

HazMat Myths: The Truth Is Out There



Congratulations to Susanne Rohner for winning the 27th Annual Continuing Challenge Photo Contest with the “River of Paint” taken on March 15, 2015



The 28th Annual CONTINUING CHALLENGE HazMat Emergency Response Workshop

The nation's leading Hazardous Materials Emergency Response Workshop
SEPTEMBER 5-8, 2017 — DoubleTree by Hilton Sacramento, California
Registration information enclosed-online registration opens June 1, 2017
@www.hazmat.org

Register for TRANSCAER

The TRANSCAER® California State Team along with the national TRANSCAER® organization, The Chlorine Institute®, and both Union Pacific Railroad and Burlington Northern Santa Fe Railroad have formulated plans to bring a specially equipped Safety Train to Sacramento for this year's Continuing Challenge Hazmat Workshop September 5 thru 8. This special train equipped with a rolling classroom, flatcar equipped with domes and valves, a locomotive, and training tank cars will provide a unique opportunity for outstanding student hands-on training in simulated intervention activities, the use of plugging and patching devices, analyzing opportunities to intercede and stop leaks, and review of proper safety issues.

Safe rail transport of hazardous materials is currently a topic of state and national interest. With compressed gas products being one of the major hazardous materials transported by rail nationally, this year's program is focused on commodities including anhydrous ammonia, liquefied petroleum gases, chlorine, refrigerated liquid carbon dioxide, and propane.

TRANSCAER® TRAINING TRAIN CHLORINE RAIL EMERGENCY TRAINING

Wednesday.....	1:00 - 5:00	W462
Thursday.....	7:30 - 11:30	T417
Thursday.....	1:00 - 5:00	T457
Friday.....	7:30 - 11:30	F417

Much attention has been focused on responding to emergencies involving hazardous materials shipped by rail. Come learn the facts and engage in an opportunity to work with railroads and emergency responders to safely and effectively plan and prepare for an incident should one occur in your jurisdiction. This interactive classroom and hands-on training will walk participants through responding to railroad emergencies involving hazardous materials. Primary topics covered include: Basic railroad and train operations, locomotive safety, and tank car anatomy. Commodity-specific topics include; Anhydrous ammonia, liquefied petroleum gases, chlorine, refrigerated liquid carbon dioxide, and propane. Scenarios covered in classroom table top exercises will also be utilized in hands-on field exercises to maximize learning value. Training will be off campus at the California Railroad Museum in Old Town Sacramento and utilizes the California TRANSCAER® train. This class will be offered four times – once on Wednesday, twice on Thursday, and once on Friday. Students should examine the need to include this training in their Workshop class selections. And, it is always a photographers' paradise.



Save the Date *The 29th Annual*

September 4 -7, 2018
DoubleTree by Hilton • Sacramento, CA



Moving Forward

For the first time in 28 years, we are at a new location. The Red Lion Woodlake Sacramento as it was known in its final days, is being demolished. Our new location is the DoubleTree by Hilton Sacramento which is located at 2001 Point West Way, Sacramento, CA 95815. Please join us at our new location by planning to attend the 28th Annual Continuing Challenge, September 5–8, 2017.

The Continuing Challenge Committee has been working to offer new classes along with the basics for the first timers. Over 90 classes will be offered this year.

The Wednesday night Bar-B-Que is a good time to see old friends while having a great dinner. This is a time to network with your fellow HazMatters and learning what new things they are doing. Don't forget - the Bar-B-Que is part of your workshop package at no extra cost to you, so please join us for a fun evening.

Dennis Smith

*Dennis Smith, Chairperson
Fire Chief, Retired
Sacramento City Fire Department*

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The Continuing Challenge Workshop Committee

Dennis Smith, Chair

49th Military Police Brigade/HRF
SFC Neathery, CPT Alvarenga

Blue Water & Associates
Terry Joslin, Gary Pirkig

California Conservation Corps
Melinda Allen

**California Department of
Corrections & Rehabilitation**
Paul Vasquez

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

**California Department of
Public Health**
Willy Jenkins (Retired)

**California Department of
Transportation**
George Avila

**California Environmental
Protection Agency (CalEPA)**
Paul Penn, Kristi Placencia
**CalEPA California
Department of Toxic
Substances Control**
Alan Ito, Nancy McGee,
Ivan Rodriguez
**CalEPA Office of
Environmental Health
Hazard Assessment**
Karen Riveles

