Register Online Now!

The 36th Annual

CONTINUING CHALLENGE

HazMat Emergency Response Workshop

The nation's leading Hazardous Materials Emergency Response Workshop

SEPTEMBER 2-5, 2025

DoubleTree by Hilton Hotel—Sacramento CA

The specific purpose for the Committee is to educate, encourage and promote safe inspection practices, response, intervention, mitigation and investigation of hazardous materials incidents in a manner that safeguards and protects the health and safety of the emergency responder and the general public. This purpose is achieved by conducting an annual hazardous materials workshop known as the "Continuing Challenge Hazardous Materials Workshop." The Committee is comprised of government and industry emergency response organizations promoting timely and appropriate response to hazardous materials incidents that might occur within the community.

The Continuing Challenge Hazmat Workshop

On behalf of the Continuing Challenge Committee, I want to welcome you to the 36th Annual HazMat Workshop. Since the last HazMat Workshop California has experienced many major hazmat incidents.
On August 19th, 2025 a Tesla semi-truck tractor crashed and caught fire. The Fire Department used around 50,000 gallons of water to protect the forest from catching fire. This incident closed Interstate 80 for 15 to 18 hours.
January 2025 Los Angeles County experienced two very large fires, the Palisades and Eaton fires. The Palisades fire destroyed more than 6800 structures and covered over 36 square miles. The Eaton fire destroyed more than 9400 structures and covered 22 square miles. One of the largest hazmat issues is the hundreds of electric vehicles plus all the other hazardous materials destroyed in the fires.
On January 16th, one of the largest battery storage facilities in United States caught fire in Moss Landing, California. The fire was contained to the building and allowed to burn until it was safe for the Fire Department to enter. Many people were evacuated and others were told to shelter in place.
On February 1st, the Martinez Oil Refinery caught fire, six employees were injured. A shelter in place was given for the surrounding neighborhood to shelter in place.
Hazmat incidents are always going to be an issue, these were in California what about the other 49 states. As you can see these incidents in California show the different types of incidents you could be faced with.
The Continuing Challenge HazMat Workshop is dedicated to providing you the best hazmat training possible. Some of the benefits for you to attend The Continuing Challenge HazMat Workshop are as follows:
You will be trained by the - best instructors in the hazmat business.
The - exhibitors will display all kinds of safety equipment, instruments and many new devices.
- Networking at the Challenge is one of the most important benefits, seeing old friends and making new ones.
The Continuing Challenge provides three lunches, Wednesday, Thursday and Friday plus dinner Wednesday evening.
The General Store will provide you with all kinds of merchandise for purchase. This gives you a chance to take something home to remember your time at the Workshop.
This year's Continuing Challenge HazMat Workshop will provide you with the best hazmat training possible, give you a chance to see the Exhibitors and see some of the latest equipment available. You will have a chance to spend time networking and best of all have a great time.
This is an high tech Workshop with a kick back attitude. Please join me and the Continuing Challenge Committee for the 36th Annual HazMat Workshop. Looking forward to seeing you in September 2025.

Dennis Smith
Chairperson

Follow us on Linkedin:
https://www.linkedin.com/in/the-continuing-challenge-77047631b/

Save the Date

for September 2026 The 37th Annual Hazmat Workshop
September 8-11, 2026
DoubleTree by Hilton Hotel Sacramento, California

Table of Contents

Equipment Demos and Static Equipment Displays are located in the Front Parking Lot

Z807 Live Propane Fire / Propane Emergency

Instructor Rob Scott Tuesday 7:30a.m. to 5:00p.m.

The WPGA Live Fire Training school is self-contained. Certified, experienced WPGA firefighters teach the course. We bring the propane tank and all required equipment to train the local fire departments. Each course takes about three hours; this session covers propane`s combustion characteristics, system safeguards, valving, and firefighting technique information. The Propane Emergency Class: Is a comprehensive training program and has been adopted by 27 state firefighter training agencies and propane marketers. It is designed to help emergency responders develop the skills necessary to manage a propane emergency in transportation or at fixed facilities.

Workshop At-A-Glance

Monday September 1	Tuesday September 2	Wednesday September 3	Thursday September 4	Friday September 5
	Check in: Exhibitor Instructor Student Room - Maxi's 6:30 a.m. - 11:00 a.m. 1:00 p.m. - 5:30 p.m. Check in continues after lunch	Check in: Exhibitor Instructor Student Room - Maxi's 6:30 a.m. - 11:00 a.m. 1:00 p.m. - 5:30 p.m. Check in continues after lunch	Check in: Exhibitor Instructor Student Room - Maxi's 6:30 a.m. - 11:00 a.m. 1:00 p.m. - 5:30 p.m. Check in continues after lunch	Check in: Instructor Student Room - Maxi's 7:00 a.m. - 11:00 a.m.
	General Store by Registration (Maxi's) 7:30 a.m. - 4:00 p.m. 8-hour Classes begin 7:30 a.m. - 11:30 a.m. Morning Break 9:15 a.m. - 9:45 a.m. (Classes continue after lunch). Lunch is on your own.	General Store Exhibitor Area 7:30 a.m. - 4:00 p.m. **Opening Ceremony** • **Keynote Speaker** • **Awards Presentation** Grand Ballroom 7:30 a.m. - 9:30 a.m. **Morning Break & Exclusive Exhibitor Time** **Exhibitor Area** **9:30 a.m. - 11:30 a.m.**	**LAST DAY** General Store Exhibitor Area 7:30 a.m. - 3:30p.m. 4-hour Classes begin 2-hour Classes begin 7:30 a.m. - 9:15 a.m. **Exhibitor Displays Open** Exhibitor Area 9:00 a.m. - 3:15 p.m. Morning Break Exhibitor Area 9:15 a.m. - 9:45 a.m. 4-hour Classes continue	General Store - **Closed** 4-hour Classes begin 2-hour Classes begin 7:30 a.m. - 9:15 a.m. Morning Break 9:15 a.m. - 9:45 a.m. 4-hour Classes continue
	Lunch **(on your own)** 11:30 a.m. - 12:45 p.m.	**Lunch & Exhibitor Showcase** **Grand Ballroom** 11:30 a.m. - 12:45 p.m.	**Lunch** **Grand Ballroom** 11:30 a.m. - 12:45 p.m.	**Lunch** Grand Ballroom 11:30 a.m. - 1:30 p.m.
	Check in: Exhibitor Instructor Student continues Room: Maxi's 1:00 p.m. - 5:30 p.m. 8-hour Classes continue 1:00 p.m. - 5:00 p.m. Afternoon Break 2:45 p.m. - 3:15 p.m.	Check in: Exhibitor Instructor Student continues Room: Maxi's 1:00 p.m. - 5:30 p.m. Exhibitor Displays Exhibitor Area Open until 6:00 p.m. 4-hour Classes begin 2-hour Classes begin 1:00 p.m. - 2:45 p.m. Afternoon Break Exhibitor Area 2:45 p.m. - 3:15 p.m. 4-hour Classes continue 2-hour Classes begin 3:15 p.m. - 5:00 p.m. **Wed Evening Dinner & "Name that Unknown" Contest** **Grand Ballroom** **5:30 p.m.**	Check in: Exhibitor Instructor Student continues Room: Maxi's 1:00 p.m. - 5:30 p.m. **Exhibitor Displays** **Exhibitor Area** **Open until 3:15 p.m.** 4-hour Classes begin 2-hour Classes begin 1:00 p.m. - 2:45 p.m. Afternoon Break Exhibitor Area 2:45 p.m. - 3:15 p.m. 4-hour Classes continue 2-hour Classes begin 3:15 pm - 5:00 p.m.	Closing Ceremony Grand Ballroom 11:30 a.m. - 1:30 p.m.
Exhibitor, Instructor, & Student Check in Room - Maxi's 3:00 p.m. - 5:30 p.m.				

Keynote Speakers Through the Years

1990	John Eversole	Chicago Fire Department
1991	Capt. Michael Callan	Wallingford Fire Department
1992	Ron Coleman	California State Fire Marshal
1993	Greg Noll	Reading Fire Department, Pennsylvania
1994	Mr. Al Smith	Law Firm of McRae, Secrest, and Fox Atlanta, Georgia
1995	Gordon Graham	California Highway Patrol
1996	Cliff Harvison	President, National Tank Truck Carriers, Inc.
1997	Commander Shane Ishiki	Commanding Officer National Strike Team, U.S. Coast Guard
1998	Robert Born	Special Agent FBI
1999	Mike Callan	Fire Training Associates
2000	Dwight Williams	Williams Fire Suppression
2001	Michael Pritchard	Motivational Speaker
2002	Phil McArdle	New York City Fire Department
2003	Harry Cusick	Philadelphia Fire Department
2004	Michael Callan	Callan and Company Response Training
2005	R. David Paulson	Director U.S. Fire Administration
2006	James Lee Witt	James Lee Witt Associates
2007	Rem Gaade	Toronto Fire Department
2008	Matt Krimsky	San Francisco Police Department
2009	Michael Callan	Callan and Company Response Training
2010	Chief Richard Brooks	Director of Emergency Services Cecil County Maryland
2011	Nick Vent	County of San Diego
2012	Harold Schapelhouman	Menlo Park Fire Protection District
2013	Mark Neveau	Federal Coordinating Officer FEMA
2014	Michael Callan	Callan and Company Response Training
2015	Timothy Butters	USDOT/Pipeline and Hazardous Materials Safety Administration
2016	Michael Pritchard	Motivational Speaker
2017	Jamie Hyneman	American Special Effects Expert
2018	Matt Krimsky	Cal OES, California Specialized Training Institute (CSTI)
2019	Michael Callan	Callan and Company Response Training
2020	Tina Casola	First Alarm Wellness CANCELLED DUE TO Covid-19
2021	Tina Casola	First Alarm Wellness CANCELLED DUE TO Covid-19
2022	Jeff Dill	Firefighter Behavioral Health Alliance (FBHA)
2023	Robert Rezende	San Diego Fire-Rescue
2024	Mark Durno	Homeland Security Advisor U.S. EPA Region 5

Exhibitor Index (as of 5/5/25)

908 Devices
Agilent Technologies
Bertin Environics
Haz Tech Systems Inc
National Association of State Fire Marshals
NES, Inc. / NCC Training
Ortec
Patriot Environmental Services
Pendar Technologies
Proengin Inc
Safe Environment Engineering
Safeware Inc.
State Fire Training

Thank you

to all our Instructors, Inspectors, Responders, Hazmat Teams, and Exhibitors who help keep our communities safe!

