## 2023 The Continuing Challenge:

## Batteries can be the cause of many problems





## The 34th Annual

**CONTINUING CHALLENGE** 

**HazMat Emergency Response Workshop** 

The Nation's Leading Hazardous Materials Emergency Response Workshop

September 5-8, 2023

at the DoubleTree by Hilton Hotel Sacramento, California
Online registration opens

In June 2023 @www.hazmat.org

## Thank you Sponsoring Agencies

## **Moving Forward**

The Continuing Challenge HazMat Workshop Committee would like to invite you to attend the 34th Annual Hat Mat Workshop. This year's workshop will be September 5th through the 8th, 2023. There are many new and exciting classes at this year's workshop for you to attend. The classes will include lectures, hands on and outdoor demonstration. This year there has been many railroad accidents with hazardous materials involved. This is just one of many different types of incidents you will face in your career. The Continuing Challenge HazMat Workshop offers the latest and best in training, new products for your review and new techniques and allows you to talk to the manufacturers. The instructors at this year's workshop come from across the country and are the best in the hazmat business.

The workshop provides you with outstanding lunches on Wednesday, Thursday and Friday and on Wednesday night is the Bar-B-Que. The lunches and Bar-B-Que is a time for you to meet old friends and network with your peers. Networking is one of the most important parts of the workshop to get names and phone numbers in case you ever need information from someone who has experienced an incident that you are involved with.

The Workshop Committee is always looking for new and better ways of providing you training so you are well informed to handle many different types of incidents safely. Please join us this September for the 34th Annual Continuing Challenge HazMat Workshop in Sacramento, California. This is a high tech workshop with a kick back attitude. Looking forward to seeing you in September.



Thank You Sacramento **Fire** Department

Dennis Smith. Continuing Challenge Committee Chariperson Fire Chief, (Retired) Sacramento Fire Department

Throughout our catalog you will see Logos from our Committees' Sponsoring agencies. These agencies support our mission to provide safe response training for all emergency responders to hazardous materials

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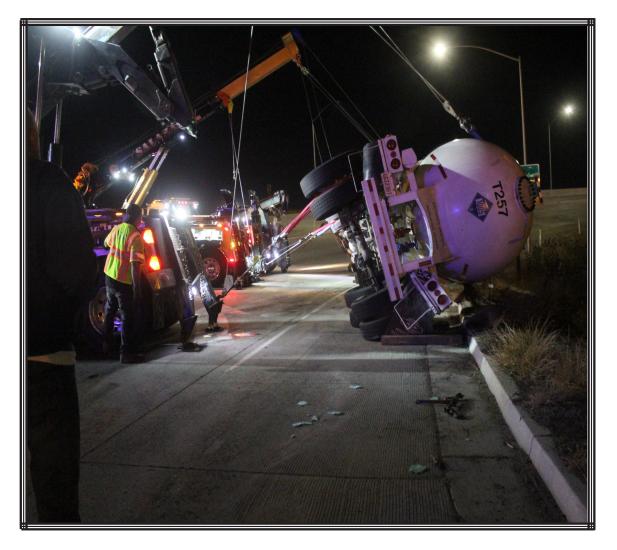
Follow us on Facebook: www.facebook.com /The ContinuingChallenge

Save the Date The 35th Annual

September 3-6, 2024 DoubleTree by Hilton Hotel Sacramento, California



## A Special Mini Track Class, One Day Only



## Live Propane Fire / Propane Emergency

## **Instructor Rob Scott**

The WPGA Live Fire Training school is self-contained. Certified, experienced WPGA firefighters teach the course. We will be demonstrating the flaring of a Propane Transport Tanker that has rolled over and how, if there is leaking, the use of freeze patching to reduce the amount of product released. Each session covers propane's combustion characteristics, system safeguards, valving, and firefighting technique information. The Propane Emergency Class is comprehensive. It is designed to help emergency responders develop the skills necessary to manage a propane emergency in transportation or at fixed facilities. Thursday.

**T417** (Class 1 of 2) Will start outside in front of the Hotel in the morning, (AM) 4 hours

**T456** (Class 2 of 2) Will move inside in the El Camino Rooom for the final (PM)4 hours

## **Workshop At-A-Glance**

Monday September 4	<b>Tuesday</b> September 5	Wednesday September 6	<b>Thursday</b> September 7	Friday September 8
	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: Exhibitor Instructor Student Room - Maxi's 6:30 a.m 11:00 a.m. 1:00 p.m 5:30 p.m.	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: Instructor Student Room - Maxi's 7:00 a.m 11:00 a.m.
	Check in continues after lunch	Check in continues after lunch	Check in continues after lunch	
	8-hour Classes begin 7:30 a.m 11:30 a.m.	General Store Exhibitor Area 7:30 a.m 4:00 p.m.	<b>LAST DAY</b> General Store Exhibitor Area 7:30 a.m 12:00p.m.	General Store - Closed
	Morning Break 9:15 a.m 9:45 a.m. (Classes continue after	Opening Ceremony • Keynote Speaker • Awards Presentation Grand Ballroom	4-hour Classes begin 2-hour Classes begin 7:30 a.m 9:15 a.m.	4-hour Classes begin 2-hour Classes begin 7:30 a.m 9:15 a.m.
	lunch). Lunch is on your own.	7:30 a.m 9:30 a.m.	Exhibitor Displays Open Exhibitor Area 9:00 a.m 12:00 p.m.	
		Morning Break & Exclusive Exhibitor Time Exhibitor Area 9:30 a.m 11:30 a.m.	Morning Break Exhibitor Area 9:15 a.m 9:45 a.m.	Morning Break 9:15 a.m 9:45 a.m.
			4-hour Classes continue 2-hour Classes begin 9:45 a.m 11:30 a.m.	4-hour Classes contin 2-hour Classes begin 9:45 a.m 11:30 a.m.
	<b>Lunch</b> (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.	<b>Lunch</b> Grand Ballroom 11:30 a.m 1:30 p.n
	Check in: Exhibitor Instructor Student continues Room: Maxi's 1:00 p.m 5:30 p.m.	Check in: Exhibitor Instructor Student continues Room: Maxi's 1:00 p.m 5:30 p.m.	Check in: Exhibitor Instructor Student continues Room: Maxi's 1:00 p.m 5:30 p.m.	Closing Ceremor Grand Ballroom 11:30 a.m 1:30 p.m
	8-hour Classes continue 1:00 p.m 5:00 p.m.	Exhibitor Displays Exhibitor Area Open Until 6:00 p.m.	Exhibitor Displays Exhibitor Area Open until <u>12:00 p.m.</u>	
		4-hour Classes begin 2-hour Classes begin 1:00 p.m 2:45 p.m.	4-hour Classes begin 2-hour Classes begin 1:00 p.m 2:45 p.m.	
<b>↓</b>	Afternoon Break 2:45 p.m 3:15 p.m.	Afternoon Break Exhibitor Area 2:45 p.m 3:15 p.m.	Afternoon Break 2:45 p.m 3:15 p.m.	
		4-hour Classes continue 2-hour Classes begin 3:15 p.m 5:00 p.m.	4-hour Classes continue 2-hour Classes begin 3:15 pm - 5:00 p.m.	
bitor, Instructor, & ent Check in				

