

Presenting the  
**2022 Kansas HazMat Symposium**



**November 14, 15, 16, 2022**

**at the**

**Wichita Fire Department Regional Training Center,**

**4746 East 31<sup>st</sup> Street South, #4494, Wichita, Kansas 67210**

*Sponsored by the Office of the State Fire Marshal, Kansas Division of Emergency Management, Wichita Fire Department, Sedgwick County Fire District #1, Sedgwick County LEPC, Environmental Protection Agency Region VII, Union Pacific Railroad, Spirit AeroSystems, 908 Devices, DR HazMat, Firehouse Training & Consulting, and Kappler.*

*Funding for this conference is sponsored in part through OSFM / KDEM Hazardous Materials Emergency Preparedness (HMEP) grant funding, provided by U.S. Dept. of Transportation (PHMSA), and the Office of the State Fire Marshal Regional Hazardous Materials Response Program.*

## Keynote Speaker on Day 1

# 2022 Kansas HazMat Symposium

## Keynote Presentation:

***“When One Disaster is Just Not Enough”***

***Rodney Reed, Assistant Chief of Operational Support, Harris County (TX) Fire Marshal’s Office***

Some of the most challenging situations that a jurisdiction can face are the "Incidents Within the Incident." Many different incidents occurred during Harris County's response to Hurricane Harvey and the string of major industrial incidents that arose during the Intercontinental Terminal Company (ITC) tank farm fire and disastrous oil spill into the Houston Ship Channel. This presentation will share some of the response and operational challenges face during those campaigns.

***Monday, November 14, 2022, from 8:30-10:00 am  
at the  
Wichita Fire Department Regional Training Center  
4746 East 31<sup>st</sup> Street South, #4494, Wichita, Kansas 67210***

**Rodney Reed** is the Assistant Chief Operational Support for the Harris County Fire Marshal’s Office, with over 15 years’ fire service and military experience. Assistant Chief Rodney Reed is a graduate of Texas A&M University '04, with a bachelor’s degree in communication. Reed also holds a Master of Science in Emergency Management Services. Previously, Rodney was an Infantry Captain and Army Ranger with the 101st Airborne Division, 1-506th Infantry Regiment, who deployed to Afghanistan in support of Operation Enduring Freedom from 2008-2009. Rodney has served the residents of Harris County for the past six years with the Harris County Fire Marshal’s Office. During this time, he has sought to build greater resiliency within the response community of Harris County by unifying response operations between emergency management, Fire/EMS services, and law enforcement. Assistant Chief Reed is a published author and guest speaker throughout the state and the country. He also serves as member of the Department of Homeland Security First Responder Resource Group and the Environmental Crimes sub-committee of the International Association of Chiefs of Police. He is also a Technical Information Specialist for FEMA US&R (Texas A&M) Task Force 1 (TX-TF1).

# 2022 HazMat Symposium Training Classes

## **8-hour HAZWOPER Certification Refresher**

Presented by Sam Konkel, Safety Officer, Medxcel

*Wednesday, November 16 – 8:00 am to 5:00 pm (8 hours)*

The 8-hour HAZWOPER Refresher course satisfies OSHA's requirement for eight hours of annual refresher training for HAZWOPER trained personnel. This training class is designed for workers and managers at uncontrolled hazardous waste operations who previously completed 24-hour or 40-hour HAZWOPER training in accordance with OSHA Standard 29 CFR 1910.120.

## **Beyond the Spectrum Library**

Presented by Rick Dufek, Firehouse Training & Consulting and Hank DuPont, EM Solutions

*Monday, November 14 – 1:00 pm to 5:00 pm*

FTIR and RAMAN identification equipment is part of most HazMat teams. Most responders just rely on the response the device gives as a result of the analysis. This class will identify the use and interpretation of the results or lack of results or conflicting results of complementary technologies. This class will discuss basic spectral interpretation, and application of other monitoring technologies' results, as a bridge to the findings of Reach Back.

## **EPA Region 7 – Chemistry By The Numbers**

Presented by Doug Ferguson and EPA Region VII

*Tuesday, November 15 – 8:00 am to 12:00 pm*

Facilities provide Safety Data Sheets and other information resources (NIOSH Pocket Guide, WISER, CAMEO Chemicals, etc.) which provide a vast array of physical and chemical properties. What do these properties and numbers actually mean? How do these properties affect planning and response decisions? Participants in this class will understand how to use common chemical information resources, better understand the properties and what the numbers mean in most common chemical information resources, and how to make better response decisions based on the information in various response and release scenarios.