Tuesday Full day classes, full of learning and hands-on involvement

8-Hour Classes 7:30 a.m.-5:00 p.m,

Lunch is on your own

Z801 Assistant Safety Officer-Hazardous Materials Part 1 of 3,
Michael Mudgett, Brad Haldeman
This course is `mini-track` connected to Tuesday Component. This course in hazardous Materials response for the Assistant Safety officer complies with the requirements for the state California`s Hazardous Substances Incident Response Training Education Program (Gov. Code Section 8574) CCR Title 8-Section 5192 (q) CCR Title 19-Section 2520.
Advanced. Hazardous Materials Technician/Specialist. Must Provide a copy of certificate.

Z802 Tactical Chemistry
Chris Weber, Dana Von Kolen
Tactical decisions at hazardous materials emergencies are heavily influenced by the released chemicals and their properties. Using NFPA 470 as the framework, we will make tactical decisions as hazardous materials incidents fall into place using chemical demonstrations, scenario-based exercises, and hands-on chemical identification exercises using a variety of air monitoring and sample identification equipment. We will examine the effect of chemical class, concentration, and complexity of mixtures on detection, identification, and product control. The class is highly interactive with students leading the direction of the class as we discuss scenarios culled from the news to illustrate the chemistry of hazmats.
Intermediate. Hazmat Technician

Z803 Everything You Wanted to Know About Radiation But Were Afraid to Glow
Carl Palladino, Evan McKenzie, Zhi Zhang, Joe Hurtado
This course consists of three sections, lecture, hands-on exercises and review of case studies. The lecture provides a primer on nuclear radiation, exposure health effects, protection methods, decontamination, instrumentation, site investigation protocols, and a discussion of radiation misconceptions. The hands-on exercises include the proper use of radiological instrumentation and interpretation of readings while conducting experiments to demonstrate nuclear radiation concepts. Finally, several fascinating radiological emergency case studies are reviewed.
Basic.

Z804 HAZMAT response to Illicit Cannabis Cultivation and Resin Extraction Environments
Jackie Long
This HAZWOPER course is designed to address the unique safety concerns of personnel engaged in illicit cannabis operations, focusing on health and safety issues associated with cannabis cultivation, extraction, and processing sites. This presentation includes both classroom instruction and hands-on training, featuring cannabis resin extractions as a demonstration to offer practical insights into cannabis operations.
Basic.

Z805 The Meter Guys "When Meters Matter" Air Monitoring for First Responders.
Scott Russell, Ben Bosley
The Meter Guys is an innovative simultaneous hands-on lecture meter training program focused on Emergency Responders, Hazmat Personnel, and Industrial workers. This class provides students with the skills and competencies on how to properly use a Multi-Gas Meter, understand the readings, and interpret the implications of such during an emergency response. The Meter Guys program is tailored to our audience, making the information easy to grasp and comprehend, thereby meeting your training needs. There is no other hands-on meter class of this caliber. Our students will tell you so!
Basic.

Z806 Classify, Identify and Verify using Wet Chemistry with the Hazcat Kit Daniel Keenan, Maria Duazo, Jon Poganski, Maria Porciuncula Duazo
Wet Chemistry - Your best tool to assess Hazard Classifications, RCRA Waste Characteristics and determine compatibility of hazardous wastes prior to bullking. With the Hazcat Kit you can Classify, Identify and Verify Hazardous Materials. Learn a strategy to identify components of commercial formulations and mixed wastes. Attendees will use the HazCat 2.0 System. You can learn how to Hazcat in one day; and if you already know your stuff, here is an opportunity to see what is on the horizon for Field ID of unknown substances. Get a primer for the Name That Unknown Contest – All Hands-On & Fun!
Basic.

Z807 Live Propane Fire / Propane Emergency
Rob Scott
The WPGA Live Fire Training school is self-contained. Certified, experienced WPGA firefighters teach the course. We bring the propane tank and all required equipment to train the local fire departments. Each course takes about three hours; this session covers propane`s combustion characteristics, system safeguards, valving, and firefighting technique information. The Propane Emergency Class: Is a comprehensive training program that has been adopted by 27 state firefighter training agencies and propane marketers. It is designed to help emergency responders develop the skills necessary to manage a propane emergency in transportation or at fixed facilities.
Basic.

Z808 HAZWOPER 8hr Refresher
Nick Vent
To provide Hazwoper personnel and responders with the necessary information to safely and competently respond within the typical resource and capability limits at the HAZWOPER level. Meet the OSHA HAZWOPER training standard requirements of 29 CFR 1910.120 & Cal OSHA Title 8 CCR 5192. Also meets OSHA`s requirement for qualifications as a first responder within the 29 CFR 1910.120(q)(8) & Cal-OSHA T8 CCR 5192(q)(8). Refresher certificate will be issued by Sustainable Workplace Alliance.
Basic. Must have taken Basic HAZWOPER or a Hazwoper emergency response course.

Z809 PEAC Software - Complete Onsite Training Class
C. Scott Bunning, Kristina Escalante
This hands-on workshop will educate students on how to most effectively use PEAC software during incident response and planning. This class is the equivalent to our full-day, onsite training class available to HAZMAT teams. We will take an in-depth look at both the online and offline PEAC interfaces reviewing the 4 main functions of PEAC - Tech Ref/Research, Facility Inventories, Modeling (plumes, explosives, etc.) and Incident Management/ICS. Upon completion students will know how to access, use, and distribute the data included in PEAC, and how to apply the calculation and situational analysis tools to their response operations.
Basic.

Assistant Safety Officer-Hazardous Materials
3 days Tuesday Z801, Thursday T458, and Friday F412. This course in hazardous Materials response for the Assistant Safety officer complies with the requirements for the state California`s Hazardous Substances Incident Response Training Education Program (Gov. Code Section 8574) CCR Title 8-Section 5192 (q) CCR Title 19-Section 2520.
You Will need to attend all sessions to receive certification.

Z810 Masters of Gas Detection
Chris Wrenn

A comprehensive course in the fundamentals of handheld gas detection for use in confined space entry and HazMat. It explains why we need gas detection, a short discussion of chemical properties, how gas detectors work and an understanding of exposure limits is included. Trainees are taught to look through the "eyes" of the gas detector to better solve gas detection problems by using all the detection "angles" available to them. Detection options (tubes, O2, LEL, electrochemical, NDIR, PIDs, FIDs, MOS), sensor specifications, sampling techniques, calibration, intrinsic safety requirements and datalogging may be discussed.

Advanced.

Z811 What's That? Let's Sample it.
Kazami Brockman, Bianca Handley, Amanda Wagner, Molly Patterson

Ever wondered, "How do I sample that?" This class is going to tell you that. This class will be a whirlwind tour of sampling techniques on all types of media from the water beneath the earth to the air in the sky and everything in between. It is brought to you by the emergency response folks at EPA who come out and cleanup the mess after a big incident and have to sample everything to get rid of it. The course will include lecture, case studies and hands-on sampling exercises.

Basic.

Z812 Effective After-Action Reporting and Continuous Improvement - New Approaches
Kim Fletcher, Delilah Barton, Robert Fletcher

Haz-Mat Responders know quite well the value of the AAR process. In times of change, budget constraints and uncertainty, a focus on continuous improvement can help Responders and their organizations become even more agile and effective. By the end of this course, you will learn how AARs and continuous improvement activities refine problem solving, promote accountability, surge innovation, expand adaptability and agility and increase team collaboration. This is an interactive course, and we encourage attendees to bring AARs with them.

Basic.

Z813 HazMat Decontamination Refresher - non certified
Michael Beeman

This is a basic refresher of decontamination..

Basic.

Shop the Continuing Challenge General Store

Hours:

Tuesday,
7:30 a.m.- 4:00 p.m.
In front of registration

Wednesday & Thursday
7:30 a.m.- 4:00 p.m.
Near the indoor Exhibitors
Get the latest and greatest

Exclusive Memorabilia

Only available at this year's workshop!

Awards Nominations are being accepted now at hazmat.org, under the "About Us" tab. Nominate someone you know today for that special award.

Our Purpose

The specific purpose for the Continuing Challenge Hazmat Committee is to educate, encourage and promote safe inspection practices, response, intervention, mitigation and investigation of hazardous materials incidents in a manner that safeguards and protects the health and safety of the emergency responder and the general public. This purpose is achieved by conducting an annual hazardous materials conference known as the "Continuing Challenge Hazardous Materials Workshop." The Committee is comprised of government and industry emergency response organizations promoting timely and appropriate response to hazardous materials incidents that might occur within the community.

