

2017 Ohio Hazmat Teams Conference

*Workshops - Vendors - Demonstrations
Networking*



*FREE Hazmat Technician
Refresher Training*

November 3 & 4, 2017

Register at: www.OhioHazmatConference.com

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

OHIO HAZ-MAT TEAMS CONFERENCE

18th Annual Haz-Mat Technician/Specialist Refresher Training

Friday, November 03, 2017

Time	Room A	Room B	Room C
0800-0830	Registration, Coffee and Visit Exhibits		
0830-0845 0845-1015	Welcome and Opening Remarks: Mark Vedder Evacuate or Shelter-in-Place? Research on Hazmat Train Derailments Michael Heffner, Assistant Chief Deputy, Oregon Office of State Fire Marshal		
1015-1030	Break—Visit Exhibits		
1030-1200	Understanding Highway Tank Trucks Thomas Bartfai	Responding to Oil and Gas Well Incidents Ohio Oil and Gas Energy Education Program Staff	Ohio EPA: Hazmat Case Studies Ohio EPA Staff
1200-1300	Lunch - Provided in Exhibit Areas - <i>Exhibit Areas Open</i>		
1300-1430	Anhydrous Ammonia: Perfecting Properties, Processes & Packaging - Part 1 Dave Binder	A Hazmat Responders Guide to Flash Protective Clothing Dan Bowen	Class 4 Combustible Solids, Pyrophorics and Water Reactives—Part 1 Barry Lindley
1430-1500	Break—Cookies and Exhibits		
1500-1630	Anhydrous Ammonia: Perfecting Properties, Processes & Packaging - Part 2 Dave Binder	Flammable Liquid Spills and Class B Foam Operations Phil Mclean/Nick Zamiska	Class 4 Combustible Solids, Pyrophorics and Water Reactives—Part 2 Barry Lindley
1630	Evaluations and Certificates		

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OHIO HAZ-MAT TEAMS CONFERENCE

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Saturday, November 04, 2017

Time	Room A	Room B	Room C
0800-0830	Registration and Visit Exhibits		
0830-0845 0845-0945	Welcome and Opening Remarks: Mark Vedder Ohio National Guard - Civil Support Team Briefing Ohio CST Staff		
1015-1045	Break—Visit Exhibits		
1045-1215	Indicating Papers and the Modern Hazmat Team Rick Dufek	Using CAMEO Chemicals for Critical Decision Making E. Stefan Coutoulakis	AT&T National Disaster Recovery : Private Industry Hazmat Tim Knezevich & Mike Popora
1215-1300	Lunch - Provided in Exhibit Areas - <i>Exhibit Areas Open</i>		
1300-1430	FTIR & Raman Spectroscopy Rick Dufek	Best Practices in Packaging Biological Samples Bryan Seamour	Corrosives: Why Do They Act That Way?—Part 1 Barry Lindley
1430-1445	Break — <i>Cookies & Exhibits</i>		
1445-1615	Hazmat Antidotes and Medical Support of the Hazmat Team Mark Vedder	Legal Considerations for Hazmat Teams Paul Filon / Alan Finkelstein	Corrosives: Why Do They Act That Way?—Part 2 Barry Lindley
1615	Evaluations and Certificates		

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

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Class Offerings

Keynote: “Evacuate or Shelter-in-Place? Research on Hazmat Train Derailments ”

Michael Heffner, Assistant Chief Deputy, Oregon Office of State Fire Marshal

This presentation builds on an analysis of PHMSA data that recorded 358 train derailments involving the release of 876 hazardous substances between October 12, 1989 and August 10, 2016, all of which resulted in evacuation, and, in some cases, injuries or fatalities. A goal of this research study was to investigate if relationships between evacuations and injuries or fatalities recorded in train derailment data provide evidence to support the use of sheltering-in-place as an alternative to evacuation. Following a case review of the 2016 Bakken crude oil unit train derailment and subsequent fire in Oregon, this presentation will review key findings, data analysis trends, recommendations for expanding the decision-making guidance of the ERG, and overall lessons learned.



Understanding Highway Tank Trucks—Thomas Bartfai

Hazmat responders need to understand highway cargo tank construction to safely evaluate damage and make decisions about plugging and patching, off-loading product, up righting of containers. This workshop will cover the physical and structural differences of DOT306,

MC406, DOT312, MC412, and MC331 specification cargo tanks to aid in critical decision making. The hazardous material communication differences among them will also be discussed.

Responding to Oil and Gas Well Incidents—OOGEEP

This workshop will overview the equipment and hazards found at oil and gas well sites. It will review hazmat team considerations, as well as provide more in depth info on training which is offered at the Wayne County Fire School.

Hazmat Case Studies— Ohio EPA

The Ohio EPA will discuss some recent incidents which were challenging for emergency responders and happened right here in Ohio. They will discuss the role of first responders, hazmat teams, Ohio EPA and clean up contractors as they work together to resolve the incidents and protect Ohio.



