

OHIO HAZ-MAT TEAMS CONFERENCE

20th Annual Haz-Mat Technician/Specialist Refresher Training

Friday, November 01, 2019



| Time | Room A | Room B | Room C |
|------------------------|--|--|---|
| 0800-0830 | Registration, Coffee and Visit Exhibits | | |
| 0830-0845 0845-1015 | Welcome and Opening Remarks: Mark Vedder KEYNOTE: Leadership, Engagement and Making a Difference Greg Noll | | |
| 1015-1045 | Break—Visit Exhibits | | |
| 1045-1215 | Rail Cars 101: Off the Rails! Thomas Bartfai - PUCO Tony Schneider - USDOT/FRA | Petroleum Storage Tanks: Products, Design and Construction Greg Noll | Fourth Generation Agents Ohio 52nd CST and FBI |
| 1215-1300 | Lunch - Provided in Exhibit Areas - Exhibit Areas Open | | |
| 1300-1430 | Cryogenics: The Cold Hard Truth Nick Zamiska | Anhydrous Ammonia: Product, Packaging and Process (Part 1) Dave Binder | Response to Isocyanates— Part 1 Barry Lindley |
| 1430-1445 | Break—Cookies and Exhibits | | |
| 1445-1630 | Transportation Containers: What's on Your Highway? Thomas Bartfai - PUCO | Anhydrous Ammonia: Product, Packaging and Process (Part 2) Dave Binder | Response to Isocyanates— Part 2 Barry Lindley |
| 1630 | Evaluations and Certificates | | |

Sponsored by the Chagrin / Southeast Hazmat Response Team
with the generous support of the Ohio PUCO and the Cuyahoga County EMA & LEPC

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

OHIO HAZ-MAT TEAMS CONFERENCE

20th Annual Haz-Mat Technician/Specialist Refresher Training

Saturday, November 02, 2019



| Time | Room A | Room B | Room C |
|------------------------|---|---|--|
| 0800-0830 | Registration, Coffee and Visit Exhibits | | |
| 0830-0845 0845-1015 | Welcome and Opening Remarks: Mark Vedder KEYNOTE: Rethink Level A: PPE Selection and the NFPA Standards Christina Baxter | | |
| 1015-1045 | Break—Visit Exhibits | | |
| 1045-1215 | CAMEO/MARPLOT/ALOHA Basics: Response & Modeling E. Stefan Coutoulakis | Challenging the Decontamination Paradigm - New Evidence Based Tools Christina Baxter | Hazmat Case Studies Mark Vedder |
| 1215-1300 | Lunch - Provided in Exhibit Areas - Exhibit Areas Open | | |
| 1300-1430 | Responding to Gasoline Tank Truck Emergencies (Part 1) Leigh Hollins | RADIATION: Incidents, Accidents, and Malicious Uses Mark Linsley Transportation Emergency Preparedness Program | Introduction to Intermodal Tanks Barry Lindley |
| 1430-1445 | Break — Cookies & Exhibits | | |
| 1445-1630 | Responding to Gasoline Tank Truck Emergencies (Part 2) Leigh Hollins | RADIATION: Incidents, Accidents, and Malicious Uses (Part 2) Transportation Emergency Preparedness Program | Compressed Gas Cylinders And Liquefied Gases Barry Lindley |
| 1630 | Evaluations and Certificates | | |

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Class Offerings



Friday Keynote: “Leadership, Engagement and Making a Difference ”

Greg Noll, Program Manager, South Central Task Force

If your life and career were a movie, what would you like the ending to be? How will you peers remember you? Did you leave things better than you found them? In simple terms – did you make a difference? This session will look at the process of engagement – interacting with your peers and stakeholders both within and outside of your organization – with a focus on “making a difference.”



**Rail Cars 101—
Thomas Bartfai / Tony Schneider**

Hazmat 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.