Wednesday Morning

Opening Ceremonies 7:30 a.m.-9:30 a.m. Keynote Speaker Christopher Myers

Christopher Myers, is a Federal On-Scene Coordinator (FOSC) with the United States Environmental Protection Agency in Los Angeles, California. Mr. Myers became a FOSC in USEPA Region IX in 2018 after spending 12 years as a contractor for the USEPA's Emergency Response Program in Regions VIII and IX. Christoper is a contributor to multiple national workgroups including the Emergency Response Technical Group, National Biological Preparedness Workgroup, Chemical Warfare Agent Preparedness Workgroup and holds the position of Co-Coordinator of the USEPA's National Lithium-Ion Battery Emergency Response Taskforce. Mr. Myers has received multiple Gold Metals for Exceptional Service for his involvement with wildfire disaster responses and as part of the leadership team during the Red Hill drinking water emergency in Hawai'i. Christopher was presented with the 2023 National OSC of the Year award, and for serving as an Incident Commander during the Maui Wildfires was a contributing member to the 2024 Samuel J Heyman Service to America award winning team from the USEPA.

9:30 a.m.- 11:30 a.m. Break Time and Exclusive Exhibitor Time, Both Inside and Static Display Areas Outside

Please join our exhibitors as they display and demonstrate the latest and greatest equipment and techniques available.

It is important that you visit with the Exhibitors so you can see, touch, and handle the products that the Challenge instructors are telling you about.

Exhibitors will be both inside and outside in the parking lot.

Don't forget to nominate that deserving person for an award. at www.hazmat.org/about-us/awards/

4-Hour Classes 1:00-5:00

W451 Emergency Ready: EHTER Hands-On CrashCourse

Thaddeus Hunt, Deborah Andersdon, Hoa Tan

Why do birds sing? Why's the sky blue? Why am I throwing up? And why are you too? Investigate mysterious complaints in your community, determine if it's a HazMat release, poor personal hygiene, or a malevolent force. This hybrid course combines lecture and exercise to apply Environmental Health principles with your investigative mind to resolve public health issues. Extend your understanding of environmental health and apply that knowledge as you work through the exercise. You'll walk away versed in Environmental Health, its application, and the union of ESF 8 and ESF 10 to protect our communities amid disaster.

Basic

W452 Small Spills 2.0

Mark Bridges

This Small Spills class gives HazMat Team Members and FRO's the tools to handle the smaller, more common incident types safely and effectively. These incidents range from odor complaints, pesticide spills, abandoned chemicals, powder calls, Stinger ops., gas leaks, and many others. New this year is the introduction of several check-off lists to assist the responder. Tips, tricks, and new techniques will also be shared. Students will receive a flash drive containing updated check-off lists, a HazMat Task Book, policies, procedures, videos, and HazMat related PowerPoints.

Basic.

W453 Essentials of Radiological Terrorism

Carl Palladino

Are you ready to handle radiological terrorism? Learn how to respond to a radiological terrorist incident: nationwide plans and procedures, detecting radiation, handling radioactive contaminated materials, site control, preventing mass hysteria, media and public communication, and more.

Basic.

W454 Two Major Farming Threats to First Responders

Patti Carter, Charolette Girocco, Gary Smith

This session will focus on two types of farming accidents that can cause significant injury to the first responder: Organophosphate accidents and Ammonia-leak accidents with low level wind. The student, after practicing response scenarios in a tabletop exercise, will understand how to recognize the need for and the ordering process for the CHEMPACK in organophosphate events, as well as how to maintain a safe response in an ammonia accident with low level wind. The students will also receive an overview of the Ammonia Safety and Training Institute CONOPS Plan for Ammonia response.

Basic.

W455 Basic CAMEO for HazMat Responders

Tom Bergman

This course covers the basic operations of the 4 CAMEO Suite programs that are routinely utilized during chemical incidents. Participants will use CAMEO Chemicals to obtain SDS-style information for chemicals along with using the associated Reactivity Worksheet to determine potential reactions between identified chemicals. Participants will use ALOHA to examine potential downwind contamination zones and will plot multiple ALOHA plumes onto the MARPLOT program. Also, participants will review using the CAMEOfm program to manage Facility, Resources, and Special Location information.

Basic.

W456 Bio-101: The Basics Of Biological Agent Response & Cleanup

Shannon Serreom, Mark Durno

Responding to a biological agent incident presents unique challenges to responders. This half-day course will focus on the basics biological responses to guide you to the proper resources needed to navigate a site or emergency. Participants will be provided a review of biological science basics, an overview of EPA authorities related to biological agent response, related case-studies, and an overview of resources available to responders. Participants will also learn about current technologies, processes, and resources associated with all phases of a cleanup which includes, but is not limited to characterization, decontamination, waste management, verification and clearance, and transition to re-occupancy.

Basic.

W457 The Challenges of Complex Plugging and Patching

Jon Poganski, Pat Johnson, Jacob Poganski

This class is designed to mitigate the most commonly used components for emergency and temporary leak stoppage of liquid or bulk hazardous materials due to punctures, gashes, cracks or surface rotting in most of the common containers. Each student will receive hands on training on at least five different kits.

Intermediate Hazmat Technician or Specialist

2 Hour Classes 1:00-2:45

W251 You've Got Gas! (and the Vapors) - Now What?

Chris Weber

Come take a journey through incident response to gas and vapor emergencies. We'll take a close look at the behavior of chemicals in the air, how to detect their presence, what their various hazards are, and the importance of - and how to - identify them. We will look at actual incidents and use chemical samples to help us understand and plan for the real incidents we're bound to respond to.

Basic.

W252 Tribal Engagement During Oil Spills.

Cindy Murphy, Michael Horn, Yvonne Addassi, John Smith

Tribal Engagement During Oil Spills provides an overview of Section 106 of the National Historic Preservation Act and the 1997 Programmatic Agreement, outlining the process for determining the presence or absence of cultural resources. The course will also explore real-world oil spill case studies, highlighting best practices for Tribal engagement and collaboration in spill response effort.

Basic.

W253 CNG Cylinder Damage Assessment and Render-Safe Tactics

Toby Frost, Gary Sharp

This technician/specialist level workshop will help prepare participants to conduct a damage assessment on compressed natural gas (CNG) cylinders and render them safe if damaged. The workshop will cover CNG cylinder construction, CNG vehicle systems components, multiple system shut-down procedures, damage assessment criteria, system depressurization options, defueling/venting CNG cylinders, and valve override options.

Intermediate. No prerequisites

W254 There is no such thing as "Nerve Gas" Understanding CWAs, their Detection and Decision-Making

Chris Wrenn

This course educates responders about CWAs (Chemical Warfare Agents), what they are, where they come from and the various clues we can use to identify their presence and act accordingly. CWA response is a 5-step process using physical & biological clues coupled with location, classification & identification technologies. In this course responders will learn how to properly layer these clues and technologies to quickly make effective decisions in the case of a CWA incident. This course can include a hands-on scenario based practical session using real instruments.

Advanced. This is a technician level course. One must fully understand and be able to use a variety of gas detection technologies.

Wednesday Afternoon (continued)

W255 Building and growing the relationships for your Joint Hazardous Assessment Team (JHAT)

Robert Dunivin, Michael Hammett

Captain Robert Dunivin and members of the LAFD JHAT unit in conjunction with Sargent Mike Hammett of LAPD's Hazmat Unit will discuss the JHAT concept and utilizing the a JHAT for event specific response for daily hazmat calls as well as the "Big One". The team will discuss the continuing relationship development, training and adapting to new threats, new people and new agencies involved with your JHAT program.

Basic.

W256 Legal Aspects of Fire/Hazmat Response

Alan Finkelstein

This class will provide an overview of the legal ramifications of fire department hazmat response. Among the topics covered will be environmental and workplace regulations, agencies involved, and legal rights and responsibilities. Basic legal concepts will be discussed with case studies presented as illustration.

Basic.

W257 Emerging Tech for Hazmat Teams

Chris Pfaff

During this presentation, we will discuss current and emerging technologies within the world of hazmat. From the lessons I has learned working with his 60-member team in Washington, we will discuss the basic history of his team in relation to training and equipment. We will then move on to some new technologies that have been recently available and emerging training formats that have grown in the past few years. We will then go over an analysis that your team may need and, more importantly, what they may NOT need.

Basic.

2:45-3:15 Afternoon Break

in the Exhibitor Area both inside and outside

2-Hour Classes 3:15 - 5:00

W271 Asbestos Fire Cleanup Procedures-Fires, Floods and the Los Angeles Fires- 2025

Michael Haynes

Emergency Response Professionals and Firefighters Face Exposures. We now know after every Fire, Flood or Earthquake, Emergency Responders continue to face Asbestos hazards in their line of work. An occupational group i.e. ER professionals, Firemen and Law Enforcement continue to overlook the Risk of an Asbestos Exposure, which can lead to illness. Asbestos Containing Materials or Asbestos Containing Wastes Materials are encountered at damaged buildings due to Demolitions, Fires and Construction activities, and Structural damage from illegal Grow/Extraction operations are now added to the list.

Basic.

W272 Transitioning from the Dynamic Operations Phase of an Incident to the Static Mitigation Phase.

Fernando Florez

Clear communication and coordination is necessary for the successful transition from the dynamic phase of an incident to the static mitigation phase. Identifying and working with all stakeholders is important for an efficient and smooth transition. The Los Angeles County Fire Department's Health Hazardous Materials Division will share its vast experience in working with both phases of hazardous materials incidents.

Basic.

W273 Hazardous Materials Modeling and Information Sharing Tools

Toby Frost, Gary Sharp

The workshop will help prepare HazMat technician to employe multiple HazMat/CBRN electronic references simultaneously to plot emergency response distances on a map, wirelessly share information, and support risk-based response decision making. The workshop will focus on free and low-cost apps that are easy-to-use and readily available to all HazMat responders.