## **EPA Region 7 – Hands-on Field Screening and Chemical Analysis**

Presented by Doug Ferguson and EPA Region VII

*Tuesday, November 15 – 8:00 am to 12:00 pm*

Participants will use both electronic and wet chemistry techniques to identify the properties and/or identity of unknown chemical substances. Course objectives include understanding the primary field chemical testing techniques use to characterize unknown materials, evaluate which chemical testing tools are best for various HazMat scenarios, apply field chemical testing techniques in different scenarios, and use information resources to identify hazardous properties and use evaluation tools to measure the hazards.

### **Field Detection of Pesticides: Suicide, Seizures, and Sickness**

Presented by Chris Weber, DR Hazmat and 908 Devices

*Tuesday, November 15 – 1:00 pm to 5:00 pm*

Pesticides are becoming a more prevalent problem for hazardous materials responders. Historically organophosphate pesticides have been the culprit in medical emergencies and suicides. Recently there has been a surge in new pesticide development due to the continuous cycle of regulation and restrictions. Pesticides on the market now include carbamates, pyrethroids, neonicotinoids, and others. Often pesticides affect the nervous system, but in different ways. Identification of the pesticide is critical to patient treatment and keeping responders safe. We will discuss many recent incidents involving pesticide exposures and gather the lessons learned. We will examine the identification tools we have in our toolbox to detect and identify pesticides at a range of concentrations. We will look at both the acute and chronic hazards of pesticide exposure to the public and first responders and come up with strategies and tactics, so we are prepared to handle the incidents involving pesticides we will undoubtedly be dispatched to.

### **HazMat Command & Safety Breakout Session**

Facilitated by Dirk Christian, Planning & Mitigation Bureau Director, KDEM

*Wednesday, November 16 – 1:00 pm to 5:00 pm*

This breakout session will include a roundtable discussion designed to help prepare hazardous materials technicians and officers to better fulfill the roles and responsibilities required of the HazMat Branch Officer and HazMat Safety Officer in the Incident Command System (ICS), in response to hazardous materials incidents, through review and discussions of several case studies, highlighting hazardous materials emergency response 'best practices'.

### **Hazardous Materials Incident Safety Officer**

Presented by Dirk Christian, Planning & Mitigation Bureau Director, KDEM

*Wednesday, November 16 – 8:00 am to 12:00 pm (4 hours)*

This course will help prepare the Hazardous Materials Technician to fulfill the role and responsibilities required of the HazMat Incident Safety Officer in the Incident Command System in response to hazardous materials incidents. In addition, it will assist in preparing an overall hazardous materials response management program and assist with solidifying protocols and operating guidelines. Course content will include response operations and considerations, incident safety and risk analysis, resources for the safety officer, site safety considerations and plans, and the review of several case studies to reinforce course material.

### **Hazardous Materials / WMD Incident Commander**

Presented by Rodney Reed and Dave Matthew

*Tuesday, November 15 – 8:00 am to 5:00 pm (8 hours)*

This course covers the requirements for Incident Commander at a HazMat/WMD incident in alignment with NFPA 470 (Chapter 12 & 13) utilizing newly designed infographics to enforce key concepts. The participants will demonstrate competency in

managing a HazMat/WMD incidents through scenario-based exercises and group activities. The scope of the course will include Focus on transportation and fixed facility incidents, embracing of ICS principles and Hazardous Materials fundamentals, adopting a Risk-Based Response process to include chemical analysis and risk assessment, and offer smart practices in briefing decision makers at HazMat/WMD events. Target audience for this class includes First Responders who are likely to be Incident Commanders at HazMat/WMD events. Specific learning objectives include:

- (1) ELO#1- Evaluate the levels of training for HazMat/WMD response (Awareness, Operations, Technician, IC and NFPA 470 Operational responders Core, Mission Specific, and Agent Specific).
- (2) ELO #2-Identify the fundamental components to be evaluated to formulate an effective response to a HazMat/WMD incident (HazMat/WMD IC Infographic)
- (3) ELO #3-Define and Implement a risk-based response process based upon the facts, science, and circumstances of an incident (RBR Infographic).
- (4) ELO #4-Evaluate smart practices for conducting incident briefings.