**California Governor's Office of
Emergency Services (Cal OES)**
Trevor Anderson, Denise Gibson
Erika Olsen, Matt Krinsky
**Cal OES, California Specialized
Training Institute (CSTI)**
Cal OES, Fire & Rescue Division
Cal OES, Training Division

**California State
Firefighters' Association**
Bob Hamilton

California Highway Patrol (CHP)
Reid Erickson, Adam Roha

Consultant
Terri K. Tomasello

Department of Industrial Relations
Terry Lee

Enmagin
Paul Penn

Federal Bureau of Investigation (FBI)
Sheldon Fung

Hazmat Transportation Consultant
Paul Horgan

Honolulu Fire Department
Sonny Maguire (Retired)

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

**Sacramento County Environmental
Management Department**
John Elkins, Heather Tanner

Sacramento Fire Department
Jerry Apodaca, Scott Williams,
Don Braziel (Retired),
Dennis Smith (Retired)

**United States Coast Guard
Pacific Strike Team**


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

**United States Environmental
Protection Agency**
Chris Reiner, Margaret Waldon

Yolo County District Attorney'
Heidi D'Agostino

**Brochure printed and distributed by
Modern Impressions Printing**
Diane & Ted Conrad

Workshop At-A-Glance

Monday September 4	Tuesday September 5	Wednesday September 6	Thursday September 7	Friday September 8
	Exhibitor Check-In Instructor Check-In <i>Room - Maxi's</i> 6:30 a.m. - 5:30 p.m.	Exhibitor Check-In <i>Room - Maxi's</i> 6:30 a.m. - 9:30 a.m.	Instructor Check-In Student Check-In <i>Room - Maxi's</i> 6:30 a.m. - 5:30 p.m.	Instructor Check-In Student Check-In <i>Room - Maxi's</i> 7:00 a.m.-9:30 a.m.
	Student Check-In <i>Room - Maxi's</i> 6:30 a.m. - 11:00 a.m.	Instructor Check-In <i>Room - Maxi's</i> 6:30 a.m. - 5:30 p.m.	General Store <i>Exhibitor Area</i> 7:30 a.m. - 4:00 p.m.	4-hour Classes begin 2-hour Classes begin 7:30 a.m. - 9:15 a.m.
	(registration continues after lunch)	Student Check-In <i>Room - Maxi's</i> 6:30 a.m. - 11:00 a.m. <i>Room - Maxi's</i> 1:00 p.m. - 5:30 p.m.	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.
	General Store <i>Exhibitor Area</i> 7:30 a.m. - 4:00 p.m.	General Store 7:30 a.m. - 4:00 p.m.	Exhibitor Displays Open <i>Exhibitor Area</i> 9:00 a.m. -1:30 p.m.	4-hour Classes continue 2-hour Classes begin 9:45 a.m. - 11:30 a.m.
	8-hour Classes begin 7:30 a.m. - 11:30 a.m.	Opening Ceremony <ul style="list-style-type: none"> • Keynote Speaker • Awards Presentation <i>Grand Ballroom</i> 7:30 a.m. -9:30 a.m.	"Coffee Break" <i>Exhibitor Area</i> 9:15 a.m. - 9:45 a.m. Thermo-Man Demo <ul style="list-style-type: none"> • Front Parking Lot 	General Store Closed
	(sessions continue after lunch)	Thermo-Man Demo <ul style="list-style-type: none"> •Front Parking Lot 9:30 a.m.- 11:30 p.m.	4-hour Classes continue 2-hour Classes begin 9:45 a.m. - 11:30 p.m.	
		"Coffee Break" & Exclusive Exhibitor Time <i>Exhibitor Area</i> 9:30 a.m. - 11:30 p.m.		
	Lunch (on your own) 11:30 a.m. -12:45 p.m.	Lunch <i>Grand Ballroom</i> 11:30 a.m. -12:45 p.m	Lunch & Exhibitor Showcase <i>California Ballroom</i> 11:30 a.m. -12:45 p.m	Lunch <i>Capital Ballroom</i> 11:30 a.m. -1:30 p.m
	Student Check-In continue <i>Maxi's</i> 1:00 p.m. - 5:00 p.m.	Exhibitor Displays <i>Exhibitor Area</i> Open until 6:00 p.m.	Exhibitor Booths continue <i>Exhibitor Area</i> Open only until 1:30 p.m.	Closing Ceremony <i>Capital Ballroom</i> 11:30 a.m. - 1:30 p.m.
	8-hour Classes continue 12:45 p.m. - 5:00 p.m.	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.	
		"Afternoon Break" <i>Exhibitor Area</i> 2:45 p.m. - 3:15 p.m. Thermo-Man Demo <ul style="list-style-type: none"> • Front Parking Lot 	"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.	
		Bar-B-Que & "Name that Unknown" Contest <i>Capital Patio</i> 6:30 p.m.		
Exhibitor Check-In Instructor Check-In Student Check-In <i>Room - Garden Terrace</i> 3:00 p.m. - 5:00 p.m.				