Basic.

W274 What's the HeatScore: Planning for Extreme Heat and Smoke for Hazmat Responders

Karen Riveles, Walker Wieland

This class will discuss the combined risk to health of both extreme heat and wildfire smoke and demonstrate OEHHAs new CalHeatScore tool. Hazmat responders in the field can be exposed to both wildfire smoke and extreme heat at the same time and have an increased risk for health effects. OEHHA's CalHeatScore is an extreme heat ranking system that can assist with planning for hazmat responders during operations outdoors who seek up-to-date information about heat risks and resources to keep themselves safe.

Basic

W275 Yes It's True: Downrange Gas and Vapor identification and Quantification with Handheld FTIR

Jeremy VanAuker

FTIR is a standard tool for identifying solids and liquids in hazmat response, but gas-phase identification has been challenging. FTIR provides highly specific spectral data, enabling identification through vast libraries and quantitative analysis in ppm without calibration. However, water vapor and CO interference and sensitivity limitations in handheld systems have hindered its use in downrange operations. This workshop explores new FTIR advancements that overcome these challenges. Through field case studies, participants will learn how FTIR enhances PIDs, multi-gas meters, and colorimetric tubes, improving PPE selection and site remediation for more informed hazmat decision-making.

Basic

W276 The Path Forward: How Hazardous Materials Team Members Can Provide a Useful Service as Consultants

Philip White

This instructor-led course is designed to inform hazardous materials team personnel seeking to work as consultants what they need to do to be successful. Members of hazardous materials teams whether in the public or private service are provided unique opportunities to develop important environmental health and safety knowledge and skills sought after by private industry, government, and the military. In this course attendees will learn how to prepare to become recognized as a subject matter expert and a successful consultant on environmental health, and safety issues.

Basic.

W277 DDR Battery Shipments, Codes and Placarding

Chris Pfaff

Last year, we spoke about the fire code specifically and the challenges of Lithium-Ion batteries. We kick it up a notch this year with a FULL discussion on all of the codes that relate specifically to DDR batteries. This discussion entails fire code, the DOT and PHMSA, Maritime and air transport. Tactical discussions are mixed in with these code challenges to properly prepare all responders for the potential event.

Basic.

Thursday 4-Hour Classes 7:30-11:30

T411 MC306/DOT406 TANKER ROLLOVER RESPONSE or "What happens when they park the truck dirty side up instead of down"

Nick Vent

SD HIRT, EPA, SDFD, and Bomb Arson units learned information to help protect First Responders, protect the public and environment, help develop mitigation tactics and help ensure the safe containment, transportation and recycling or disposal of lithium-ion batteries. We put various battery sizes and chemistries to the test in a real room and conducted all sorts of air monitoring to determine chemicals present, tested exposed PPE/turnouts for contaminants, put battery containers to the test (up to 4 battery packs) and worked with the local bomb arson unit to see what happens when they go off in a real room.

Intermediate. FRO, Techs and Specialists will get a lot out of this course. especially if you have already responded to an incident.

T412 Get to Know Chemical Processes used in Illicit Labs (Part 1 of 2), Part 2 is T451.

Chris Weber

Illicit labs are complex incidents due to the presence of a variety of chemicals, glassware, equipment, and chemical processes. Hazmat responders are typically unfamiliar with these situations which increases the danger to responders and the public. We will explain how these chemical processes work and show chemical processes in action. Students will have the opportunity to engage in recon, air monitoring, sampling, and chemical identification activities at simulated labs running active systems. Come join us to gain real world experience before you find yourself on such an incident. In this part we will focus on drug and CWA labs.

Intermediate.

T413 History of Illegal Drug Labs and Current Manufacturing Trends

NCC Training/NES, Brian Escamilla, Jerry Bucklin

This course provides a broad historical review of Drug Labs in the United States and California specifically. The emphasis is placed on chemicals used, manufacturing methods, hazards that are presented to agency personnel and current trends in illegal manufacturing. The handout provided includes the text and pictures provided during the presentation.

Basic.

T414 Murphy's Law and Laws of Physics as They Apply to the Recovery and Transfer of Cargo Tank Loads of Hazardous Materials, Theory and Practice

Paul Horgan

A practical look at how the laws of physics, physical properties of chemicals effect the recovery methods you should select to offload hazardous materials from cargo tanks or other bulk packages. Looking at both theoretical and practical limitation of package stabilization and securement, product recovery and transfer operations. Looking beyond past just the chemical properties but into how the physical properties of the hazardous materials affect the containment, and transfer operations. Additionally looking at the mechanics of cargo tank recoveries.

Intermediate.

T415 Advanced Radiation for Emergency Response

Carl Palladino, Evan McKenzie, Zhi Zhang, Joe Hurtado

Your awareness and operational level radiation training may not fully prepare you for an actual radiological emergency. You will learn advanced techniques to protect responders and the public, and how to properly respond to and control a radiological emergency. Then you will apply these tools to a simulated emergency response exercise with live, highly radioactive agents-they will make your instruments scream! Bring your radiation instruments to class, if possible.

Advanced.

T416 Improvised Nuclear Detonation Considerations

Chuck Tobias, Sheldon Fung, Bill Potter

Do you know what to do to keep you safety during an Improvised Nuclear Detonation? Our response culture may injure or kill those tasked with being first on scene. California on its own for up to 72 hours, our initial response actions will determine whether we survive or become an additional casualty. This four-hour presentation and discussion will introduce concepts that will give you the best chance at making life saving decisions for you and those we are sworn to protect.

Basic.

T417 Basic CAMEO for HazMat Responders

Tom Bergman

This course covers the basic operations of the 4 CAMEO Suite programs that are routinely utilized during chemical incidents. Participants will use CAMEO Chemicals to obtain SDS-style information for chemicals along with using the associated Reactivity Worksheet to determine potential reactions between identified chemicals. Participants will use ALOHA to examine potential downwind contamination zones and will plot multiple ALOHA plumes onto the MARPLOT program. Also, participants will review using the CAMEOfm program to manage Facility, Resources, and Special Location information.

Basic.

6:30pm — Grand Ballroom "Name that Unknown"

Wednesday evening following the Dinner
Show your understanding and mastery of Field Chemistry, the core of HazMat, by assembling your team and registering online NOW for the 31st year running of the "Name that Unknown" contest.

Establish your agency as top professionals in this field. Bring whatever identification methods or equipment you will need — e.g., your agencies field methods, 5 steps, HazMat IDs, Hapsites, etc. We will provide HazCat® Kits (for use during the contest) to all contestants that do not bring their own equipment. The unknowns will consist of 4 solids and 4 liquids of unmixed products.

Assemble your team and Register NOW!

Team registration information and forms are available online at https://www.hazmat.org under the About Us tab, then down to "Name That Unknown" contest page.

Thursday Morning (continued)

T418 Risk Based Response to CNG Vehicles- The Bomb In Your Back Yard

Christopher Gould

CNG fuel cylinders contain over 24 times the pressure LPG cylinders contain and have unique construction features that cause them to explode during fire suppression activities sending shrapnel up to 3,900 feet away when traditional tactics are used. These vehicles have many inherent hazards which make them dangerous to work around. Without warning these vehicles can engulf civilians and responders in a high-pressure ball of flame often leaving fully pressurized damaged or weaken cylinders behind that require depressurizing. Attendees will be taught how to identify these hazards, safely mitigate fires, rescue victims, and depressurize the remaining damaged cylinders.

Advanced. The student should have a thorough understanding of flammable compressed gas emergencies.

2-Hour Classes 7:30-9:15

T211 Tactical Hazmat Chemistry for First Responders

Patrick A. Ryan, CIH, CSP, CHMM,

Regardless of experience level, team size, or equipment inventory, having a solid, field-deployable understanding of tactical Hazmat chemistry is necessary to succeed as a Hazmat team member and to efficiently achieve scene stabilization. Having a real-world understanding of tactical Hazmat chemistry including field tests and scene stabilization chemistry gives you an edge over the book-smart only crowd. This class will teach you to generate actionable information using simple, rapid tests, and how to translate this information into scene stabilization actions during a Hazmat incident.

Basic.

T212 Hazardous Materials and the Wildland Fire Interface

Pete Jensen

This presentation and discussion is about how hazardous materials can and do become involved during wildland fire incidents. We will show real live examples and encourage sharing of other situations where a hazmat team or member has been needed to evaluate, provide advice or actions to stabilize an incident within the incident or prevent involvement. Should there be a Hazmat Specialist presence in the management team or in the Operations Section? Food for thought. Updated to include some of the incidents in Southern California.

Intermediate.

T213 Expanding Your Gas Toolbox for Hazmat Response

Brandon Gayle

In this session, we will discuss our existing gas toolbox and all the strengths and limitations of our current technologies. Through this discussion, we will see that there are 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. We now have tools at our disposal to better identify our atmosphere and the hazards within. With the addition of these tools, we can identify gases, vapors, and aerosols in a downrange posture.

Intermediate. HM Tech Air monitoring experience

T214 Zero-Hour Hazmat: Precision Tactical Response for Downrange Firefighters

Adam McFadden

It is vital on every hazardous materials emergency scene, we have an incident command system in place to ensure that all downrange - fireground tasks are completed, to safely and effectively mitigate any hazardous material and its effects. This includes critical decisions to perform rescues, or plug leaks and deal with dangerous chemical spills. Focusing on a risk-based response through the chain of command, and utilizing tactical checklists as an Incident Action Plan in a way to identify roles, and tasks to ensure scene downrange objectives are met.

Basic.