### **Hazardous Materials Technician-level Refresher Training (Skill Stations 1 & 2)**

Presented by A.J. Clemmons, Kansas Office of State Fire Marshal and OSFM HazMat Program Instructors

*Tuesday, November 15 – 8:00 am to 12:00 pm  
and*

*Wednesday, November 15, 1:00 pm to 5:00 pm*

Each of these classes are designed to provide four hours of NFPA 472 and NFPA 470 standards-based refresher training at the Hazardous Materials Technician level. Skills covered during this block of instruction shall include plugging and patching leaking product containers, overpacking containers, and plugging leaking vessels, pipes, and hazardous materials containers. Personal Protective Equipment, including Level A, Level B, and Level C, along with Self-Contained Breathing Apparatus (SCBA) will be utilized during this class. Students must bring SCBA and face pieces they are fit-tested for in order to participate in this training class.

### **Hazardous Materials Technician-level Refresher Training (Skill Stations 3 & 4)**

Presented by A.J. Clemmons, Kansas Office of State Fire Marshal and OSFM HazMat Program Instructors

*Tuesday, November 15 – 1:00 pm to 5:00 pm  
and*

*Wednesday, November 15, 8:00 am to 12:00 pm*

Each of these classes are designed to provide four hours of NFPA 472 and NFPA 470 standards-based refresher training at the Hazardous Materials Technician level. Skills covered during this block of instruction shall include product control for hazardous vapor environments; particularly Chlorine vessels, and application of Chlorine Kits A, B, and C. Personal Protective Equipment, including Level A, with Self-Contained Breathing Apparatus (SCBA) will be utilized during this class. Students must bring SCBA and face pieces they are fit-tested for in order to participate in this training class.

## **Outclassing Emerging Threats with Emerging Technology: FGAs, PBAs, and Aerosols**

Presented by Chris Weber, DR Hazmat and 908 Devices

*Monday, November 14 – 10:00 am to 12:00 pm*

Emergency responders are faced with a diverse and continuously evolving threat landscape. Fourth generation nerve agents (Novichoks) and pharmaceutical based agents (PBAs) clearly demonstrate that chemical warfare has continued to evolve since WWII. The ability to detect Novichoks and opioids at tactically meaningful concentrations is limited. Synthetic opioids, such as those used in the Moscow Theater Crisis in 2002, demonstrate the effectiveness of highly toxic synthetic materials dispersed as an aerosol—a threat which legacy CWA detection equipment cannot reliably counter. Come see how and why these emerging threats challenge legacy equipment, and how emerging technology can help not only detect but identify these materials in the solid, liquid, vapor, and aerosolized forms. Real time, tactical decision-making regarding PPE, casualty management, sampling and identification, critical facility protection, and decontamination are critical to keeping emergency responders and the public safe.

## **Recon to Decon: Detection and Identification Tactics**

Presented by Chris Weber, DR Hazmat and 908 Devices

*Wednesday, November 16 – 8:00 am to 12:00 pm*

The interplay of detection and identification equipment - from papers to mass spectrometry - comes into clear focus in this hands-on workshop. We will examine the effect of chemical class, concentration, and the complexity of mixtures on detection and identification. The contents of your detection toolbox often make the difference between success and failure. Come see for yourself what the capabilities and limitations of the different meters are, and how to make sure you don't run into a capability gap on your team.

## **Response to HazMat Emergencies in Industrial Plants**

Presented by Andy Hall, Spirit AeroSystems Fire and Safety

*Monday, November 14 – 10:00 am to 12:00 pm*

Responses to industrial locations present firefighters and first responders with many unique hazards and challenges. This class presentation will detail how fire service personnel, first responders, and industrial personnel can work together to resolve the emergency incident safely and most efficiently.

## **Response to Acid Emergencies with Hydrofluoric Acid**

Presented by Andy Hall, Spirit AeroSystems Fire and Safety

*Tuesday, November 15 – 10:00 am to 12:00 pm*

This presentation will cover the challenges and risks associated with HF Acid emergencies, risk and response options associated with HF Acid spills and releases, and emergency medical treatment for HF Acid incidents.

### **Specialist-level Monitoring Refresher – Kansas HMRT RAE Systems Monitors**

Presented by A.J. Clemmons, Kansas Office of State Fire Marshal, and OSFM HazMat Program Instructors

*Wednesday, November 16 – 1:00 pm to 5:00 pm*

Seven of the nine Regional HMRTs in the state of Kansas are now using RAMAN chemical identification capabilities, and all 9 of the teams are using HazMat ID Elite FTIR equipment. This class provides an excellent refresher on RAE Systems equipment that is also common to each team, including MultiRAEs, ppbRAE's, and MiniRAE's. This is another hands-on refresher opportunity for HazMat Technicians and Specialists attending the Symposium and looking for additional monitoring training.