Are you ready for The 2017 Continuing Challenge HazMat Workshop? There's an app for that...and it's coming soon!

To our valued attendees, exhibitors, and speakers, our quest to enhance the Workshop experience is never-ending. You asked for something new. Well, we will see you at the DoubleTree by Hilton, Sacramento. In addition to a new venue, we want this year to be better than the last, which is why we created a new mobile app.

This year's mobile app for the 2017 Workshop is going to be awesome! Here are just a few benefits and reasons why you don't want to miss out on this year's workshop and the app:

- Access the event schedule and customize your agenda with personal appointments
- See all the speakers, read their bios, and view their presentations
- Check out the exhibitors and locate their booths more easily through an interactive map
- Get important updates and exciting offers through the app Push Notifications
- See who's attending and share contact information by networking with other attendees
- Exclusive exhibitor sponsorships are available.

Our app will soon be live. Stay tuned for the app release details and more info on how you can use the app to enhance your Workshop experience.

Follow us on Facebook: <https://www.facebook.com/TheContinuingChallenge/>

Follow us on twitter @cchazmat #cchazmat2017



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 Krinsky	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

KEYNOTE
SPEAKERS
THROUGH
THE
YEARS

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 NBC Terrorism: The First 15 Minutes Matt Krimsky, John Cavanaugh

This class has been developed to prepare First Responders in dealing more effectively and efficiently with a potential WMD-terrorism incident. This 8-hour class is open specifically to Law, Fire, EMS, and other affiliate agency representatives with a designated role as first responders in the first 15 minutes of a WMD/terrorism event. This program has been updated and improved to include hands-on exercises to better train participants to deal with a real world event.

Intermediate. HazMat FRO ICS-100 & 200 Law Enforcement, Fire, Health, & anyone with a designated role

as a first responder to a potential WMD Terrorism event.

Z802 CSTI Instructor Recertification Vance Bennett

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 recertified by taking this class.

Basic. Must have been a CSTI certified hazmat instructor.

Z803 Tactical Chemistry for Emergency Responders

Chris Weber, Dana von Kolen

This is not your average chemistry class! We cover the chemistry of hazardous materials with live demonstrations, hands-on activities, and chemical identification exercises using a variety of air monitoring and sample identification equipment including pH paper, oxidizer paper, multi-gas instruments, PIDs, Raman and FTIR spectrometers, and GC-MS. Students will get hands-on experience with many different chemicals during the workshop. Using chemical trends illustrated in our Periodic Table of the Compounds™ we show how easy it is to get useful and actionable information from just the name of the chemical.

Intermediate. Hazmat Technician.

Z804 HAZWOPER Refresher Greg Coon

To provide responders with the necessary awareness of safe and competent HazMat response actions within the typical resource and capability limits at the HAZWOPER level. Meet the OSHA HAZCOM training standard within 29 CFR 1910.1200 & Cal OSHA Title 8 CCR 5194. Meet 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 IEC.

Basic. Must have taken HAZWOPER emergency response class.