T215 Air Monitoring for Lithium Ion Batteries

Chris Pfaff

Multiple studies have been conducted across the world and we now know what batteries release during thermal runaway. Between all this data and research, should your team go out and buy the latest and greatest shiny object? Maybe, maybe not. We will discuss this and ways to begin to quantify the hazards associated with Li-Ion events and the VOC level and limitations we have in the field. We will also briefly discuss some of the discussions that have been occurring for the fire code and community risk reduction in relation to fixed air monitoring capabilities and the community.

Basic.

9:15 - 9:45 Morning Break

in the Exhibitor Area and

Static Displays

Front Parking Lot Area

2-Hour Classes 9:45-11:30

T231 Environmental, Hazardous Materials, Health and Safety Response to homeless encampment community cleanups

Howard Wong, Gonzalo Barriga

What you need to know: What are some health and safety issues encountered? What are some hazardous substances / hazardous materials found during cleanup operations, and how are the materials manifested and disposed of? The course will discuss some operational challenges in response to abating homeless encampments, focusing on health & safety, waste removal, and disposal.

Basic.

T232 Introduction to Air Monitoring

Phillip Solinski

Provide a comprehensive overview on the use of air monitoring instruments for the purposes of health and safety monitoring for hazmat responders; site hazard identification and assessment and community public health assessment. It will provide a look at the differences between air monitoring and air sampling; interpretation of data; tactics for uses of air monitors; and descriptions and uses of instrumentation for chemical identification.

Basic.

T233 You ate radioactive material?! Now what? - An Intro to Internal Contamination

Zhi Zhang, Jose Hurtado

Gain a foundational understanding of internal radiation contamination and its medical countermeasures. Students will learn about pathways of internal contamination, internal radiation associated health risks, detection techniques, and what medical countermeasures are available for treating internal contamination and their limitations. A basic understanding of physiology, and general concepts of radiation and radioactive material is recommended but not required.

Basic.

T234 Fire On The Factory Floor! Rapid Fire & Spill Response for Industrial Facilities

Adam McFadden, Chris Pfaff

In this industrial firefighting tactical response session, the student will increase their understanding of various firefighting and hazmat response tactics when dealing with active hazmat, fire and spill emergencies in commercial or manufacturing facilities. This will include an overview of incident command strategies for factory or plant emergencies, industrial firefighting tactics and objectives for site-fires including water supply, large diameter hose-handling review, tactical ventilation, fire protection and suppression systems shutoffs, hazardous materials risk assessments, fixed facility spill response procedures and dealing with hazardous materials fires.

Basic.

T235 "Tech on the Frontline: Robotics in HazMat Operations"

Richard Thompson

In the rapidly evolving landscape of hazardous materials response, technology is transforming the way incidents are managed. "Tech on the Frontline: Robotics in HazMat Operations" is a cutting-edge course designed to explore the integration of unmanned aerial systems (UAS) and robotic ground platforms in hazardous environments. Participants will gain an in-depth understanding of how drones and robotic dogs enhance situational awareness, reduce responder risk, and improve operational efficiency in chemical, biological, radiological, nuclear, and explosive (CBRNE) scenarios. This course covers topics such as mission planning, sensor integration, data interpretation, and the deployment of robotic technologies in complex environments.

Basic.

4-Hour Classes 1:00-5:00

T451 Get to Know Chemical Processes used in Illicit Labs (Part 2 of 2)

Chris Weber

Illicit labs are complex incidents due to the presence of a variety of chemicals, glassware, equipment, and chemical processes. Hazmat responders are typically unfamiliar with these situations which increases the danger to responders and the public. We will explain how these chemical processes work and show chemical processes in action. Students will have the opportunity to engage in recon, air monitoring, sampling, and chemical identification activities at simulated labs running active systems. Come join us to gain real world experience before you find yourself on such an incident. In this part we will focus on explosive labs.

Intermediate.

T452 BHO and Designer Drug Labs

NCC Training, /Nes, Jerry Bucklin

A basic overview of the processes, chemicals, and packaging of BHO labs and various designer clandestine drug labs. This class will include a one-pot methamphetamine demonstration.

Intermediate.

T453 From Patriotism to Terrorism: Fireworks Identification, Enforcement and Disposal in California.

Bryan Gouge, Nicholas Schroeder, Charles Elder

This course focuses on the many challenges associated with illegal fireworks and explosives identification, enforcement, and disposal in California. The student will gain critical knowledge associated with the identification of fireworks and explosives. Current statutes and regulations associated with enforcement and disposal of illegal fireworks will be discussed, including their journey as consumer goods, hazardous materials, criminal evidence, and hazardous waste. Statewide illegal fireworks seizure and disposal program procedures will be provided to students to assist local agencies with addressing illegal fireworks and explosives in their communities. Case studies will demonstrate the ongoing nexus of fireworks and terrorist bombings.

Basic.

T454 Radioactive Easter Egg Hunt - Radiological Hands-On Exercise

Carl Palladino, Evan McKenzie

This fun, hands-on workshop will focus on proper use of radiological instrumentation, interpretation of readings, conducting experiments to demonstrate nuclear radiation concepts, and simulating a radiological emergency response. Fascinating radiological case studies will also be reviewed..

Intermediate

T455 Derailment Response-Damage Assessment

James Farner, Robert Boyd

Response to derailments with an emphasis on tank car damage assessment and case study.

Intermediate. Hazmat Technician/ Specialist with Tank Car Specialist

T456 Radiation is Everywhere!

Daniel Talbot, Tim Murphy

Take a journey with me into the world of radioisotopes. What are the "hot" topics concerning radiological incidents within your AHJ, what instruments to consider, and some limitations you might want to know. We will also be discussing the Chernobyl explosion and the impact it has had to the surrounding areas..

Intermediate.

T457 Haz Mat Command-Setting Up for Success, Avoiding Pitfalls & Leading From the Front

Daniel Talbot, Charles Tobias

The goal of the class is to provide students with real-world information concerning the management of hazardous materials incidents. The course will cover pre-incident preparation, managing the event, and avoiding common pitfalls. The points illustrated during the lecture will be reinforced during multiple case studies based on actual hazardous materials emergencies. The instructors combined have over 60 years of experience in the fire service. In addition, each instructor has managed multiple significant hazardous materials events.

Basic.

T458 Assistant Safety Officer-Hazardous Materials Part 2 of 3

Michael Mudgett, Brad Haldeman

Day 2 of 3 This course is `mini-track` connected to Tuesday Component Z801, and Friday F412. This course in hazardous Materials response for the Assistant Safety officer complies with the requirements for the state California`s Hazardous Substances Incident Response Training Education Program (Gov. Code Section 8574) CCR Title 8-Section 5192 (q) CCR Title 19-Section 2520.

Advanced. Hazardous Materials Technician/Specialist must attend all sessions to receive State Certifications.

Thursday Afternoon (continued)

2-Hour Classes 1:00-2:45

T251 Improvised Explosive Devices-First Responder Awareness

Sheldon Fung, Nick Concolino

The class will briefly cover the types of explosions, the effects of explosions and their danger to 1st responders followed by the components of an Improvised Explosive Device (IED) and the various ways they can be initiated. Numerous inert IEDs and videos will be utilized to illustrate the above. Safety guidelines for the first responder will be discussed.

Basic.

T252 Foreign Labeled Pesticides at Marijuana Grows and Other Emerging Threats

Hasti Javid

Regulatory staff and LE personnel are coming across illegal foreign-labeled pesticides at marijuana grows throughout California. These illegal products consist of carbamates, organophosphates, pyrethroids, fungicides, and other highly toxic pesticides, many of which are being used as fumigants. This presentation will provide an overview of what these illegal products look like; what they consist of; what to look out for during eradication operations; PPE and operational considerations; and emergency removal/ disposal options. This presentation will also include a brief overview of other human health and environmental threats commonly encountered during marijuana eradication operations.

Basic.

T253 MacGyver Gas Detection Getting out of "sticky" gas/ vapor detection situations using the sensitivities and cross-sensitivities of common sensors

Chris Wrenn

This course reviews the sensitivities and cross-sensitivities of the most common sensors used in confined space entry and HazMat including O2, LEL, CO, H2S & PID. It discusses how to overlay the responses of ALL your sensors to come to the right conclusion because sometimes the clue to what is really going on is shown in unexpected places. It uses simple examples of real-life incidents to show how sensors can be "fooled" and how to interpret this "incorrect" data and reach a correct conclusion using all of the clues present from the scene and from the sensors available.

Intermediate.

T254 Respiratory Protection Standard-What it is and How to Comply

Nick Vent

This course addresses general respiratory hazards, i.e. air purifying vs. atmosphere supplying, and how to determine which is appropriate to use. Discussion includes the revised federal/state respiratory standard and an update on revisions to 29 CFR, 1910.134. Letters of interpretation from OSHA providing clarification and a fill-in-the-blank respiratory protection program both available to participants will ensure compliance. We will discuss how to get your facility into compliance if you are not sure how.

Basic. Best suited for those that are responsible for their department or companies Respiratory Protection Programs

T256 "Size Me Up?" Your Initial Size Up Matters

Ken Loo

This workshop will paint the initial pictures of real HazMat Incidents and allow attendees to give an enroute, on scene, and update report as the picture emerges from the haze of unknown scenes. Attendees will see a snap shot of an incident and slowly see the picture as they gain insight into the C.A.N. reporting system and how to classify events as dynamic or static, escalating or de-escalating, and when to take an operational pause (a.k.a. taking a breath) for longer duration events. Target Audience: First Responders, L.E.O., Firefighters, Company Officers, and HazMat Team members.

Basic.