Petroleum Storage Tanks - Greg Noll

Storage Tank Products, Design and Construction. Session will provide an overview of the major design and construction features of aboveground flammable liquid storage tanks, including cone roof, open floating roof, and covered floating roof tanks. Discussion will include application and use of Class B firefighting foams, calculating foam and water requirements for both tank fire and spill emergency scenarios, the types of fixed and semi-fixed protection systems found on storage tanks and related facility locations (e.g., dikes, loading racks), and the use of portable and mobile foam equipment.

**Cryogenic Emergencies: The Cold
Hard Truth - Nick Zamiska**

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



Fourth Generation Agents - Ohio National Guard 52nd CST

First there was chlorine and phosgene gas, then the development of blister agents like mustard and Lewisite, then the G series agents like Sarin and Soman and finally was the development of VX. But now there appears to be some new chemical agents that have shown up which are referred to as 4th Generation Agents. Come learn about what we think these are, how we can detect them, and how do we need to modify our WMD response to handle them.

Anhydrous Ammonia - Dave Binder

This course uses a game to help explain chemical and physical properties of ammonia, how it's used and how it's stored and transported. Get 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. The focus is on the practical application of all this info in dealing with the anhydrous ammonia emergencies.



Response to Isocyanate Incidents - Barry Lindley

Isocyanates are a group of chemicals that are highly reactive and extremely toxic. Widely used in the manufacture of flexible and rigid foams, fibers, coatings such as paints and varnishes, and elastomers, and are increasingly used in the automobile industry, autobody repair, and building insulation materials. This class will discuss the properties, toxicity, and emergency response to isocyanates for emergency responders.

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Saturday Keynote: Rethink Level A: PPE Selection and the NFPA Standards - Christina Baxter, CEO Emergency Responder TIPS

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 course, will demonstrate the use of decision logic for the proper selection of PPE.



Tactical TIPS: Challenging the Decontamination Paradigm – New Evidence - Based Tools - Christina Baxter, CEO Emergency Responder TIPS

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.



CAMEO/MARPLOT/ALOHA: Basics of Response & Modeling E. Stefan Coutoulakis

How to utilize the NOAA CAMEO, MARPLOT and ALOHA programs to determine basic response decisions, downwind protective actions and plume modeling. Also make better decisions with the info in the CAMEO Chemicals app.

Introduction to Intermodal Tanks - Barry Lindley

The fastest growing mode of transportation with over 6 million containers in transportation at any one time. We will discuss basic anatomy, construction and response to intermodal container incidents.



Compressed Gas Cylinders and Liquefied Gases - Barry Lindley

Cylinders – Have you Heard the one about?

- Employee killed when cylinder turned into a rocket because its valve was knocked off?
- Employee suffocated after entering a space filled with nitrogen?
- Facility damaged when acetylene cylinder heated up and exploded?
- Eyebrows singed when lighting a gas BBQ?
- Family poisoned by propane in their back yard?

This class discusses cylinder construction and response. We will discuss case studies and what can you find in cylinders.



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Responding to Gasoline Tank Truck Emergencies - Leigh Hollins

The focus is on the MC306/406 gasoline tanker, the most common hazmat transport tanker/truck on the roads in the United States. Its construction features, the chemistry/properties of the materials these tankers carry, and their gasoline and diesel fuels are discussed. In addition, learn its safety features and how to operate its systems to gain a basic working knowledge of the tanker's features so you can safely respond to a leak, spill, rollover, or fire situation. Case histories of several incidents are reviewed.



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.



RADIATION: Incidents, Accidents, and Malicious Uses Mark Linsley

The session will review actual incidents, accidents, and malicious uses of radioactive material that have occurred domestically and abroad. Through an interactive environment, participants will learn how they can recognize, detect, and protect themselves and their community from potential radiological hazards.



Hazmat Incident Case Studies —Mark Vedder

This workshop will review several recent hazmat incidents from Northeast Ohio and around the United States. We will discuss the chemicals, the containers and the environment. Each incident has unique challenges. Students will participate in scene size-up, discussion of hazards and possible options for the IAP, including PPE, product control and downwind protective actions.