## **History & Exhibitor Information**

## 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

Exhibitor Index (as of June 12, 2023)

Safeware Inc.

Thermo Scientific Portable Analytical

Advanced Entertainment Technology

Berkeley Nucleonics Corporation

Newson Gale

Curtis

Environics

Gasmet Technologies Inc.

Hazmat Resource

Mallory Safety and Supply

ORTEC - AMETEK RedWave Technology Instruments



**Thank You** California Department of Toxic Substances Control

## **Tuesday**

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

#### Elements of a Course Listing

Course Number & Title

(Note: Letter code indicates the day of week or track.)

1st number indicates the total class hours)

Instructor(s)

Course Description

Course Level & Prerequisites, if any Z801 Hazcat. Classify, Identify and Verify using Wet Chemistry with the Hazcat Kit

Daniel Keenan, Maria Duazo Wet Chemistry is your best tool for assessing the Hazard Classifications and for determining the compatibility of hazardous wastes prior to bulking. Hazcat's system is your best tool for classifying, identifying and verifying hazardous wastes. Learn a strategy to identify the components of commercial formulations and mixed wastes. Attendees will use the new HazCat 2.0.1 System. You can learn the

system 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.

Basic. Haz Mat Technician Module 1A Basic Chemistry, or equivalent, is recommended.

#### Z802 Managing Ethanol and Ethanol-Blended Fuel Incidents Safety Seminar

Joel Hendelman
This course was developed to give first
responders, hazmat teams, fuel transporters,
bulk storage operators, ethanol production
facility operators and other safety personnel with
statutory responsibilities or functional capabilities
at an ethanol-blended fuel incident an in-depth
look at proper training techniques needed when
responding to an ethanol-related emergency. The

- course objectives are:
  •Reviewing Chemical & physical characteristics of ethanol/ethanol blended fuels
- •Transportation modes for ethanol/ethanol blended fuels
- •Transfer operations for handling ethanol/ethanol blended fuels
- Basics of foam operations at an ethanol/ethanol blended fuel incident
- •Suggested responder tactics & strategies
- •Environmental issues, concerns and considerations

Basic.



#### Z803 Ammonia tabletop to demonstrate ammonia and chlorine One Plan CONOPS

Gary Smith, Will Grass, Michael Chapman

ASTI instructors will demonstrate how to use an ammonia and chlorine CONOPS template to create effective hazmat command team coordination with industry and the local emergency manager. The objective is to enhance a faster and more effective containment and control of the chemical release. The CONOPS includes information on how to use the FEMA ChemResponder platform to display ALOHA and IMAAC plume models. ChemResponder will also provide critical information needed by the command and hazmat teams. The CONOPS shows how to utilize critical emergency response information from the industrial response team and the liaison with the local emergency

Intermediate. ASTI trains to the "Tripod" to enhance relations between industry, government, and public safety. Any individual that works for or is associated with a Tripod agency is welcome to attend.

#### Z804 CSTI Haz-Mat IC Upgrade/ Bridge to Haz-Mat IC Pro Board

Daniel Casner

This 8-hour course is for those that want to upgrade their CSTI Haz-Mat IC (16-hour) certificate to a CSTI Haz-Mat IC-PB certificate. Course will consist of Incident Commander refresher concepts and practices and will also include a group project.

Intermediate. CSTI Haz-Mat Incident Commander

## Z805 Propane Response – 101 to Advanced Tactics

Ronald Huffman

Class consists of classroom instruction using on screen presentations, display props and product demonstrations. Topics of discussion include propane properties, when and when not to use some tactical options including rolling/inverting a tank, flaring liquid and vapor, water injection, vehicle orientation, plumbing/piping systems, assortment of tank options/ attachment points, valving, pressure management, transportation options, liquid volume, and temperature control and more.

The students will participate in on scene operations on an assortment of tanks or cylinders that we supply that include, identifying tank volume, liquid and vapor flaring and the use of water as a tactical option

Intermediate. To participate in practical evolutions each student will be required to have the appropriate PPE.

#### **Z806 Tactical Chemistry**

Chris Weber

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 at hazardous materials incidents fall into place using chemical demonstrations, scenariobased exercises, and handson 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.

Basic.

#### **Z807 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.

Intermediate. • This course is designed to provide a foundation for intermediate and advanced users of gas detectors for use in industrial applications such as confined space entry and in HazMat response

•Attendees will gain a basic understanding of how these devices work and the parameters under which they operate properly and poorly.
•Course attendees should leave with a

better understanding of how to increase the speed from detection to decisions. •This one day course covers a lot of ground and unfortunately does not provide for hands-on breakout sessions.

## Z808 Haz-Mat FRA/FRO - Refresher IP Robles

A brief refresher on the basics of Hazmat initial response.

Basic. Initial FRA/FRO certificate

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

Intermediate.

## Tuesdav

#### **Z809 HAZWOPER 8-Hour** Refresher - Regulatory Personnel

Kenneth R. Beutler

Provides refresher training certification for those who have completed initial HAZWOPER training required to work on hazardous waste sites. The ideal audience is regulators who visit hazardous waste sites to conduct contractor oversight, monitoring, sampling, inspections, and other duties associated with hazardous waste work. [This training fulfills the requirements of CCR 1910.120(e)(8) and equivalent state regulations.] Basic.