2:45-3:15 Afternoon Break

2-Hour Classes 3:15-5:00

T271 FBI WMD Case Studies- Dr. Larry Ford and James Malcolm

Sheldon Fung

The course provides 2 WMD case studies the FBI conducted that involved Hazmat, Public Health, Bomb Squads, the FBI`s WMD team, and overseas intelligence operations.

Basic.

T272 Beyond the Hot Zone: Building Mental Fortitude & Leadership in Hazmat Response

Adam McFadden

Hazardous materials incidents and Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) responses place immense physical and psychological demands on firefighters and Hazmat technicians. This course will discuss the critical intersection of operational leadership, mental health awareness, and human behavior during high-stress Hazmat events. Through interactive discussions, case studies, and practical exercises, attendees will gain insights into fostering a resilient mindset, leading teams with confidence, and prioritizing health and wellness in the demanding field of Hazmat & CBRNE response. This course is essential for those seeking to enhance their leadership capabilities and support the well-being of their teams in high-risk operations.

Basic.

T273 Harmful Algal Blooms (HABs) and Other Biohazards for First Responders

Shannon Murphy, Karen Odkins, Corinne Gibble

Students will learn how to recognize and report potential harmful algal blooms (HABs) in marine and freshwater environments. This course also addresses how to minimize HAB exposure during field work through safety precautions, including appropriate personal protective equipment (PPE), and how to report a potentially HAB-related illness in humans or animals. Other biohazards that are likely to be encountered by hazmat responders in the field will also be included and discussed. Course instructors are HAB and emergency response subject matter experts representing several California state agencies. This course will include a combination of lectures, case studies, and hands-on exercises.

Basic.

T274 Hazardous Communications Standard (29CFR 1910.1200) Updates and how to conduct training

Nick Vent

The Hazard Communications standard is constantly being updated. Labels do not look the same. Pictographs are now included to make the US compatible with the rest of the world to a degree. We will go over all of the changes and I will even leave you with an electronic version you can use for your own updated HazCom Plan. OSHA does cite departments for non-compliance with the standard. Come find out if you are in compliance and how to train your responders with the standard.

Basic.

T276 Research-What is It and Why Do We need It?

Alan Finkelstein

This session will demonstrate computer-based research capabilities using a variety of free and proprietary software, both currently available and in development. There will also be a discussion on integration of software research with other modalities.

Basic.

Friday 4-Hour Classes 7:30- 11:30

F411 Confined Space Operations and Rescue

Sean Bidabe

The Confined Space Operations and Rescue course is a four-hour, participant-centered, instructor-led training program. This program is intended to provide participants with advanced information for confined space responses plus hands-on practice using rescue equipment. Topics include confined space regulations and standards, PPE, hazard isolations, monitoring and detection devices, ventilation techniques, and retrieval systems.

Basic

F412 Assistant Safety Officer- Hazardous Materials Part 3 of 3

Mike Mudgett, Brad Haldeman

Day 3 of 3 This course is `mini-track` connected to Tuesday Component Z801, and Thursday T458. This course in hazardous Materials response for the Assistant Safety officer complies with the requirements for the state California`s Hazardous Substances Incident Response Training Education Program (Gov. Code Section 8574) CCR Title 8-Section 5192 (q) CCR Title 19-Section 2520.

Advanced. Hazardous Materials Technician/Specialist Will need to attend all sessions to receive a certification

F413 Ready for Mercury: The Do's and Don't's of Mercury Spill Response

Thomas Aguilo, Tara Womack

In this course, students will learn the basics of responding to a mercury spill from initial response to cleanup to final clearance. Students will learn how to mitigate the hazards of mercury, how to properly screen and monitor for mercury vapor, and equipment and supplies commonly used in mercury spill cleanups. The course will include lessons learned from mercury spills encountered by U.S. EPA Region IX and will also include hands-on experience with mercury cleanup materials and mercury vapor analyzers.

Basic.

F414 Low Search Score, Now What?

Brandon Gayle

Teams have been utilizing FTIR and Raman for years. How do we confirm the results? As responders, 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 more in depth at confirming the results of FTIR and Raman. Always striving for three "proofs" for confirmation is best practice with any sample. 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.

Intermediate. HM Tech FTIR/Raman experience

F415 HazMat Officer- Strategies and Tactics- Are you Ready?

Toby Frost, Gary Sharp

From the initial IAP to Site Safety plan and everything in between, a lot has to happen quickly. HazMat Officers need to develop a quick, street-level, incident action plan (IAP) for small to large HazMat incidents. Topics include gaining situational awareness, analyzing the incident, setting incident priorities, establishing response objectives, recommending a strategy to the IC, and selecting tactics. From the initial IAP, to research, through successive IAPs you will have the battle board, forms, and tools to make it successful, and the practice to make them work with a simple repeatable process. Are you ready for the next one?

Intermediate.

F416 California Pipeline Emergency Response Initiative

Jim Hosler, Wendy Collins, Philip Oaks

The CAL FIRE – Office of the State Fire Marshal (OSFM) Pipeline Safety Division and the National Association of State Fire Marshals (NASFM) are proud to be working together to help train first responders and others on how to safety and effectively respond to and mitigate pipeline related incidents. Using the 3rd edition of its nationally acclaimed Pipeline Emergencies Training Curriculum, in conjunction with local expertise from CAL FIRE OPS, NASFM.

Intermediate.

Follow us on Linkedin: https://www.linkedin.com/in/the-continuing-challenge-77047631b/

F417 What is Unified Command, and How Do I Navigate It?

Daniel Talbot, Timothy Murphy

Due to overlapping legal responsibilities, hazardous materials incidents are multi-jurisdictional. Understanding the ins and outs of Unified Command can mean the difference between success or failure. This course will provide instruction on when agencies should enter into Unified Command and the responsibilities of the Unified Commanders. Furthermore, this course will provide information concerning the benefits and pitfalls of Unified Command. Students will have an opportunity to write incident objectives for several multi-agency, multi-jurisdiction incidents.

Basic.

F418 We All Live in a Haz Mat Submarine

Kim Fletcher

This fun, interactive and informative course will help you see how you relate to other people and how that impacts on the agility and effectiveness of your team. We will be using a self-scorable FIRO-B - an instrument that gives you insights on your interpersonal needs and how they affect your communications and interactions with others. You'll learn about your Three Amigos: Inclusion, Control and Affection and how they help you answer the question: why the heck did you do that? This course is particularly good for intact teams and for people who work together frequently.

Basic.

2 hour Classes 7:30- 9:15

F211 Pesticide HAZCOM and DPR Guidelines for HAZMAT Response to Pesticide Exposures

Harvard Fong

Course will define pesticides and their various sub-classes, provide understanding of labels and their subsections, including toxicity categories (Signal Words) and formulations, cover basic toxicology of pesticide sub-classes, and present suggested guidelines for responding appropriately to different pesticide exposure events, both rural agricultural exposures and urban structural fumigations. Students will have a better understanding of the factors influencing the severity (and sometimes lack of severity) for pesticide exposures and the potential routes that different pesticides may or may not be able to cause exposure.

Basic.

Friday Morning (continued)

F212 Marijuana Cultivation Awareness: Safety Issues for First Responders and Hazardous Materials Teams

Philip White

This instructor-led class is designed to inform hazardous materials team personnel how they can support first responders and law enforcement who encounter legal/illegal marijuana cultivation facilities while responding to emergency incidents. Because health and safety regulations have not kept pace with the legalization of marijuana cultivation, unregulated quantities of toxic chemicals used as herbicides, insecticides, rodenticides, antimicrobial agents, and bio pesticides are commonly encountered at cultivation sites.

Basic.

F213 Shoreline Cleanup Assessment Technique (SCAT) procedures in an Oil Spill Response

Craig Haffner, Nita Barve

In this course students will gain an understanding of the Shoreline Cleanup and Assessment Technique (SCAT) procedure and how it is used in an oil spill response.

Basic. Basic understanding of the Incident Command System (ICS)

F214 FOURTH GENERATION AGENTS (FGA)

Alex Efros

Standard protocols on recognizing FGAs, treating and protecting yourself from nerve agent exposures. Comprehensive assessment for Law Enforcement, Fire, EMS, HAZMAT and healthcare care facilities incorporating lessons learned and best practices from the United Kingdom incidents.

Basic.

F215 Transitional Area Monitoring for Modern Airborne Threats

Jeremy VanAuker

Traditional area monitors, while effective for VOCs, TICs, and gamma radiation, struggle to name more dangerous threats like CWAs and PBAs. Remote monitoring for CWA detectors is scarce, and aerosolized threats pose identification challenges. New technologies like the MX908 Beacon offer a leap forward, enabling remote operation and prolonged data viewing. This advancement enhances area monitoring, specifically for detecting and identifying vapor and aerosol CWAs and PBAs, addressing the limitations of traditional monitors.

Basic.

F216 What happens when a delivery of Fluorosilicic acid (FSA) doesn't go into the storage tank

Nick Vent

Hazmat incidents happen unexpectedly. This real event occurred during a delivery and brought out problems with the Safety Data Sheet and dangerous properties of the material not pointed out by the SDS. Discussing an incident of this type in a realistic manner will have you thinking and possibly changing your processes. This incident occurred at a water treatment facility and could happen at any water treatment facility that adds fluoride to your drinking water. The incident was well controlled and everyone remained safe.

Basic.

F217 WTF happened and why does it keep happening?!

Paul Christensen, Heather Christensen

Discover the humor in harmonizing your personal relationships. If you feel you are always "In the Hot Seat", this course helps to transform your relationship handling skills into a laughter-infused adventure. Learn to navigate emotional flare-ups, while using humor as your extinguisher. Discuss ideas on how to sync up with your partner through fun activities and gain skills to manage scorching moments with ease and rekindle romance. Embrace this heartwarming ride and strengthen your "thin line" bond with love and laughter! Humor required, helmets are optional.