Z805 Hazcat – Hands on: Classify, Identify & Verify unknowns with the HazCat Kit

**Daniel Keenan, Maria Duazo,
Jerry Grey, Will Johnson**

Hazcat Training - Refresh your knowledge of chemical behavior & hazards! Even if you seldom use your Hazcat Kit at incidents; refresher training with the kit is extremely valuable & fun. Course satisfies elements required by HAZWOPER's Annual Refresher = CCR Title8, sections: 5192(q)(6)(C)2, 5192(q)(6)(C)9 - Know the classification, identification, & verification of known and unknown materials by using field survey equipment. - Understand basic chemical & toxicological terminology & behavior. Never used the kit? You can learn it in a day. Experienced user? Come learn the latest: Hazcat's Focused Field Identification Series and get ready for the Name That Unknown Contest.

Intermediate.

Z806 HazMatIQ Above the Line/Below the Line (New Version 20)

Joe Gorman, Cris Aguirre

This workshop will include the new HazMatIQ Version 20, with new chemical families, updated hazards, and new incident case studies. The HazMatIQ 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.

Basic.

Z807 Pipeline Emergencies Philip Oakes

Pipeline Emergencies 3rd Edition - The Pipeline Emergencies program is a comprehensive training curriculum for first responders and pipeline safety personnel. The goal of the program is to help those who will be called to respond to a pipeline accident and save lives, property, and resources. This program was developed by a team of hazardous materials, government, and industry specialists. Together, they brought together well-respected experts in pipeline safety and firefighter training to deliver this best-in-class curriculum. This will be one of the first deliveries of the 3rd edition of the program.

Basic.

Z808 HTAC's – Hazmat Tactical Analysis Cards, Using the Science, Not the Fear in Hazardous Materials Response

Clinton Greenwood, John Carpenter

This course is designed to prepare emergency responders to systematically organize and operate during hazardous materials situations. This course uses a systematic algorithm to

disseminate chemical properties using the NIOSH Pocket Guide and many other chemical resources that may be used during a hazardous materials incident. The students learn to develop incident action plans and determine safe operations by interpreting chemical properties found in the NIOSH Pocket Guide or any other chemical property reference material. This course will assist in devising a system for operational planning to support with decision-making skills in the early hours of a hazardous materials incident.

Intermediate. Hazardous Materials Operations Level First Responder.

Z809 Basic Gas Detection Sam Summers, Ken Hayes

Teaching the newer (and even the seasoned) Hazmat tech. the basics of gas detection as it pertains to direct read instruments. How does my detector work, what I can and cannot do with my detector, (or the do's and don'ts of air monitoring. The course will cover sensor technology, including e-chem (including Duo-Tox), Cat bead, metal Oxide, and P.I.D. The course will cover sensor poisoning, and cross sensitivity.

Basic.

Z810 Masters of Gas Detection Christopher 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. Experience using detectors for gases and vapors.

Z811 SCBA Visual Inspection Myles TenBroeck

This certification course teaches the basics of conducting the annual visual inspections of solid wall and composite SCUBA and SCBA cylinders. The 6 - 8 hour course is suited for those new to visual inspection well as those who have been inspecting without formal training through its wide range of inspection subjects including damage limits, neck cracking, and laws affecting inspectors. Additionally, this course meets the OSHA and DOT requirements for employee HAZMAT training. Previously certified inspectors may attend this full course under the VCIR for requalification. Participants receive certification as Visual Cylinder Inspectors upon course completion.

Basic.

Z812 Take Command of Your Writing

Jill Levy

Effective writing is often critical in hazmat. We rely on well written SOPs, training manuals, and reference sources to keep us safe. Good reports can minimize liability and build stronger court cases. This hands-on workshop will help you identify common problems that distort the clarity of your message and give you practical tips for improving any writing that you do.

Basic.

Z813 Environmental Enforcement for First Responders

Alan Ito, Glenn Forman,

Matt Peterson, Heather Tanner

This course is designed to help those who respond to hazardous materials incidents recognize environmental crimes, and document their findings. Participants will learn techniques involved in responding to a hazardous materials incidents, establishing if any environmental crime has occurred. This course will also prepare personnel to consider who to call in an event. This enforcement training is sponsored by the California Environmental Protection Agency.

Basic.