Z810 OSHA 5600 Disaster Site

Gary Havner, Gilbert Wong The Disaster Site Worker Outreach Training Program is a training program for Disaster Site Workers who provide skilled support services, (e.g. utility, demolition, debris removal, or heavy equipment operation) or site cleanup services in response to natural and man-made disasters. Specifically, it is recognized that all workers at disaster sites need to be aware of the differences between disaster sites and regular construction or demolition worksites and be able to inspect, don, and doff airpurifying respirators. Also, the program will make management and labor aware that pre-incident training is essential for ensuring disaster site worker safety and

Basic. The class prerequisite is either an OSHA 10 in General Industry or Construction.

#### **Z811 CSTI Instructor** Recertification

Vance Bennett, Krystal Masalta Are you a CSTI certified instructor who has been de-certified because you didn't teach the required 4 hours a year? If so, you can get re-certified by taking this class.

Basic. Must have been a CSTI certified hazmat instructor.

#### **Z812 The Meter Guys When Meters Matter! Air Monitoring for** Responders

Scott Russell, Ben Bosley, Dan Warchol The Meter Guvs When Meters Matter! Air Monitoring for Emergency Responders 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!



Thank You California **Conservation Corps** 



2012 CCC Crew



**Awards Nominations** for 2024 are being accepted now at hazmat.org, under the about us tab. Nominate someone you know today for that special award.



**Thank You** California Department of Corrections and Rehabilitation



Thank You Global Vision Consortium

## **Wednesday Morning**



## Opening Ceremonies 7:30-9:30 Keynote Speaker Robert Rezende

Robert Rezende is a Battalion Chief for the San Diego Fire-Rescue (SDFD) Department with 16 years of service. Chief Rezende holds a bachelor's degree from Penn State University and two master's degrees from San Diego State University in Exercise Physiology and Nutritional Sciences. Chief Rezende is currently assigned to Special Operations as the Hazmat Program Manager. He is a CSTI Hazmat Instructor teaching first responders and hazmat technicians in the public and private sectors throughout California. He has been a proud member of SDFD Special Operations since 2008 as a member of the FEMA Urban Search & Rescue Team, Technical Rescue Team, Hazardous Incident Response Team, and the US Forest Service's All Hazard Incident Management Team.



CALIFORNIA DEPARTMENT OF TRANSPORTATION

Thank You California Department of Transportation

# 9:30 - 11:30 Break time and Exclusive Exhibitor Time, Both Inside and Static Displays Outside

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

As you know, the Exhibitors that participate at the Continuing Challenge bring the latest, greatest products to the workshop for your review. 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.

## The Continuing Challenge Awards Presentation

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



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



Don't forget to nominate that deserving person for an award.

## **Wednesday Afternoon**

## **4-Hour Classes** 1:00-5:00

#### W451 Mercury Response

Eric Nold

Mercury response will be a 4 hour class that will instruct participants on the unique properties of mercury that cause responders to make many common mistakes that can exacerbate mercury releases. Tricks of the trade over years of experience will be relayed and expanded upon.

Intermediate. general hazmat response awareness

#### W452Practical Hazmat Chemistry for First Responders

Patrick Ryan

Regardless of experience level, team size, or equipment inventory, having a solid, deployable understanding of practical Hazmat chemistry is necessary to succeed as a Hazmat team member. Having a streetsmart, practical, real-world understanding of Hazmat chemistry gives you an edge over the book-smart only crowd. Such an understanding enables you to recognize what makes instrumentation work and be able to generate actionable information using simple, rapid tests, and procedures during a Hazmat incident. You will leave this class with immediately deployable Hazmat chemistry skills to take home to your team, along with a confidence you did not have when entering.

Basic.

#### W453 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.

#### W454TRANSCAER LNG Safety & Emergency Response Training

Scott Walden, Joel Hendelman Center for Liquefied Natural Gas (CLNG) and TRANSCAER present LNG Safety & Emergency Response Training. Through this course, attendees will gain an understanding of the basic safety and

response considerations for emergencies involving the potential or actual release of liquefied natural gas.

Basic.

## **2 Hour Classes** 1:00-2:45

#### W251 Raiders of the (un) Secured Source (ROSS)

Juan Garcia, Tanya Ridgle The instructors will provide an overview of the FEMA Radiological Operation Support Specialist (ROSS) program. Topics will include what tasks a ROSS can perform and the necessary requirements to get certified. Some examples of data products ROSS will be evaluating to provide briefings or recommendations to Incident commanders or elected officials will be presented and discussed.

Tanya Ridgle, a health physicist from LA County and a certified ROSS, will present on what a ROSS could have been used for in the case of the Australian lost source from January 2023.

Basic.

#### W252 Access/Personal Liability in **Environmental Response and** Investigations

Ylan Nguyen

This course will focus on concepts related to access for use in environmental response and investigations, including general access authorities, scope of access, means of access, civil access verses criminal access, and consent to access. This course will also address concepts related to personal liability for officials engaged in environmental response and investigations in the criminal and civil context, such as torts, statutory violations, and constitutional violations.

Basic.

#### W253 Blowing Up Can Ruin Your Whole Day: Understanding the Options for Detecting and Measuring Combustible Gases

Chris Wrenn

Combustible gases and vapors are one of the most common gaseous threats for HazMat responders. However, many responders don't fully understand how their combustible gas sensors operate and what their limitations are. This course will discuss the operation and limitations of Wheatstone bridge catalytic bead LEL sensors, infrared combustible sensors, thermal conductivity combustible gas sensors, dilution fittings and even using Photoionization Detectors (PIDs) for assessing combustible environments. It

will help you understand when to trust and use each technology.

Intermediate. •This course is designed to provide a foundation for intermediate and advanced users of gas detectors for use in industrial applications such as confined space entry and in HazMat response. Attendees will gain a basic understanding of how these devices work and the parameters under which they operate properly and poorly. Course attendees should leave with a better understanding of how to increase the speed from detection to decisions.