Basic.

F218 Water Treatment Plant Haz-Mat Emergency Response: what are the common chemical hazards and uses

David LeDuff, Gonzalo Barriga

Haz-Mat Emergency Response to a water treatment plant. What you need to know: what are the commonly used hazardous chemicals/materials at water treatment plants and how are these hazardous chemicals/materials stored and used in the treatment process. This course will discuss some of the industry's most commonly used chemicals, what they are used for in the process for water treatment and familiarize the audience with on-site treatment plant operations staff.

Basic.

Morning Break
9:15 - 9:45

2-Hour Classes
9:45-11:30

F231 Analyzing a HazMat Incident: The Process, Problems, and Avoiding Traps

William Miller

Effective and safe HazMat/WMD response requires the ability to accurately evaluate data, assess hazards and formulate a plan. In this class, students will examine and explore the analysis process as it applies to HM/WMD response. Emphasis will focus on avoiding biases and traps that are too often part of this human endeavor. Unrecognized and unaccounted for, these traps (e.g. misuse of narratives, undetected and ignored data, silent experts, discounting non-conforming data, over simplification) can lead to dangerous black swan events. The instructor will use the response to an actual HazMat incident to illustrate the analysis process and its traps.

Basic.

F232 Leveraging Your Hazmat Team Experience in the Promotional Process

Philip White

This instructor-led course is designed to inform hazardous materials team personnel seeking to promote to higher positions of responsibility in their organizations how they can leverage their hazardous materials team training and experience in the promotional process. Members of hazardous materials teams whether in the public or private service are provided unique opportunities to develop important leadership knowledge and skills used by front line supervisors, mid-management, and executives such as the fire chief. Examples include problem identification, the making of assessments, technical research, action planning, decision making.

Basic.

F233 Lithium Battery Response Tactics Via Road and Rail

Stephen Sitton, Carlos Sanchez

This workshop provides a practical, scenario-based approach to road and rail incident response, with a focus on intermodal challenges. Participants will gain insight into real-world responses, including GrayMar's tactical approach, case studies, and key challenges. The course will highlight essential resources, coordination strategies, and best practices for collaboration between private contractors and federal/state

first responders. Attendees will leave with a deeper understanding of how to effectively mitigate complex incidents involving rail and mixed-container transport, ensuring a more efficient and coordinated response in high-risk situations.

Basic.

F234 Lithium-Ion Fire Investigations & Code Enforcement

Chris Pfaff

Chris will provide a review of the concerns related to the threat of Lithium-Ion batteries during fire investigations. We will have an in-depth discussion on the partnerships that need to continue between investigators, fire suppression and hazmat teams. We also will provide updates in knowledge on how to properly store, track, and catalog lithium-ion batteries post fire for evidence preservation. We will also discuss the flaws within NFPA 921, and possible solutions to historical methods of fire investigation.

Basic.

F235 Field Identification of Controlled Substances - Case Studies from the Field

Jeremy VanAuker

A trend towards increasing potent synthetic and designer opioids, cathinones, cannabinoids, and other substances has affected the ability to detect and identify controlled substances in the field. Synthetic drugs tend towards higher potency, and therefore lower concentration in mixtures. This dangerous combination has fueled a significant rise in overdose deaths, highlighted in the DEA's "One Pill Can Kill" campaign. Learn how synthetic and designer drugs have fueled a trend towards counterfeit pills, a rise in lethal overdoses, and how field detection technology has evolved to keep pace with these trends.

Basic.

F236 Emerging Zoonotic Diseases and the First Responder

Gail Obeso

Today's global, highly mobile society creates a unique opportunity for rapid introduction or re-introduction of zoonotic diseases to our communities. First responders in close contact with impacted populations are especially at risk. Traditional first responders—firefighters, law enforcement officers, emergency medical service providers, USAR teams, public health workers, hospital healthcare providers—are not well trained to recognize the direct or indirect associations between animal health outcomes and human health. Come join the discussion on steps to protect responders and the community they serve.

Basic.

F237 The Darkside of Skin Lightening Products: Monitoring, Detecting and Testing for Mercury Poisoning and Home Contamination

Anya Cross-James, John Beckman

Dangerous amounts of mercury have been found in cosmetics marketed to lighten skin and remove blemishes. These skin-lightening products (SLPs) are manufactured outside of the United States and make their way into California through illegal imports, individuals and e-commerce. SLPs can contain mercurous chloride, which is absorbed readily through the skin. People in the home can be poisoned through contact with the cream user, contaminated items or mercury vapors in air. Health effects range from mild to life threatening. Presenter will discuss the history of SLPs in California, challenges to recognizing the source of inorganic mercury contamination, and home decontamination.

Basic.

F238 Hazmat and the Fire Code- Good Friends

Alan Finkelstein

This presentation will explore ways that your local fire code can be used to help plan for and respond to hazmat incidents.

Basic.

Friday Lunch & Closing Ceremonies:
Grand Ballroom 11:30 a.m. - 1:30 p.m.

Time to thank all of you for being with us this year for our 36th Annual HazMat Workshop

More from the past

Award Winners

Awards Nominations are now being accepted at www.hazmat.org. Under the "About Us" tab, click on "Awards", where you can nominate someone you know for a deserving award!

The William J Patterson Lifetime Achievement Award

2024 - Maria Duazo
2023 - Brad Long
2022 – James Tate
2021 - Workshop Virtual, No Awards
2020 Workshop Cancelled, Covid-19
2019 - Charles Tobias Jr.
2018 - Daniel Keenan
2017 - Jack Fry
2016 - Sonny Maguire
2015 - Rob Born, Rich Martyn,Nick Vent
2014 - Lt. Col. Michael Sather, 95th CST WMD
2013 - Vicky Furnish
2012 - Kelly Seitz, Santa Clara County FD
2011 - James Zeigler, PhD
2010 - Hildebrand & Noll Associates
2009 - Paul Deis
2008 - Michael Rohde
2007 - Michael Brady
2006 - No Award
2005 - John R. Gustafson
2004 - Dale Foster
2003 - John Maleta
2002 - Jim O'Dommell
2001 - Dean Dysart
2000 - Gerald Gray
1999 - Jan Dunbar

The Leo K. Najarian Responder of the Year Award

2024 - No Award
2023 - No Award
2022 – Emergency Response Section USEPA Region IX
2021 Workshop Virtual, No Awards
2020 Workshop Cancelled, Covid-19
2019 - San Diego Regional HIRT
San Diego County HIRT and SanDiego Fire Department HIRT
2018 - Dino Beitz
2017 - No Award
2016- Michael Horn
2015 - No Award
2014 - Todd Thalhamer
2013 - West, Texas Fire Department
2012 - Global Diving & Salvage, Inc.; Kyle Watson, Salvage Manager
2011 - San Bruno Fire & Police Departments
2010 - No Award
2009 - Jeff Carmen
2008 - Charles Tobias
2007 - Carter Davis
2006 - United States Coast Guard
2005 - Los Angeles Police Deparment HazMat Unit
2004 - No Award
2003 - Tom Bass
2002 - Arlington County Virginia Fire
2001 - Richard Martyn
2000 - Sonoma Valley HazMat Team
1999 - No Award

The James H. Meidl Instructor of the Year Award

2024 - Jay Joiner
2023 - Paul Andrews
2022 - No Award
2021 - Workshop Virtual, No Awards
2020 Workshop Cancelled, Covid-19
2019 - Julian Valenzuela
2018 - Todd Burton
2017 - Brad Haldeman
2016 - Randall "RW" Jones
2015 - Christopher Wrenn
2014 - Jim Tate
2013 - Bill Wennhold
2012 - David Ofwono, First On Compliance
2011 - Paul Henlin
2010 - Robert Hill
2009 - Nick Vent
2008 - Jack Fry
2007 - Daniel K. Law
2006 - H. Dieter Heinz, PhD
2005 - Paul Deis
2004 - Jeff Paullus
2003 - Matthew Krimsky
2002 - Charlie Wright
2001 - Michael Callan
2000 - John Bowen
1999 - Maria Duazo & Dan Keenan

The Continuing Challenge Medal of Valor

2002 - FDNY Hazardous Materials Unit

Special Recognition

2010 - Tracy Gidel

The Robert P. Turkington Innovation and Technology Award

2024 - No Award
2023 - Mike Algots, Chuck Tobias, and Kevin Cullison
2022 - No Award
2021 - Workshop Virtual, No Awards
2020 Workshop Cancelled, Covid-19
2019 - The HazMat Guys; Bobby Salvesen and Mike Manaco
2018 - No Award
2017- Safe Environment Engineering
2016 - Cal OES Fire & Rescue Branch Hazmat Section
2015 - Alex Kass
2014 - No Award
2013 - Edwards & Cromwell Spill Control
2012 - Jerry Apodaca, Sacramento FD
2011 - No Award
2010 - HazMat IQ, LLC
2009 - No Award
2008 - No Award
2007 - The Cameo Team of NOAA & USEPA
2006 - No Award
2005 - San Diego County Department of Environmental Health
2004 - No Award
2003 - No Award
2002 - Johnathan Hall & LAPD HazMat Environmental Crimes Unit
2001 - No Award
2000 - Carl Garbarino & Clyde Lansing
1999 - Tim Capehart

Follow us on Linkedin: https://www.linkedin.com/in/the-continuing-challenge-77047631b/

Instructor Index

LEAD INSTRUCTORS

LEAD INSTRUCTORS

LEAD INSTRUCTORS

CO-INSTRUCTORS

CO-INSTRUCTORS

CO-INSTRUCTORS

Workshop Registration Information

EARLY BIRD REGISTRATION OPENS online at: www.hazmat.org

June 2025

COST IS $750

LATE REGISTRATION BEGINS:

August 15, 2025

COST INCREASES TO $850
Due to limited space,
be sure to register right away.