Z814 Introduction to RadResponder

Thomas Gorman

This course provides an introduction to the FEMA/DOE/EPA sponsored RadResponder application. The RadResponder Network is used by agencies to manage/share radiological data real time to establish a common operating picture. This course will include a brief overview of radiological basics, including units, levels of concern, methods of control and biological effects, followed by an off-site exercise. Case studies of past events, such as Hiroshima, Chernobyl, and Fukushima will be presented and examined. Pre-download of the app is encouraged. Bring this application home to your organization and give your community a great advantage on that worse possible day.

Basic. Download RadResponder Application on smartphones (Android or iOS) prior to class if possible. Attendees can review RadResponder Orientation material on the RadResponder YouTube channel or on regularly scheduled orientation webinars.

Z815 Hazmat in the US&R Environment

Justin Moore, Roy Segovia

Hazmat is increasingly becoming a larger part of US&R incident response. This class will cover Hazmat operations on a US&R event. We will cover structure assessment, threat assessment, equipment needs and use, and risk vs. gain. The class will focus on the Hazmat Specialist position that is required on all California Regional US&R Taskforces. We will review the roles and responsibilities of that position and how it functions within the Taskforce.

Basic. This is an offsite class. Students will be transported to the location.

Z816 Expert Witness Training

John Holland

The class will provide students with an overview for testifying as an expert witness, including demonstrations of direct and cross examination of an expert.

Basic. Students will be transported to the Federal Courthouse in Sacramento. Students will need identification and absolutely no weapons of any kind are allowed onsite.

MEETINGS

Wednesday

SERC/LEPC

ER TAG MEETING

Thursday

FIREScope HazMat Specialist Group Meeting



Survey Information

With the new smartphone app available, student survey feedback will be downloaded into a document and emailed to instructors. Be sure to fill out the survey information via the link provided during the workshop.



Exhibitor Index (as of May 20, 2017)

908 Devices

American Textile & Supply, Inc.

Andsell

AristaTek

Arizona Instruments LLC

BBI Detection

Booster Fuels, Inc.

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

California Department of Health Services

Coastal Environmental Systems, Inc.

Department of Toxic Substances Control
Gases 101

Kappler, Inc.

K-VAC Environmental Services, Inc.

L.N. Curtis & sons

Ludlum Measurment, Inc.

Office of the State Fire Marshal State Fire Training

QuickSilver Analytics

Saint-Gobain

Skedco, Inc.

Sustainable Workplace Alliance

W.L. Gore & Associates, Inc.

Continuing Challenge Awards Program

Nominations for the Continuing Challenge Awards Program are being accepted.

Please go to our website at www.hazmat.org and select the Awards tab.

Each year, The Continuing Challenge Workshop honors excellence in the field of hazardous materials response with the annual awards program. There are a variety of awards that may be granted on an annual basis, with a maximum of one award per category.

Wednesday Morning

Opening Ceremonies 7:30-9:30

Keynote Speaker - Jamie Hyneman

Best known as cohost and Executive Producer of Discovery Channel's long running science and engineering series Mythbusters, Jamie Hyneman, has an unusually diverse background, ranging from his education in Russian linguistics, to survival expert, to charter boat captain, diver, film effects specialist, engineer, and inventor.

After deciding to leave linguistics behind, he started and ran a successful charter business in the Caribbean for a number of years. Eventually he sailed back up to the States and sought work in film effects. Over the course of more than twenty five years he had his hands on over 800 commercials and feature films, first as an animatronics technician, then as a manager, and finally as founder of M5 Industries in San Francisco, which has been in business for twenty years as of this date.



In the midst of producing and hosting MythBusters and other television projects, Jamie was also quietly doing R&D and prototyping work with the Office of Naval Research and various US military and government agencies. He has received three honorary doctorates, has several patents, the Washburn Award, and is a lifetime honorary member of the International Association of Bomb Technicians and Investigators.

Jamie lives with his family in the San Francisco Bay Area. His shop, M5 Industries, where Mythbusters was shot, is now a research and development facility primarily contracting for the US military.

Mythbusters is one of Discovery's longest running and most highly regarded series, having been produced for 14 years and created over 250 hours of programming. It has had Emmy nominations, has aired pretty much in every country in the world that has television and internet, and is known for its liberal use of high explosives and creative problem solving. It aired its final season in 2016. It is credited with popularizing the sciences and engineering and inspiring generations of young people to seek careers in related fields.