#### W254Hybrid Decontamination **Awareness**

Frank Roberts, Corey Collings Hybrid Decon will allow you and your team to conduct decon using the newest technologies, save time, personnel, logistics, and space in your compartments. Hybrid Decon can be used in all temperature ranges and this course will teach you how to reduce or eliminate water usage and waste. Solids, Liquids and Gasses all pose unique decon challenges and cannot be treated the same! Learn why Synthetic Opioids, TICs and TIMs, BWAs and Unknowns should not be spread or liquified on skin. Chemical and Physical properties can pose individual challenges and should be a consideration on type of decon setup.

Basic. HazMat Technician is recommended

## W255Incorporating Isotope Identifiers into Basic HazMat

Jordan Malacaman, Mark Slattery The ability to transmit spectral data in real time via the use of bluetooth and WiFi protocols has changed the landscape of radiological response for first responders. In this course, Berkeley Nucleonics intends to teach how non-HazMat personnel may engage with isotope identification and data transmission in the field when a radiological / hazmat event occurs. The course is taught through the perspective of BNC's own RIIDs, the SAM 950 and SAM 940+, but the protocols and controls therein can be applied across a wide variety of instruments found in the field.

Basic.

#### W256 You're the First on the Scene at a Propane Incident and Have Nothing to Work With, or Do You?

Ronald Huffman

What will this course provide? We intend to provide you with tactical and operationally achievable response options for a propane incident even if you don't have specialized propane response equipment. As a firefighter you have the potential to be dispatched to something

## **Wednesday Afternoon (continued)**

new or a call you don't have specialized equipment for. What happens when you're the first department on scene to a propane incident and have nothing to work with? During this program we'll discuss tactical options for just such an incident. You have more than you think, would be my guess. Basic..

## 2:45-3:15 **Afternoon Break**

in the Exhibitor Area both inside and outside

## 2-Hour Classes 3:15 - 5:00

## W271 HazMat Incident Case Study

Winston Perez

(ER Case Study) Los Angeles County Fire Health Haz Mat responded to a fully engulfed electric vehicle (Tesla) and how the incident was assessed, handled and mitigated and other extenuating circumstances that occurred during the

Case study on Fentanyl incident and BHO labs.

Basic.

#### **W272Drones In Hazmat Response**

Steven Hamilton, Diana Nguyen, Alvin

This course will cover how the LAFD built their drone program and go into detail on requirements for becoming a drone pilot, pertinent FAA regulations and licensing requirements, types of drones, use scenarios, and data management software. In addition, the course will discuss how hazmat meters and thermography can be integrated for use during hazmat incidents. During this class we will demonstrate the use of hazmat meters on the drones.

Basic.

## W273 Getting the Most From Toxic Gas Sensors: The workhorses for detecting toxic gases

Chris Wrenn

Toxic gas sensors are the workhorses for detection of various gases. These sensors are reasonable specific and accurate. This course describes how these sensors work and how their specifications may impact decision-making. It also discusses how they can be fooled by gases to which they may be cross-sensitive. For advanced users, cross-sensitivity can be advantageous particularly when crossreferenced with other technologies like colorimetric tubes and on-scene clues.

This course is designed Intermediate. to provide a foundation for intermediate

and advanced users of gas detectors for use in industrial applications such as confined space entry and in HazMat response.

•Attendees will gain a basic understanding of how these devices work and the parameters under which they operate properly and poorly. Course attendees should leave with a

better understanding of how to increase

the speed from detection to decisions.

W274Flame Spectroscopy Technology for Simultaneous Detection of Chemical and Biological Threats Including Opioids, A Series Agents, and Toxins.

Scott Hartley, Luke Sloan This course will provide an overview of Flame Spectroscopy also commonly referred to as Flame Photometric Detection (FPD) or Atomic Emissions Spectroscopy, which is an important tool that first responders can use to identify trace amounts of chemical and biological materials in gas, vapor, liquid or solid forms. An overview of how the technology works along with various detection examples will be discussed including detection of common HAZMAT materials, Opioids, 4th Generation Agents (Novichok) and CB threats.

Intermediate.

Basic understanding of gas detection Basic understanding of detectors An understanding of chemistry and various common chemical/biological threat materials Basic.

#### W275 HazMat IQ Above the Line/ **Below the Line**

Brett Bigger

The HazMat IQ Above the Line/Below the Line System

is a patented 4-step system to allow responders to size up chemicals in 10 seconds, conduct chemical research in 2 minutes, select the appropriate PPE/ meters, and operate safely in the hot zone. Intermediate<sup>\*</sup>

#### W276 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..



## Shop the Continuing Challenge General Store Hours:

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

Get the latest and greatest

## **Exclusive** Memorabilia

Only available at this year's workshop!



Thank you California Department of Fish and Wildlife

## **Wednesday Evening & Thursday Morning**

## BAR-B-QUE GRAND BALLROOM

6:30рм

Don't miss the fun, food, and networking!



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

Wednesday evening following the Bar-B-Que Show your understanding and mastery of Field Chemistry, the core of HazMat, by assembling your team and registering online NOW for the 25th 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.



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

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

#### **T411 Hazardous Materials Incident Command: Writing** the Incident Action Plan

Daniel Talbot, Timothy Murphy This course will provide participants with the opportunity to assemble an Incident Action Plan (IAP) for a multi-operational period hazardous materials emergency. Students will receive instruction on writing SMART objectives, completing ICS forms, and conducting an incident briefing. Most of the course will be dedicated to writing and reviewing the IAP.

Intermediate. Students should have ICS 200, 700, and 800. ICE 300 and IC Haz Mat are recommended

#### **T412 Advanced Radiation for Emergency Response**

Carl Palladino

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. 8-hours of awareness or operational radiological training

## T413 Advanced Air Monitoring Techniques

Amanda Wagner This 4-hour Advanced Air Monitoring course is designed to instruct participants about planning, designing, and implementing air monitoring instrumentation to effectively monitor for toxic environments from unplanned releases of hazardous materials and during large scale social events (marathons, sports games, dignitary visits, etc.) and for emergency response activities. This course will include discussions on available technologies, selection of appropriate direct reading instruments, proper instrument placement, instrument telemetry and remote monitoring systems (VIPER and CBRN specifically), air sampling and confirmatory techniques including site clearance requirements, and case studies detailing real-life events.