Registration fees include:

- Workshop
- Lunch: Wednesday,Thursday &Friday
- Dinner: Wednesday only

Payments MUST accompany registration.

Meals

Lunch Wednesday Thursday and Friday, and dinner on Wednesday are included in the cost of registration. Join the rest of the attendees at these meals for an opportunity to network with emergency responders from around the world.

On-Site Check-In Room -- Maxi's

Check in to receive workshop materials, class schedule/location, and additional information:

Monday, September 1st
3:00 p.m.-5:30 p.m.

Tuesday, September 2rd
6:30 a.m.-5:30 p.m.
(closed for lunch 11:00-1:00)

Wednesday, September 3rd
6:30 a.m.-5:30 p.m.
(closed for lunch 11:00-1:00)

Thursday, September 4th
6:30 a.m. - 5:30 p.m.
(closed for lunch 11:00-1:00)

Friday, September 5th
7:00 a.m.-11:00 a.m.

REHS Continuing Education Contact Hours available

REHS Contact Hours are available at no charge.
Registered Environmental Health Specialist (REHS) contact hours are available for all classes through California Department of Public Health (CDPH).
Be sure to speak to our REHS/CDPH coordinator during on-site check-in to get registered for your REHS contact hours.
All Continuing Challenge courses count since hazmat is one of the subjects for REHS.

During registration packet pickup, those seeking REHS contact hours must check in with the REHS/CDPH representative who will provide further instructions.

An estimate of REHS hours will be available during your initial check-in with the REHS/CDPH Coordinator. At the conclusion of the workshop, proof of attendance cards from the instructors of each class must be submitted to the REHS/CDPH Coordinator for the certification process.

There will be no charge for the REHS Certificate.

If you have any questions please feel free to email Ginger Hilton at Ginger.Hilton@cdph.ca.gov

Registration Questions?

E-mail info@hazmat.org or
call (916) 433-1688

Why should you create a Member Profile?

It's easy and quick and will help you stay up-to-date about the Continuing Challenge. You will need a member profile to submit forms online at this site.

NOTE: We never sell, give away, or distribute our mailing list in any form.

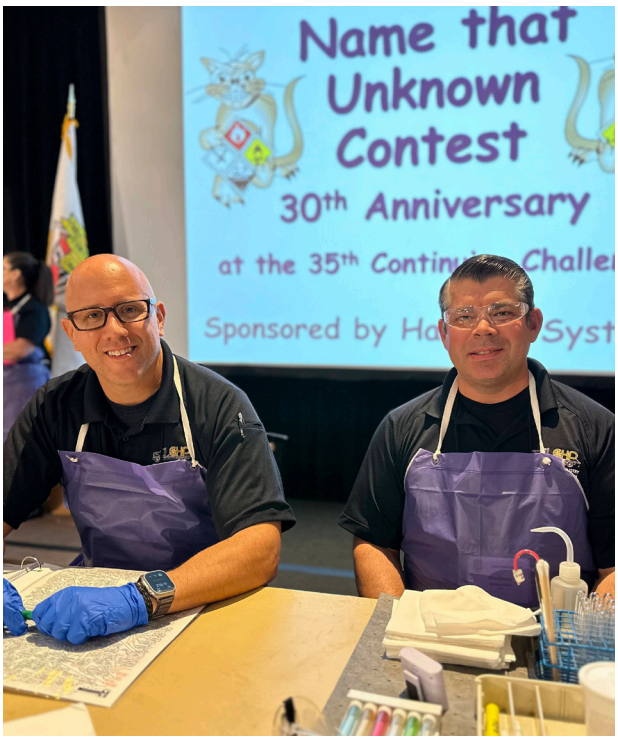
Cancellation & Refund Policy

Registration fees will be refunded (less a $100 processing and administrative fee) for written cancellation requests postmarked no later than August 10th.

- Refunds will not be issued for cancellations made or postmarked after August 10th.
- Refunds will not be issued for workshop no-shows.
- If you are unable to attend and wish to send a substitute you may do so at no extra charge if you provide substitute name and contact information via email at info@hazmat.org prior to August 16, 2025. After that date, substitute must appear in person at the workshop and request the change.

Please note that if you do not cancel and do not attend, you are still responsible for payment.

Continuing Challenge HazMat Workshop



Awards & Photo Contest

Awards Nominations are now being accepted at www.hazmat.org. Under the "About Us" tab, click on "Awards", where you can nominate someone you know for a deserving award!

Robert P. Turkington
Innovation and Technology
Sponsored by
Bauer & Associates

James H. Meidl
Instructor of the Year
Co-Sponsored by
California Specialized Training Institute & California State Fire Marshal

Continuing Challenge
Medal of Valor
Sponsored by
The Continuing Challenge Committee

William J. Patterson
Lifetime Achievement
Sponsored by
Sacramento Fire Department

Leo K. Najarian
Responder of the Year
Sponsored by
California State Fire Fighters Association

The Continuing Challenge HazMat Photography Contest

Enter Our HazMat Photography Contest for a chance to win...

Enter your photo online at www.hazmat.org. Under the "About Us" tab you will click on the "Photo Contest" tab where you will find all the contest rules and be able to enter your photo and information about your photo.

Lodging Information

The DoubleTree by Hilton Sacramento is our Host Hotel

The address of the DoubleTree by Hilton Sacramento is below. The Fairfield Inn Sacramento Cal-Expo-Marriott and the Hilton Sacramento Arden West Hotel are our overflow hotels.

Host hotel
DoubleTree by Hilton Sacramento
2001 Point West Way
(916) 929-8855
or 800-686-3775

Overflow hotel
Fairfield Inn Sacramento Cal Expo-Marriott
1781 Tribute Rd
(916) 920-5300
or 800-321-2211

Overflow hotel
Hilton Sacramento Arden West Hotel
2200 Harvard St
(916) 922-4700

The host hotel for the Continuing Challenge is the DoubleTree by Hilton, Sacramento, California. The Continuing Challenge HazMat room rates are: Single $145 // Double $145

For internet reservations, use our www.hazmat.org website, and go under the workshop tab, then down to lodging there is a link for the DoubleTree. This link will give you the discounted room rate.

Telephone Reservations may be made by calling The DoubleTree by Hilton (916) 929-8855 for the front desk or toll free at (800) 686-3775. Ask for the HazMat "Continuing Challenge" group rate "CDTHAZ".

These Workshop rates will be available until all available rooms are reserved, but no later than August 4th 2025.

Please note: Generally the hotel is sold out 60 days in advance.

Make your reservations now!

The Continuing Challenge Workshop Committee would like to thank all of the great instructors for the best Hazmat training you can receive anywere.

Thank you for attending the 36th Annual Continuing Challenge HazMat Workshop. Your continued support makes it possible to provide high quality training!

We are Looking forward to seeing you in 2026

Save the Date: September 8-11, 2026

Continuing Challenge
c/o Don Braziel
11097 Grenache Way
Elk Grove, CA 95624

These courses are designed for all individuals in the hazmat industry.

The Continuing Challenge Workshop Committee

Dennis Smith, Chair

California Conservation Corps
Melinda Allen
Andy Gordon

California Department of Corrections & Rehabilitation Fire

California Department of Fish and Wildlife, Office of Spill Prevention and Response
Jim McCall
Trisha Taniguchi

California Department of Public Health
Ginger Hilton,
Juan Garcia
Willy Jenkins (Retired)

California Department of Transportation
George Avila

California Environmental Protection Agency (CalEPA)
Jason Boetzer,
John Elkins,
Kristi Placencia
Allison Wilder

CalEPA California Department of Toxic Substances Control
Trevor Anderson,
Alan Ito (Retired),
Nancy McGee,
Ivan Rodriguez
Jason Boetzer

Cal EPA Office of Environmental Health Hazard Assessment, (OEHHA)
Karen Riveles,
Beckye Stanton

California Governor's Office of Emergency Services (Cal OES)

Cal OES, California Specialized Training Institute (CSTI)
J. P. Robles
James Tate,
Paul Andrews

Cal OES, Fire, Rescue & Hazmat Division
Brian Mancebo,
Charles Tobias
Erika Olsen

Cal OES, Law Branch
Sheldon Fung

California State Firefighters' Association
Bob Hamilton

California Highway Patrol (CHP)
Robert (Joey) Daniels,
Benjamin Minick

Enmagine
Paul Penn

Federal Bureau of Investigation (FBI)
Sheldon Fung (Retired)

Hazmat Transportation Consultant
Paul Horgan

Honolulu Fire
Dean Randall, (Retired),
Wes Toniyama (Retired)

Los Angeles County Fire
Kirk Nelson

NES/EHS
Morgan Johnson

Office of Homeland Security
State of Hawaii Department of Defense
Sonny Maguire, (Retired)

Office of the State Fire Marshal (OSFM), State Fire Training
Kris Rose

Roseville Fire
Kevin Cullison

Sacramento County Environmental Management Department
Heather Tanner,
Ryan Artz

Sacramento Fire Department
Don Braziel, (Retired),
Andy Ramos,
Doug Ross,
Dennis Smith, (Retired)
Diana Yates (Retired)

San Diego Fire-Rescue Department
Robert Rezende

United States Department of Homeland Security (DHS), Federal Emergency Management Agency, Region IX
John Woytak

United States Environmental Protection Agency
Greg Bazley,
Rob Wise