Anhydrous Ammonia Emergency Response - Dave Binder

Be ready and prepared to handle anhydrous ammonia incidents by attending this session which will review 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, including live release footage. Short interactive tabletop scenarios will be worked through allowing for some practical application in dealing with the anhydrous ammonia.

A Hazmat Responders Guide to Flash Protective Clothing - Dan Bowen

This course will provide information on different performance standards available to assess chemical protective clothing worn by Hazmat Responders when the garment is exposed to a chemical flash fire. Information will be shared regarding NFPA 1991 (gas tight suits) and NFPA 1992 (liquid tight suits) standards' Flash Fire Escape Option tests and NFPA 2112 (Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire). The student will understand what different claims of "FR" really mean for their Hazmat suits.

Flammable Liquid Spills and Class B Foam Operations— Phil McLean and Nick Zamiska

This workshop will review emergency response considerations for large flammable liquid spills and class B foam operations. Discussion will include gasoline, ethanol and other hydrocarbons involved in highway incidents, industrial incidents and tank farms.

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Class 4 Flammable Solids, Pyrophorics and Water Reactives
Barry Lindley

Understanding the properties of Flammable Solids, Pyrophorics and Water Reactives is critical to successful response. This class covers Chemistry, Toxicology, Containers and Emergency Response to these unusual and highly reactive materials.

Ohio National Guard 52nd Civil Support Team (WMD)

The Ohio National Guard 52nd Civil Support Team (WMD) will brief on team capabilities and appropriate missions. The briefing will cover when to call, how to contact and what capabilities the CST can provide.

Corrosive Materials—Properties and Response - Barry Lindley

What are corrosive materials? They are the largest class of materials covered by DOT regulations. DOT defines these materials as liquids or solids that can cause visible destruction or irreversible alteration in human skin tissue at the point of contact or have a severe corrosion rates on steel or aluminum. This class discusses the issues of understanding the chemistry of corrosive materials and response to these materials in emergency situations.

Indicating Papers and the Modern Hazmat Team—Rick Dufek

Don't underestimate the power of simple pH paper, oxidizer paper, fluoride paper, water paper and M8 paper in tactical decision making. What can you rule in and what can you rule out with indicating papers?

**Using CAMEO Chemical for Critical Decision Making—
E. Stefan Coutoulakis**

How to utilize CAMEO Chemicals to formulate your IAP and incident safety plan. Make better decisions with the info in the CAMEO Chemicals app.

Packaging Bio Samples: Best Practices — Bryan Seamour

This workshop will discuss the best practices for packing biological samples for submission to the LRN ODH laboratory. Evidence preservation and screening will be discussed as well as chain of custody.

FTIR vs RAMAN—Rick Dufek



FTIR/Raman identifiers are used by many Hazmat teams. Most do not understand the proper science, use limitation and interpretation of the results. I will provide with an a presentation of the science and proper use, followed by allowing 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.

**Hazmat Antidotes and Medical Support of
the Hazmat Team—Mark Vedder**

This course covers the treatment of exposures to cyanide, hydrogen sulfide and hydrofluoric acid., including indications, contraindications, dosing and special considerations. We will also discuss pre-entry physical exams and medical support of hazmat team members.

**ATT National Disaster Recovery Team—
Tim Knezevich & Mike Popora**

Private Industry Telecom response to major incidents that impact communications. Examine how private industry response is similar to and yet differs from public sector response. Learn how you can work together on large incidents.

Legal Considerations in Hazmat Response—Filon and Finkelstein

This workshop discusses legal aspects of dealing with hazardous materials. It will familiarize participants with some of the legal underpinnings of the hazmat response and planning community. This is a little understood and examined part of our operations, but also vital to them.

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Instructors

Michael Heffner

Michael Heffner joined the Oregon Office of State Fire Marshal in 2016 where he oversees a number of programs including the state regional HAZMAT response team program, Oregon's community right-to-know (CR2K) program, the State Emergency Response Commission (SERC), local emergency planning committees (LEPCs), and HAZMAT by rail planning, training, and resource coordination initiatives. His professional background includes over 18 years of field experience working as a firefighter, paramedic, HAZMAT technician, and fire officer. Michael recently completed a master's degree in emergency services administration where the analysis of PHMSA train accident data was the central focus of his thesis.



Tom Bartfai

Tom Bartfai – Hazardous Materials Specialist for the Public Utilities Commission of Ohio since October of 1994. Conduct roadside inspections on commercial motor vehicles transporting hazardous materials. Perform safety audits on trucking companies. Additionally, perform shipper audits on hazardous material manufacturers and hazardous waste generators. Became FRA certified in August of 2015 to conduct rail hazardous material inspections.

Charlie Dixon

Charlie is a trainer with the Ohio Oil and Gas Energy Education Program. OOGEEP is a non-profit energy education and public outreach organization. OOGEEP's primary focus includes teacher workshops, scholarships, science fair, firefighter training, safety training, workforce development, fact sheets and guest speaker programs.