Intermediate.

## T414 Effectively Using the ALOHA Program Before, During, and After Chemical Incidents

Tom Bergman ALOHA is an "air dispersion" computer program that predicts downwind concentrations of dangerous atmospheres for some 850 chemicals. ALOHA also performs a number of calculations that can be a great assistance to first responders, such as "how long will it take for this tank to stop leaking", or "how long will it take for this puddle of chemical to evaporate", or "how much product will remain in the damaged container", and many other items. This course explores many uses of the

ALOHA program, and the appropriate methods to utilize it before, during, and after chemical releases.

Intermediate. Basic CAMEO for First Responders

#### T415 Oil Spills 101

Fred Stroud

Class will provide overview of the Oil Pollution Act of 1990, the National Contingency Plan, and the Federal Role. Presentations will include: oil chemistry for oil spills, description of equipment utilized to contain and recover oil from the waterway, strategies for containing oil, simple containment technology, disposal of recovered oily material, costs associated with oil cleanup, environmental issues associated with oil spills, relevant case study and question and answer time.

Basic.

#### T416 HazMat IQ FRO (First Responder Offensive)

Brett Bigger HazMat IQ FRO will provide first responders with a system to identify hazards, select appropriate PPE, and utilize monitoring equipment to operate safely at a haz-mat incident. The students will be provided with HazMat IQ system, a set of charts, that will help them quickly determine the hazard based on chemical name, placard and labels, or container shape. The charts will also provide information on metering to operate safely as well as PPE selection to operate safely..

Basic.

## **Thursday Morning (continued)**

#### T417 (This is the outside part of T456 )Live Propane Fire / Propáne Emergency!

Rob Scott

This is a 2 part class. The WPGA Live Fire Training school is selfcontained. Certified, experienced WPGA firefighters teach the course. We will be demonstrating the flaring of a Propane Transport Tanker that has rolled over and how, if there is leaking, freeze patching can be used to reduce the amount of product released. Each session covers propane's combustion characteristics, system safeguards, valving, and firefighting technique information. The Propane Emergency Class is comprehensive, It is designed to help emergency responders develop the skills necessary to manage a propane emergency in transportation or at fixed facilities.

Basic

## 2-Hour Classes 7:30-9:15

#### T211 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.

#### T212 Water Treatment Plant Haz-Mat Emergency Response: what are the common chemical hazards and uses

Gonzalo Barriga, David LeDuff Haz-Mat Emergency Response to a water treatment plant. What you need to know: what are the commonly used hazard chemicals/materials at water treatment plants, how are these hazard chemicals/ materials stored and used in the treatment process. This course will discuss some of the industry's most commonly used chemicals and what they are used for in the process for water treatment.

Basic.

Thank you everyone for being with us in 2023

#### T213 Emerging Zoonotic Diseases and the First Responder

Gail Obeso

Did you know that 3 out of every 5 new human sicknesses come from bugs or other animals?

We live in a highly mobile, increasingly global society where an infectious disease outbreak is only a plane flight away. Combine community interconnectivity with climate change and it's only a matter of time.

What can we do as responders to protect ourselves while providing services to our communities in these uncertain times? Come join the discussion on current infectious diseases of concern for our responders..

Basic.

#### T214 Using Water Injection to Mitigate a Liquid Propane Leak and More

Ronald Huffman

Using water injection to mitigate a liquid propane leak and more

Basic.

## 9:15 - 9:45 **Morning Break**

in the Exhibitor Area

## **Static Displays**

Front Parking Lot Area

## 2-Hour Classes 9:45-11:30

#### T231 Building the Plane As We Fly It - Li-Ion Batteries In Practice

Robert Rezende, Robert Salvesen The news has exploded with news of battery incidents lately. No place on Earth has been experiencing more than New York City. Take a journey with the guys who are on the ground handling the incidents, how the process has evolved, what we are currently doing, and where this is going. Plenty of time will be allowed for discussion.

Basic.

## T232 Incompatible Chemicals and What To Do With Them

Michael Pixton

During a response action knowing how to deal with incompatible chemicals can make the difference between a bad situation and disaster. This course will give several examples of incompatible chemicals and discuss how to deal with them

Basic.

## T233 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. and GISO Title 8 Section 5144. Letters of interpretation from OSHA providing clarification and a fill-in-the-blank respiratory protection program will both be made available to participants to ensure compliance. Many students have been newly assigned the duties of respiratory compliance for their agency or facilities. We will discuss how to get into compliance if you are not sure how.

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

#### **T234 Introduction to Exposure** Assessment with Case Studies in Emergency Response

Karen Riveles, Wes Smith

This introductory course will cover the basic concepts of exposure assessment including: exposure media, routes and pathways of exposure, environmental fate and transport, and how to estimate exposure in the general population using monitoring or sampling data. The instructors will also cover the use of Health Guidance Values with exposure data to characterize risk and protect public health and communities with discussion of specific case studies and emergency scenarios from hazardous materials releases such as an oil spill, a refinery release, and a site contaminated by pesticides.

Basic.

#### T235 Legal Aspects of Fire/Hazmat Response

Daniel Wright

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.



## Thursday Afternoon

## **4-Hour Classes** 1:00-5:00

## T451 EFFECTIVE USE OF PORTABLE INFRARED & **RAMAN DETECTORS**

Dana Von Kolen

Infrared & Raman detectors are indispensable to the First Responder CBRN toolbox. They enable rapid classification and or identification of the unknown chemical hazards. Upon completion of the workshop the students will have an understanding of the strengths and limitations of Infrared & Raman technologies..

Basic.

#### T452 Get to Know Chemical **Processes used in Illicit Labs**

Illicit labs are often complex incidents to respond to 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 the 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.

Basic.

## ollow us on Facebook: www.facebook.com/The **ContinuingChallenge**



Thank You California Department of **Public Health** 

#### T453 CAMEO, WISER, Google Earth, Microsoft Office, and **ArcView**

Tom Bertman

Have you ever wished you could use CAMEO to create a "chemical plume" and share that with responders who are using IPhones and Tablets? How about diagram an evacuation area on MARPLOT at the EOC and send it to the field responders as a Google Earth file? This course will instruct participants on a number of effective methods to exchange data and map information between the EOC and the field personnel, between various laptops and other devices, and between different software programs...