9:30 - 11:30 "Coffee Break"

in the Exhibitor Area

in conjunction with

Exclusive Exhibitor Time

The EXHIBITOR PASSPORT Program

The Continuing Challenge Committee is always looking for ways to improve the workshop and this year is no exception.

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.



You will be provided a "passport" at the beginning of the workshop and starting on Wednesday morning you will have a chance to spend time with the Exhibitors. When you visit with the Exhibitors, make sure they stamp your "passport." Once your passport is filled, turn it in at Maxi's to be entered into a prize drawing. Drawing will be held during lunch on Friday.

Awards Nominations for 2018 are being accepted now at hazmat.org. Nominate someone you know!

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

2018 Instructor & Exhibitor Registration

Begins October 1, 2017

@www.hazmat.org



4-Hour Classes 1:00-5:00

W451 Strategic Planning for Emerging Hazardous Materials Threats

Jack Fry, Robert Nelson, Paul Henlin

Today's Hazardous Materials team is highly capable and continues to show value at a variety of incident types due to enhancements training, equipment and technology. As we engage in the strategic planning process we understand the true impact of integrating hazardous materials planning and response to a variety of incidents and identifying emerging threats. The format of this workshop is interactive and will encourage dialogue with regard to identifying stakeholders and engaging them in the planning process and look for best practices. Ultimately, our effectiveness can be measured on our preparedness which begins with planning.

Intermediate. Hazardous Materials Technician/Specialist

W452 Drones for Hazmat Response

Eric Petersen, Kirk Kellerhals

Drones can be especially effective in providing actionable information during hazmat situations. This course will provide information on setting up a safe and effective program including objectives, policies, responsibilities, and procedures. Course includes outside demonstrations of common missions and tools.

Basic.

W453 was cancelled

W454 Large Scale Refinery Toxic Air Release: Essential Elements of Information

Stephen Wall, Kevin Chao

Large scale air releases of toxic chemicals including H₂S, SO₂ and aromatic carcinogens often travel rapidly downwind from refineries due to accidents and operational errors, which represent exposure hazards to first responders, as well as healthcare first receivers and the community at large. Limiting serious toxic exposures based on lessons learned incidents provides the basis for utilizing an Essential Elements of Information tool, to rapidly acquire situational awareness and actionable decision-making analysis. Tabletop Exercises will be conducted to exercise essential response elements including cross-sector communication, health impact area prediction, healthcare surge, as well as exposure prevention and treatment guidance.

Intermediate. Some experience dealing with Chemical Release Incident mass casualty and/or Response.

W455 was cancelled

W456 Nuclear Radiation Does Not Make You Glow

Carl Palladino, Tom Fortner

Responding to a radiological incident can be psychologically paralyzing. This workshop will provide a brief review of nuclear radiation basics, exposure health effects, protection methods, decontamination, instrumentation, entry protocols, and a discussion of radiation misconceptions. Responding to a nuclear radiation incident is far safer than a chemical incident—find out why.

Basic.

W457 Leak City

Sharon McIntyre

Leak City is back with a new twist! A model city that takes up almost an entire room where bad things happen and you can set things right! A scenario-based hands-on program designed to challenge students as they assess and problem solve from their perch above, plus some twists and turns.

Basic.

W458 Fire Department Response Guidelines for Ammonia Emergencies

Gary Smith

Ammonia Safety & Training Institute (ASTI) will provide first responders and Hazmat technicians with key life safety and emergency shutdown recommendations. Hazmat techs will see and experience live ammonia release containment and control evolutions while working in danger area. It is imperative for all responders to read the HRTs (hazards, risks, and threats) to assure readiness for engaging a safe incident action plan; assuring that factors that could lead to catastrophic results are well understood.

Intermediate. Preferred attendance would include emergency responders who have ammonia facilities within their response jurisdiction.