### **Union Pacific RR – Railway Tank Car Class & Hands-on Training**

Presented by Lane Sekavec, Union Pacific Railroad Safety

*Monday, November 14 – 1:00 pm to 5:00 pm*

This four hour class will provide additional information relevant to the HazMat Technician and HazMat Specialist making Risk-Based Response decisions when responding to common railcar emergencies, including emergency response to Chlorine tank car incidents. Hands-on training will include an in-depth review and training on the equipment necessary to safely mitigate Chlorine tank care emergencies and leaks.

### **What's the Meaning of This?**

Presented by Rick Dufek, Firehouse Training & Consulting

*Monday, November 14 – 10:00 am to 12:00 pm (2 hours)*

*and*

*Tuesday, November 15 – 8:00 am to 10:00 am*

As a HazMat safety professional, or HazMat Responder, we must be able to determine the hazards a material may have to be able to understand the risks they pose. There are a lot of different terms we use to determine this. Sure... we may know the definition of boiling point, vapor pressure, flash point, temperature of the material, etc., but do we know how to tactically apply the terms in an emergency...? Using a Risk-Based Approach, this session will provide you with a systematic approach to using and applying them during future HazMat emergency response operations.

**2022 Kansas HazMat Symposium**

**Wichita Fire Dept. Regional Training Center - November 14-16, 2022**

**COMMAND TRACK**

<b>DATE / TIME:</b>	<b>Monday, November 14</b>	<b>Tuesday, November 15</b>	<b>Wednesday, November 16</b>
0730 – 0800	<b>Registration Open</b>	<b>Registration Open</b>	<b>Registration Open</b>
0800 – 0830	<b>Welcome Remarks, Conference Opening</b>	<b>Hazardous Materials / WMD Incident Commander</b>  (Rodney Reed & Dave Matthew)	<b>Hazardous Materials Incident Safety Officer</b>  (Dirk Christian)
0830 – 0900	<b>Keynote Address: “When One Disaster is Just Not Enough”</b> (Rodney Reed)		
0900 – 0930			
0930 – 1000			
1000 – 1030			
1030 – 1100	<b>What’s the Meaning of This?</b>  (Rick Dufek)		
1100 – 1130			
1130 – 1200			
1200 – 1230		<b>LUNCH</b>	<b>LUNCH</b>
1230 – 1300			
1300 – 1330	<b>Open Time – Observe Classes and/or Personal Networking Time</b>	<b>Hazardous Materials / WMD Incident Commander</b>  (Rodney Reed & Dave Matthew)	<b>HazMat Command &amp; Safety Breakout Session</b>  (Facilitated Discussion)
1330 – 1400			
1400 – 1430			
1430 – 1500			
1500 – 1530			
1530 – 1600			
1600 – 1630			
1630 – 1700			
1700 – 1800	<b>Dinner On Your Own</b>	<b>Dinner On Your Own</b>	<b>Conference Complete</b>
1800 - 2100	<b>Instructors Dinner</b>	<b>Hospitality Room</b>	<b>Safe Travels!!</b>



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### SPECIALIST TRACK

DATE / TIME:	Monday, November 14	Tuesday, November 15	Wednesday, November 16
0730 – 0800	Registration Open	Registration Open	Registration Open
0800 – 0830	Welcome Remarks, Conference Opening	EPA Region 7 – Hands-On Field Screening & Chemical Analysis  (Doug Ferguson)	Recon to Decon: Detection and Identification Tactics  (Chris Weber)
0830 – 0900	Keynote Address: “When One Disaster is Just Not Enough” (Rodney Reed)		
0900 – 0930			
0930 – 1000			
1000 – 1030			
1030 – 1100	Outclassing Emerging Threats with Emerging Technology: FGAs, PBAs, and Aerosols (Chris Weber)		
1100 – 1130			
1130 – 1200			
1200 – 1230		LUNCH	LUNCH
1230 – 1300			
1300 – 1330	Beyond the Spectrum Library  (Rick Dufek and Hank DuPont)	Field Detection of Pesticides: Suicide, Seizures and Sickness  (Chris Weber)	Specialist-level Monitoring Refresher:  QRAE, MultiRAE, AreaRAE’s, ppbRAE, and Mini RAE 3000  (AJ Clemmons)
1330 – 1400			
1400 – 1430			
1430 – 1500			
1500 – 1530			
1530 – 1600			
1600 – 1630			
1630 – 1700			
1700 – 1800	Dinner On Your Own	Dinner On Your Own	Conference Complete
1800 - 2100	Instructors Dinner	Hospitality Room	Safe Travels!!