Basic. Participants must have a basic knowledge of the CAMEO, EXCEL, and WORD programs. Participants may satisfy the prerequisite by takin the Basic CAMEO for HazMat responders offered at this workshop

#### T454 Battery IQ

Brett Bigger

The Battery IQ course will prepare responders to safely and effectively respond to incidents involving Lithium Ion batteries. The course will prepare students to identify incidents involving Lithium Ion batteries and battery packs. The course will cover incidents involving small devices such as cell phones, mobility devices, electric vehicles, Energy Storage Systems and Solar (Photo Voltaic). Students will receive a Battery response guide that will provide tactics for Lithium Ion battery incidents. Students will also be provided a guide for developing a Battery Response Program in their department. **Basic**.

#### T455 Asbestos Exposure: Fires, Floods, Earthquakes. -Responders Health and Safety

M. Haynes

Emergency Response Professionals and Firefighters Face Exposures. We now know with 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. Now Structural damage from illegal Grow/Extraction operations are added to the list. Basic.

Thank You

Blue Water & Associates

## T456 (This is part 2, the inside part of T417) Live Propane Fire / Propane Emergency

Rob Scott

The WPGA Live Fire Training school is self-contained. Certified, experienced WPGA firefighters teach the course. We will be demonstrating the flaring of a Propane Transport Tanker that has rolled over and how, if there is leaking, freeze patching can be used to reduce the amount of product released. Each session covers propane's combustion characteristics, system safeguards, valving, and firefighting technique information. The Propane Emergency Class is comprehensive, It is designed to help emergency responders develop the skills necessary to manage a propane emergency in transportation or at fixed facilities.

Basic.

#### T457 Enhanced Fuctionality in **CBRN Environments**

John Day

Traditional HazMat ensembles can be hot and cumbersome, but with advancements in PPE there are better options than traditional encapsulating suits. Participants will have the opportunity to personally experience the protection, performance and functionality of the latest CBRN PPE, during an offsite paintball exercise. Transportation will be provided.

Basic.

## 2-Hour Classes 1:00-2:45

#### T251 Assessing Tank Car Tank **Damage**

Charlie Wright

Identifying and interpreting the type and extent of damage to railroad tank cars is critical to analyzing the problem at emergencies involving hazardous materials. Responders to emergencies involving tank cars should be able to identify the different types of tank cars, types of tank damage, and extent of that damage in order to determine the hazards and risks associated with the problem. They should be able to interpret the significance of that damage and tactical options available to address the problem.

Intermediate.



Thank You California **Environmental Protection Agency** 

## Thursday Afternoon (continued)

#### T252 Grace Under Fire: Managing **Crisis Communications** during an Oil Spill

Steve Gonzalez

Steve Gonzalez, Communication Manager CDFW - Office of Spill Prevention and Response (OSPR)

Would you know what to do if your department was facing an unexpected, highly visible public emergency? As OSPR's communications manager, Steve is an expert at coordinating public affairs and managing media in high-pressure situations. He'll explain how the Joint Information Center emergency response model works, including the process of collaborating with multiple agencies and jurisdictions, and provide tips on how you can prepare before a crisis erupts.

Intermediate

#### T253 Field Detection of Pesticides: Suicide, Seizures and Sickness

Jeremy VanAuker Pesticides are becoming a more prevalent problem for hazardous materials responders. Historically organophosphate pesticides have been the culprit in medical emergencies and suicides. Identification of the pesticide is critical to patient treatment and keeping responders safe. 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.

#### T254 When Hazmat Meets the Wildfire Interface

Pete Jensen

This session will share examples of when hazardous materials environments are impacted or were impacted during wildfire events. We will discuss what some of the impacts can be, or were, and mitigation options. This course will also include some tabletop group exercises to practice some of the concepts discussed. Basic.

#### Thank You **Hazmat Transportation** Consultant



## 2:45-3:15 **Afternoon Break**

## 2-Hour Classes 3:15-5:00

#### **T271 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.

## **T272 Hazardous Materials** Monitoring and Instrumentation

Amanda Wagnre

Students will gain overview of equipment and instrumentation used for hazardous materials response and their limitations. Basic.

#### T273 The Joint Hazard Assessment Team Concept

Bob Dunivin

The LAFD operates a successful Joint Hazard Assessment Team (JHAT) to solve the full scope of the intentional or accidental release of chemicals in any form. The JHAT is only effective when assembled with pertinent regional partners from Law, Health, and the FBI. The JHAT assembles in "prevent" and "response" missions. The JHAT actively cultivates regional partnerships full time while constantly evaluating and revising response best practices. This course will provide an outline of proper JHAT partnerships, and challenge students to make contact with necessary partners PRIOR to an incident.

Intermediate. Health te of Califor

Thank You California Office of **Environmental Health Hazard Assessment** 

#### T274 Virtual Reality: Weapons of **Mass Destruction Laboratory** and Equipment Awareness Workshop

Michelle Littlejohn, Caitlin Filippi FBI - Weapons of Mass Destruction Directorate personnel will deliver an interactive workshop where attendees will utilize a novel Virtual Reality computer platform to explore a variety of virtual WMD laboratory environments. Attendees to see, interact with and learn about chemicals, materials and laboratory equipment that might be found in clandestine chemical, biological, explosive or synthetic drug laboratories. Attendees will increase their ability to recognize this equipment and materials and will practice downrange protocols and communication procedures to maintain situational awareness and safety. Due to the interactive nature of this workshop, a small class size is preferred.

Basic.



## Thank You California Specialized Training Institute



Thank You California Governor's Office of **Emergency Services** 

## **Friday Morning**

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

## F411 Bio-101: The Basics Of Biological Response & Cleanup

Mark Durno

The knowledge learned from this introductory course will provide a baseline for responders to evaluate an environmental biological situation. The course will also offer examples of remediation technologies that can be employed to reduce risks of bacteria, toxins, and virus. Lessons learned from case studies will guide the course and will emphasize how to size up a response while working toward clean-up and clearance. The depth of experience and insights garnered by the EPA and its instructors will empower the attendees to have a full understanding of the hazards and risks that are required to successfully respond to biological incidents.. Basic.