W459 HazMatIQ PropaneIQ (Includes Hands On)

Todd Smith, Chris Lewis

This classroom and hands on workshop will prepare responders to safely mitigate a propane emergency involving a leaking DOT Propane Cylinder and non-bulk ASME tank. The workshop will focus on vessel assessment and leak countermeasures, for each type of propane cylinder (1-100lbs) and ASME tanks. Students will be introduced to the Propane Emergency Response A and B Kits. Students will use the propane A and B kit to control simulated propane leaks on PropaneIQ training props. Each student will receive a set of PropaneIQ Smart Charts with a diagram of each propane vessel, along with countermeasures for each leak point.

Intermediate.

W460 Drinking Water, the Emergency Water Quality Sampling Kit (EWQSK), the Water Contaminant Information Tool (WCIT), and HazMat Involvement

Joseph Crisologo

EWQSK - the drinking water sampling kit developed and distributed throughout the SWRCB DDW District offices. Deployed in response to a credible incident involving the contamination of a drinking water facility with unknown contaminant by nefarious agent. HazMat (and partners) is critical in collecting samples from exclusion zone using the EWQSK. This course will familiarize HazMat (and partners) on drinking water processes, threats and vulnerabilities, the EWQSK and their involvement in the implementation so that they may better perform if and when encountering incidents where the EWQSK has been deployed. The course also familiarizes on the Water Contaminant Information Tool (WCIT), the EPA's secure, password-protected, web-based database of information on priority contaminants of concern for "all hazards" in drinking water and wastewater systems.

Basic.

W461 The Challenges of Complex Plugging and Patching

Jonathan Poganski, Pat Johnson

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. This class is onsite but all outdoors.

W462 TRANSCAER: Compressed Gas Transport By Rail-Responder Essentials

Scott Etzel

Compressed gas transport by rail presents many unique hazards and response strategies. This session will present technical information, response considerations, and practical guidance for incidents involving rail transport of commodities including anhydrous ammonia, liquefied petroleum gases, chlorine, refrigerated liquid carbon dioxide, and propane. Instructors will also facilitate hands on exercises with rail equipment used to transport these types of commodities.

Basic. Students will be transported to the California State Railroad Museum.

Wednesday Afternoon (continued)

W463 Level A Rapid Evac

Justin Moore, Roy Segovia

Many HazMat incidents requiring level A entry occurs on elevated platforms, such as rail cars. What happens when one of our own goes down on one of these platforms and require rescuing? Adding further difficulty to this task in many cases rescuers will require level A protection as well making traditional rescue techniques nearly impossible. This course addresses the task of the removing a "Down" Entrant in level A from an elevated platform. Students will be introduced to a simple system that can be manipulated in a level A suit to safely rescue an Entrant.

Intermediate. HazMat Tech. Training to operate in Level A PPE. This is an offsite class. Students will be transported to the location.

W464 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. This is an offsite class. Students will be transported to the location.

W465 Propane Emergencies

Rob Scott

This comprehensive training program 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. The program is intended for firefighters and members of the Hazardous Materials Response Teams. It is also aimed at propane marketers, propane industry product and container specialists, and private or emergency response contractors. Propane Emergencies is based upon commonly used practices, references to nationally recognized engineering practices, regulations, consensus standards, and training programs.

Basic. This is an offsite class. Students will be transported to the location.

W466 Exercise Design-How To Get The Most Out Of Any Exercise

Terry Joslin, Bill Robberson

Drill and Exercise Design: How to Get the Most out of Any Exercise is designed to aid responders in creating a "all-hazards preparedness" (domestic terrorism, major

disasters and other emergencies) exercise that will play out the roles of their agency in a response to weapons of mass destruction (WMD) or conventional threat. The course is based upon lessons learned from the design, development and play of large-scale exercises in the inland and marine environments.

Basic.

2 Hour Classes 1:00-2:45

W251 Hazardous Communications Standard (29CFR 1910.1200) Updates

Nick Vent

The Hazard Communications Standard has been updated. Say goodbye to the old 9 part MSDS and say hello to the 16 part SDS. 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 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 with the standard.

Basic.

W252 MacGyver Gas Detection

Christopher 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. Previous use of gas detectors is preferred.

W253 Chemical Identification In Hotzone: Analysis of Samples In Opaque Containers & Residues On Surfaces

Eric Roy, Chris Waier

Handheld Raman-based chemical detectors have been used by Hazmat, Military, and Security personnel to identify unknown chemicals for more than a decade. However, traditional Raman detectors are limited in their use because they cannot identify chemicals found inside thick, opaque or colored packaging/containers. Additionally, these systems are also unreliable in identifying liquid and powder residues on surfaces. These two operational limitations decrease efficiency in the hot zone and increase the risk to the operator and, in some cases, the public.