## 2022 Kansas HazMat Symposium

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### TECHNICIAN TRACK

DATE / TIME:	Monday, November 14	Tuesday, November 15	Wednesday, November 16
0730 – 0800	<b>Registration Open</b>	<b>Registration Open</b>	<b>Registration Open</b>
0800 – 0830	<b>Welcome Remarks, Conference Opening</b>	<b>Hazardous Materials Technician-level Refresher Training</b>  <b>Hands-On Training Skills Stations 1 and 2</b>  (AJ Clemmons)	<b>Hazardous Materials Technician-level Refresher Training</b>  <b>Hands-On Training Skills Stations 3 and 4</b>  (AJ Clemmons)
0830 – 0900	<b>Keynote Address: “When One Disaster is Just Not Enough”</b> (Rodney Reed)		
0900 – 0930			
0930 – 1000			
1000 – 1030			
1030 – 1100	<b>EPA Region 7 – Chemistry By The Numbers</b> (Doug Ferguson)		
1100 – 1130			
1130 – 1200			
1200 – 1230	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>
1230 – 1300			
1300 – 1330	<b>Union Pacific RR Railway Tank Car Class &amp; Hands-On Training</b>  (Lane Sekavec)	<b>Hazardous Materials Technician-level Refresher Training</b>	<b>Hazardous Materials Technician-level Refresher Training</b>
1330 – 1400			
1400 – 1430		<b>Hands-On Training Skills Stations 3 and 4</b>	<b>Hands-On Training Skills Stations 1 and 2</b>
1430 – 1500			
1500 – 1530			
1530 – 1600		(AJ Clemmons)	(Adjunct HMT Inst.)
1600 – 1630			
1630 – 1700			
1700 – 1800	<b><i>Dinner On Your Own</i></b>	<b><i>Dinner On Your Own</i></b>	<b><i>Conference Complete</i></b>
1800 - 2100	<b>Instructors Dinner</b>	<b>Hospitality Room</b>	<b>Safe Travels!!</b>

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### INDUSTRIAL TRACK

DATE / TIME:	Monday, November 14	Tuesday, November 15	Wednesday, November 16
0730 – 0800	Registration Open	Registration Open	Registration Open
0800 – 0830	Welcome Remarks, Conference Opening	What's the Meaning of This?  (Rick Dufek)	8-hour HAZWOPER Certification Refresher  <b>Part 1</b>  (Sam Konkell)
0830 – 0900	Keynote Address: <i>“When One Disaster is Just Not Enough”</i> (Rodney Reed)		
0900 – 0930			
0930 – 1000			
1000 – 1030	Response to HazMat Emergencies in Industrial Plants  (Andy Hall)	Response to Acid Emergencies with Hydrofluoric Acids  (Andy Hall)	
1030 – 1100			
1100 – 1130			
1130 – 1200			
1200 – 1230	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>
1230 – 1300			
1300 – 1330	Union Pacific RR Railway Tank Car Class & Hands-On Training  (Lane Sekavec)	Industry & Municipal HazMat Networking Breakout Session	8-hour HAZWOPER Certification Refresher  <b>Part 2</b>  (Sam Konkell)
1330 – 1400			
1400 – 1430			
1430 – 1500			
1500 – 1530			
1530 – 1600			
1600 – 1630			
1630 – 1700			
1700 – 1800	<i>Dinner On Your Own</i>	<i>Dinner On Your Own</i>	<b>Conference Complete</b>
1800 - 2100	Instructors Dinner	Hospitality Room	Safe Travels!!

## Preferred Conference Hotel:



### **Drury Plaza Hotel Broadview Wichita**

400 West Douglas Avenue, Wichita, KS 67202

Hotel Phone: (316) 262-5000

Hotel Website: [Drury Plaza Hotel Broadview Wichita - Drury Hotels](https://www.druryhotels.com/bookandstay/newreservation/?groupno=10039778)

State Govt/GSA Rate per night: \$103.00 for single rooms

Here is the Group Reservation Link for the HazMat Symposium:

<https://www.druryhotels.com/bookandstay/newreservation/?groupno=10039778>