David Binder

David Binder is Vice Chair of the National TRANSCAER® 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.

Dan Bowen

Dan is a Technical Specialist with Dupont Protection Solutions.

Alan Finkelstein

Alan recently retired as the Assistant Fire Marshal for Strongsville Fire and Emergency Services in Strongsville, Ohio and where he was responsible for fire prevention, hazardous materials and disaster planning. He has been a certified hazmat technician/specialist since 1992 and belonged to the Southwest Emergency Response Team (SERT). He is certified as a CAMEO Suite instructor by USEPA and NOAA and teaches CAMEO throughout the country for Louisiana State University in conjunction with the Department of Homeland Security. He is also chair of the Emergency Response Subcommittee and Vice Chair of the Cuyahoga County Local Emergency Planning Committee.

Nick Zamiska

Nick has been in the fire service for 15 years, and was recently appointed as the Fire Chief of the Brecksville Fire Department in Brecksville, Ohio. Nick is the Director of the Southwest Emergency Response (SERT) Hazmat Team and 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 of Public Administration degree with a concentration in emergency services management. Nick is a fire instructor and Hazmat/WMD technician instructor. He also teaches hazmat classes all around the US as a Hazmat IQ instructor for Federal Resources.

Phil McLean

Phil McLean is the Chief of the Richfield, Ohio Fire Department. He is a fire instructor and HazMat Technician. Chief McLean has a fire protection degree from the University of Akron and served as the Director of Training for the University of Akron for 15 years.



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Instructors

Barry Lindley

Barry Lindley is a Senior Chemist with Specialized Professional Services, Inc. (SPSI). He was employed with the Chemours and DuPont Companies from 1979 till June 2016 and was a responder / team leader / instructor for the Integrated Emergency Response teams. He is a NBFSPQ Level I and II fire instructor, HAZMAT Awareness, Operations, Technician, Branch Officer, and Branch Safety Officer. Barry was a Member of NFPA 472, 1072 Committees and currently works on IFSTA's Hazardous Materials Publications Committee.



Michael Popora

Michael has 30 years' experience in Environmental, Health and Safety as a consultant and as a manager for two telecommunications companies. He is currently employed at AT&T as Sr. EH&S Manager. After responding to Hurricane Ike in 2008, he has been assigned to the AT&T Network Disaster Recovery Team where he serves as a Safety Officer. Michael has had multiple deployments in this role including Hurricane's Irene, Sandy, Joaquin, Superbowl 2012, Democratic Convention 2012, and the 2016 Republican Convention. He also serves as a safety officer in both the midwest and northeast EOC's at AT&T. Michael also serves as AT&T's subject matter expert on working from heights and excavations as well as other outside plant topics. In his spare time he participates on both the Medina and Summit County IMAT Teams.

Timothy Knezevich

Tim has over 36 years' experience in the public and private sectors. Previously Tim has worked on the Concord Township Fire Department and City of Mentor Ohio. He has special teams experience and held the rank of Lieutenant. Currently he is an Incident Commander for AT&T with the Global Technology Operations Center (GTOC), Network Disaster Recovery (NDR). He is also the Special Operations Team Commander, where he is responsible for the restoration of AT&T's global network. AT&T's Special Operations team is comprised of 30 team members trained to service network equipment in a hazardous environment. Tim was the video operations manager for Super Bowl 45 Indianapolis, 2012. And the Democratic and Republican conventions (2012). He was active in planning the Republican Convention for 2016. He was the incident Commander for super storm Sandy and other events. He is also on the Summit County IMAT team.

Bryan Seamour

Bryan is a Special Agent with the Cleveland Office of the FBI where he serves as the Weapons of Mass Destruction Coordinator. He works with local responders to prevent and prepare for response to CBRNE incidents. He closely coordinates with local, state and federal partners to insure a coordinated response.

Paul Filon

Paul is a Captain/Paramedic with the Strongsville Fire Department and Hazmat Technician with the Southwest Emergency Response Team. He is also an attorney at Buckingham, Doolittle & Burroughs, LLC specializing in business law and intellectual property. He has a BA from Case Western Reserve University and graduated from the University of Akron Law School in 2009.

Mark Vedder

Mark is a 43 year veteran of the fire service, recently retiring as Battalion Chief for Solon Fire-Rescue in Solon, Ohio. He currently serves as 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 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 Hazmat/WMD Technician Instructor.

Major Tonia McCurdy and Sergeant Thomas Roberts

Major McCurdy is the Deputy Commander and Thomas Roberts is 1st Sergeant with the Ohio National Guard 52nd Civil Support Team—WMD which is based in Columbus, Ohio. The mission of the 52nd CST is to support civil authorities at domestic Chemical, Biological, Radiological, Nuclear and high-yield Explosive (CBRNE) or natural disaster incident sites by assessing current and projected consequences, identifying CBRNE agents/substances, advising on response measures and assisting with appropriate requests for state and federal support.

Richard 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.