#### F412 MC306/DOT406 ROLLOVER **RESPONSE** or What happens when they park the truck dirty side up instead of down

Nick Vent

This course will primarily focus on the needs of the Hazmat team but will also be applicable to the first in Engine Companies that will get the initial dispatch. A DOT 406 tanker will be available during the class to walk around the vehicle to explore what we will have talked about in class.

Basic. This course is meant for FRO, IC and Tech level responders but should not be limited to any one group.



Thank You California State Firefighters' Association

#### F413 Haz Mat Command-Setting Up for Success, Avoiding Pitfalls & Leading From the Front

Daniel Talbot, Chuck Tobias, Timothy Murphy

The goal of the class is to provide students with real-world information concerning the management of hazardous materials incidents. The course will cover preincident preparation, managing the event, and avoiding common pitfalls. The points illustrated during the lecture will be reinforced during two scenarios 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.

#### F414 Virtual Response to Real Life **Hazmat Incidents**

Chris Weber, Dana Von Kolen We will look at actual incidents and involved products and then formulate response objectives including rescue, recon, and mitigation as a table top exercise. Using detection and identification equipment on the chemical(s) involved, we will hone response skills by comparing our response to what actually occurred.

Rasic

#### F415 BioTech IQ

Brett Bigger

Bio Tech IQ provides responders with a simple system to determine the hazards of biological agents as well as the appropriate PPE to respond safely.

Students will use scenarios to "respond" to incidents involving biological agents including bacteria, virus, and toxins. Students will be provided with a Biological Response Guide BRG that will assist with these incidents. Students will be able to research new and emerging biological agents with the provided BRG.

Basic.



## F416 Taking the Mystery Out of the CSTI Pro-Board Accreditation and Process

Daniel Casner, Dennis Slinev CSTI is accredited by Pro-Board! What does that mean? What is now required for Haz-Mat Instructors? Exam evaluations, skill sheets, evaluator scripts, written exams via the CSTI's Learning Management System and so much more; there is a lot to unpack and absorb. This awareness course is to help take the mystery out of the CSTI Pro-Board accreditation and help guide Haz-Mat Instructors towards the future of Haz-Mat education, instruction and certification.

## F417 Fentanyl and other Designer

Brian Escamilla, Jerry Bucklin This course provides a broad historical review of drug labs in the United States and California specifically. Emphasis is placed on chemicals used, popular manufacturing methods, hazards that are presented to on-site personnel, and current trends in illegal manufacturing. The dangers of fentanyl, highly toxic synthetic opioids, and diversion of veterinary drugs will also be addressed. Basic.

F418 Congrats on Your Promotion-Now Here is the Program-Good Luck

Pete Jensen

You have just been promoted and they have given you the hazmat program to run. You have never run a full function program before, nor have they trained you for it. This session will touch on most facets of running/managing a hazmat program. We will discuss concepts from the NFPA 475 guidance document and mix in some real life examples of lessons learned from the instructor's experience over his 33 year career, along with the many group examples. There will be an open forum discussion on topics from training, to R & D, to purchasing to incident management.

Intermediate.

#### F419 Radioactive Easter Egg Hunt - Radiological Hands-Ön **Exercise**

Carl Palladino

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. Several fascinating radiological case studies will also be reviewed.

Basic.

## **Friday Morning**

## Friday 2-Hour Classes 7:30-9:15

## F211 Behavioral Health Mayday: First Responder Behavioral Health **Awareness**

Richard Alamo, Susan Feenstra This course raises awareness of the behavioral health impacts of being a first responder. Critical incidents are explored, occupational and personal stressors are identified, and opportunities for positive self-action are introduced. This training further strives to reduce the stigma of seeking help for behavioral and mental health issues and reconfirms that seeking support is a sign of strength - not of weakness.

Basic.

## F212 Research-What is It and Why Do We Do it?

Alan Finkelstein

This session will demonstrate computerbased 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.

#### F213 Data-Driven Emergency Response

Solana Foo

During an emergency response there are a lot of moving parts. Keeping everyone on the same page is essential. Online dashboards, web maps, and visualization tools provide a central location for viewing operational data. They can share real-time progress metrics and field data, promote worker safety, and get managers important information for planning. In this course we'll share how we've applied these tools in large-scale wildfire responses, train derailments, battery fires and mercury responses. We'll cover the entire workflow-from collecting data in the field to sharing it on internal and external dashboards and viewers. No prior knowledge of technology needed. Basic.

> 9:15 - 9:45 **Morning Break**

2-Hour Classes 9:45-11:30

#### F231 Marijuana Cultivation Awareness: Safety Issues for First Responders and Hazardous Materials Teams Philip White

This instructor-led course 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 sights. .

#### F232 How to Work With Your Local Trauma Centers During a Field Hazmat Event

Kathryn Ann Dollarhide At the end of this demonstration/lecture the participant will learn how one local Long Beach City works in a HAZMAT coalition. The presenter will describe how hospital staff are trained, discuss regional decontamination drills and inter agency cooperation. Multi agency drills will be discussed as an opportunity to train field response teams with hospitals. Examples of drills will include templates on Purified Air Powered respirators and Mark- 1 Duodote compentencies for non traditional first responders. This presentation will also discuss communication and planning for rave drugs, fentanyl and meth exposure in the field.

Basic.

## F233 Who's Afraid of the Dark -Public Health, Emergency Response, and Community **Engagement in Mercury** Response and Exposure Reduction Activities From Skin Lightening Creams

Lori Copan, Anya Cross Mercury exposures from skin lightening creams has led to serious illness and hospitalizations in users of these products and in their young children. This course will focus on the range of experience the CDPH Environmental Health Investigations Branch (EHIB) has with responding to mercury incidents within an environmental public health framework. Participants will learn about interesting cases of mercury poisoning, the mutually beneficial collaborations with emergency response agencies, and innovative approaches for working with responders and community-based organizations to stem the availability of mercury-containing products.

Basic.



