9 years serving as a driver, installer and depot manager at NuCo2, he also spent 18 years as a volunteer firefighter (FF-II, EMT-B, Hazmat Ops) where he is based in Colorado. .

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 34 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.

Ron Huffman

Ron is a 30+ veteran of the fire service in both career and volunteer departments, retiring as a Battalion Chief from New Castle FD (IN). He has also served as the Henry Co EMA Director and Chairman of the LEPC. He worked for 14 years in the propane industry specializing in bulk plant, bulk truck and transport repair and rebuilds. In 1989, he founded Responder Training, Inc. and has since traveled the US teaching Emergency Response to Propane Incidents, Flaring Operations, Emergency Water Injection and Tank/Cylinder Leak Management at conferences and for fire departments and hazmat teams. He also manufactures specialty response propane kits.

Don Bennett

Chief Bennett retired two years ago after serving 52 years in the Fire Service; the last 38 years as Fire Chief for the City of Fairfield, Ohio. During his tenure as Fire Chief he initiated the transition of the department to a fully career department in 2022 while jointly serving as the Fire Chief and Acting City Manager the last thirteen months of his career. His involvement with the Greater Cincinnati Hazardous Materials Unit began in 1990 and in 1991 became one of two Duty Officers supporting the full time Director. During his involvement, he has served as the interim director on numerous occasions and currently serves as President of the Board of Directors for the past 19 years.

Doug Witsken

Doug is the LEPC Coordinator for the Hamilton County Emergency Management Agency (EMA), a role which he has served in for the past 7 years. The LEPC is responsible for hazardous materials awareness and planning in Hamilton County, and also supports the county's fire departments and HazMat teams with information and training. Prior to the EMA position, Doug had a 36-year fire service career in Green Township, a large west-side suburb of the City of Cincinnati. He served as the department's Fire Chief for the last 12½ years of his career with Green Township Fire & EMS.

Dennis Basch

Dennis is a full-time Firefighter with the City of Macedonia, OH and serves as the Hazmat Coordinator. He has been with the Summit County (OH) Hazmat Team since 2021 and was recently promoted to Deputy Branch Director. In addition, he teaches hazardous materials throughout Ohio for Bad Day Training.