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Instructors

Greg Noll

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), is a member of the PA Type-3 IMT, and is a retired member of the PA Task Force 1 Federal US&R Team with deployments to the World Trade Center and Hurricane Katrina. 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 2011 he was the recipient of the John M. Eversole Lifetime Achievement Award by the International Association of Fire Chiefs (IAFC) for his leadership and contributions to further enhance the hazardous materials emergency response profession. 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), and a member of the InterAgency Board (IAB) Training and Exercise SubGroup. Greg also serves as a member of the Editorial Advisory Board for both Fire Engineering magazine and the Fire Department Instructors Conference (FDIC).



Christina Baxter

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 situational awareness and responder safety. She also develops instructional materials in the areas of CBRNE, hazardous materials and clandestine laboratory response. She was previously the program manager over the CBRNE program at the DoD Combating Terrorism Technical Support Office where she was responsible for negotiating and managing CBRNE research and development programs. She is chairperson of the NFPA technical committee on CBRNE PPE. She

has more than 20 years experience in the CBRNE/hazardous materials response community.

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 manufactures and hazardous waste generators. Became FRA certified in August of 2015 to conduct rail hazardous material inspections.

Tony Schneider

Tony has served as an Investigator/Inspector for the USDOT Federal Railroad Administration for over 20 years. He was previously a Hazmat Specialist for 10 years with the Ohio PUCO. He is certified with the International Atomic Energy Agency, the International Air Transportation Association, the International Maritime Organization and the Transport of Canadian Dangerous Goods Regulations. He was awarded the 2018 USDOT/FRA Investigator / Inspector of the Year Award.

Nick Zamiska

Nick has been in the fire service for 18 years, currently serving as the Chief of Fire with 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'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 recently, including the Ohio Fire Chief's conference, PA Hazmat Conference, NW OH Hazmat Conference, and FDIC. Nick is a fire instructor and Hazmat / WMD technician instructor of twelve years in the State of Ohio. He is also an alternate member of the NFPA Technical Committee on Hazardous Materials / WMD Response Personnel (NFPA 472).



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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. He helped design and construct the DuPont CAER car units. And was instrumental in the development of the current DuPont / Chemours HAZMAT Training curriculum authoring several sections of the current program manual.



David Binder

David Binder is Vice Chair of the National TRANSCAER® Task Group and chaired the curriculum committee that put together the TRANSCAER 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.

E. Stefan Coutoulakis

Stefan is a 30 year veteran of the response/planning community, he has served as a Volunteer Firefighter/Rescue Officer, Fire Dispatcher, Emergency Medical Technician-Cardiac, Deputy EMA Director, and a career firefighter; attaining the rank of Captain. He served as the Hazardous Material's Officer for his LEPC since 1987 and continues to serve the State of R.I. as its coordinator for EPA/NOAA's Cameo fm Suite. In September 2010, he was appointed Emergency Management Director for Exeter, R.I. In June 2014, He was appointed the Chairman of LEPC 4, which serves the southern region of RI. Since 2012, he has served as a CAMEO instructor, planner and program developer with multiple programs.

Leigh Hollins

LEIGH began his fire service career in 1976 at Nottingham Fire Company in Hamilton Square, New Jersey. He is a training battalion chief with Cedar Hammock (FL) Fire Rescue and is director of Starfire Training Systems Inc. in Manatee County, Florida. He is a member of the Fire Engineering and FDIC editorial advisory boards.

Mark Vedder

Mark is a 45 year veteran of the fire service, 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 29 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.

Mark Linsley

Mark is a Certified Health Physicist with over 30 years of radiation safety experience and 15 years of radiological emergency response training. He currently works for Technical Resources Group providing contract support to the Department of Energy's Transportation Emergency Preparedness Program and Department of Homeland Security providing radiological training, exercise, and radioactive source, live-agent training. Prior to this he was the Assistant Radiation Safety Officer for the Pennsylvania State University and had previously worked for Brookhaven National Laboratory's Safety and Environmental Protection Division. He is also an alternate member to the National Fire Protection Association's Technical Committee on Hazardous Materials Response Personnel.