Thank You California Department of Corrections and Rehabilitation Fire





## **Pictures from the Past**



Thank You Office of Homeland Security State of Hawaii







Thank You California State Fire Marshal





**SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT** DEPARTMENT (EMD)

Thank You Sacramento County Environmental Management Department





Sacramento Area Firefighters Local 522 Honor Guard



## More from the past



Thank You Federal Bureau of Investigation



# **FEMA**

Thank You United States Department of Homeland Security



**Thank You** California Highway Patrol

Follow us on Facebook: www.facebook.com/The ContinuingChallenge



## **Instructor Index**

## **LEAD INSTRUCTORS** Name ......Course number Richard Alamo.....F211 Eric Bald See Amanda Wagner......T272 Gonzalo Barriga.....T212 Vance Bennett ......Z811 Tom Bergman ......W453, T453, T414, Kenneth R. (Ken)Beutler.....Z809 Brett Bigger...... W275, T454, T416, F415 Daniel Casner.....Z804, F416 Lori Copan .....F233 John Day ...... T457 Kathryn Ann Dollarhide ......F232 Bob Dunivin.....T273 Mark Durno .....F411 Brian Escamilla .....F417 Alan Finkelstein.....T211, F212 Solana Foo ......F213 Sheldon Fung ...... T271 Juan Garcia.....W251 Steve Gonzalez .......T252 Steven Hamilton ......W272 Scott Hartley......T456, T417

LEAD INSTRUCTORS		
Name	Course number	
Gary Havner	Z810	
M HAYNES		
Joel Hendelman		
Ronald Huffman	Z805, W256, T214	
Pete Jensen	T254F418	
Christopher Johnston	T274	
Dan Keenan	Z801	
Jordan Malacaman	W255	
Ylan Nguyen	W252	
Eric Nold	W451	
Gail Obeso	T213	
Carl Palladino	T412, F419	
Winston Perez	W271	
Michael Pixton	T232	
Robert Rezende	T231	
Karen Riveles	T234	
Frank Roberts	W254	
JP Robles	Z808	
Scott Russell	Z812	
Patrick A Ryan	W452	
•		

#### **LEAD INSTRUCTORS**

Name	Course number
Gary Smith	Z803
Fred Stroud	T415
Daniel Talbot	T411, F413
eremy VanAuker	T253
Nick Vent	T233, F412
DANA VON KOLEN	T451
Amanda Wagner	T272, T413
Scott Walden	W454
Chris Weber Z806	, W276, T452, F414
Philip White	F231
Chris Wrenn	Z807, W273, W253
Charles Wright	T251
Daniel Wright	

#### **CO-INSTRUCTORS**

Name	Course number
Tom Bergman	W453
Ben Bosley	Z812
Jerry Bucklin	F417
Michael Chapman	Z803
Corey Collings	W254
Nick Concolino	T271
Anya Cross	F233
Alvin Dong	W272
Susan Feenstra	F211

## **CO-INSTRUCTORS**

Name	Course number
Caitlin Filippi	T274
Will Grass	Z803
Dan Guillory	T212
Joel Hendelman	W454
David LeDuff	T212
Krystal Masalta	Z811
Timothy Murphy	F413, T411
Diana Nguyen	W272
Tanya Ridgle	W251

#### **CO-INSTRUCTORS**

Name	Course number
Robert Salvesen	T231
Mark Slattery	W255
Dennis Sliney	F416
Luke Sloan	W274
Wes Smith	T234
Chuck Tobias	F413
Dana Von Kolen	F414
Gilbert Wong	Z810





## **Workshop Registration Information & CEUs**

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

The Middle of June 2023 **COST IS \$650** 

#### **LATE REGISTRATION BEGINS:**

August 16, 2023

**COST INCREASES TO \$750** Due to limited space, be sure to register right away.

Registration fees include:

Workshop Lunch: Wednesday-Friday Dinner: Wednesday only

Payments MUST accompany registration.

## Meals

Lunch Wednesday - 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 5th

3:00 p.m.-5:30 p.m.

Tuesday, September 6th

6:30 a.m.-5:30 p.m.

(closed for lunch 11:00-1:00)

Wednesday, September 7th

6:30 a.m.-5:30 p.m.

(closed for lunch 11:00-1:00)

Thursday, September 8th

6:30 a.m. - 5:30 p.m.

(closed for lunch 11:00-1:00)

United States Environmental Protection

Friday, September 9th

7:00 a.m.-11:00 a.m.



## **Continuing Education Units (CEUs)**

The Continuing Challenge HazMat Committee would like to thank Gary Pirkig who has served as our "go to" for Ems, General, and REHS CEU's for the past several years Gary has been with us since 1999. Unfortunately for us, Gary has decided to pursue other endeavors and will no longer be available to provide his services. Therefore, the Continuing Challenge HazMat Workshop cannot at this time offer CEU's to students.

Again, Thank You

We wish Gary all the best in his future

pursuits.

your years of hard

## Gary Pirkig and the **CPR LifeHouse** Training Center for work and support.



## Registration **Ouestions?**

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 17, 2022. 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 Crew**





2014





2010 CCC Crew







2009

## **Awards & Photo Contest**

Awards Nominations for 2024 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 ofValor

> 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 <a href="www.hazmat.org">www.hazmat.org</a>. 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 \$96 // Double \$96

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 "HAZ".

These Workshop rates will be available until all available rooms are reserved, but no later than August 1th 2023.

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

Make your reservations now!



Thank You Honolulu Fire



Thank you for attending the 34th Annual Continuing Challenge HazMat Workshop.

Your continued support helps us provide the best training possible!

We are Looking forward to seeing you in 2024

**Save the Date: September 3-6, 2024** 



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

## These courses are designed for all undividuals in the hazmat industry.

Our Mission: To provide safe response training for all emergency responders to hazardous materials incidents affecting public health and the environment.

## **The Continuing Challenge Workshop Committee**

Dennis Smith, Chair

Blue Water & Associates Terry Joslin, (Retired)

California Conservation Corps Melinda Allen

California Department of Corrections & Rehabilitation Fire Jesse Corrales

California Department of Fish and Wildlife, Office of Spill Prevention and Response Mike Kirchner, Jim McCall

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

California Department of Transportation George Avila

California Environmental
Protection Agency (CalEPA)
Jason Boetzer,
John Elkins,
Paul Penn (Retired),
Kristi Placencia

CalEPA California
Department of Toxic Substances Control
Trevor Anderson,
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