Intermediate. None required, but current users of handheld Raman and FT-IR will have a leg up.

W254 CBRE WMD Sampling Using DoD Standard Sampling Kit

Rod Hudson, Chris Wilcox

Familiarize students with the DoD Standard CBRE Sampling Kit. Methodology: Lecture and practical sampling exercises. Relevance: Chem Bio threats continue to be a threat. Knowledge of state of the art sampling equipment used by DoD will enhance coordination between first responders and Federal responders. Importance: The kit used in this training is being issued to Army, Navy, AF, Marine and NG CSTs and will enhance first responders requisite knowledge of DoD sampling capabilities. Using a kit comprised of components tested for interferences will reduce errors and preclude re-sampling thereby improving worker safety.

Intermediate. Basic clean man - dirty man Hazmat operations.

W255 Effective Use of Portable Infrared & Raman Detectors

Dana von Kolen, Chris Weber

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

Basic.

W256 DuPont Thermo-Man

Dan Hirsh, Dan Bowen

There have been new editions issued on a number of NFPA standards that pertain to hazmat PPE, this session will review those changes and their potential impact on your PPE selection process. We will also discuss Wildland and Station wear standards and how different materials react to fire exposure, followed by a live burn demonstration outside.

Basic.

2:45-3:15

"Afternoon Break"

in the Exhibitor Area

2-Hour Classes

3:15 - 5:00

W271 Improvised Explosive Devices - First Responder Awareness

Sheldon Fung

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 1st responder will be discussed.

Basic.

Wednesday Afternoon (continued) & Evening

W272 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.

W273 Panel on Statewide Oil Spill Response Yvonne Addassi

This course will provide an overview of the new inland component of the Office and Spill Prevention and Response's expanded statewide program. Topics to include announced and unannounced drills and exercises, industry contingency planning requirements and geographic response plan development.

Basic.

W274 Understanding Legal Indoor Cannabis Cultivation Facilities Christopher Wrenn

Legal cannabis cultivation sites are not necessarily all death traps. With the medical and/or recreational legalization of cannabis in over half of the US states, legal cultivation

sites or "grows" are becoming more and more common. The threats of poorly executed butane extraction and poor wiring in illegal grows has been addressed in a number of classes. This presentation will help to set expectations for first responders entering a state of the art legal cannabis cultivation space. It will discuss lighting, HVAC, CO2 enrichment, extraction and grow styles amongst other topics.

Basic.

W275 OMG.. You Want Me To Respond To A Bio Incident?

Cheryl Stith, Alison Dabney

Course will provide suggested approaches for responding to a biological incident. Case studies will be used to help students understand the challenges and lessons learned from previous incidents.

Basic.

W276 Recognizing and Responding to Chemical-assisted Suicides

Reed Hodgkin, Meredith O'Brien, Matthew DeLellis

Chemical-assisted suicides are an increasing hazardous materials threat. Exposure levels from these events can be very high – first responders can receive hazardous and potentially lethal exposures. This course was developed in cooperation with the International Association of Fire Chiefs and the National Institutes of Health. We introduce chemical-assisted suicides and

describe real-life examples. An audience participation discussion will share knowledge and approaches from participating departments. We then provide tips on how first responders can rapidly recognize a potential chemical suicide event. Guidance is given for responding to these events in ways that protect responders and members of the public.

Basic.

W277 First Due Officer - Size me up? (2.0) Ken Loo

Using the plain text and KISS approach to a HazMat scene as a First Due Officer - students will refine their initial Size Up skills of potential Hazardous Materials Emergencies with a windshield survey.

Intermediate. Emergency Response background.

W278 Hydrogren Sulfide: Avoid The Ride James Tate

This 2-hour workshop combines case studies and experience in dealing with actual suicide cases. "Detergent suicide" can be a 'nasty ride' Don't take that ride. Increase response capabilities and competencies by being more aware of clues surrounding these incidents, and taking the safe, effective actions at scene.

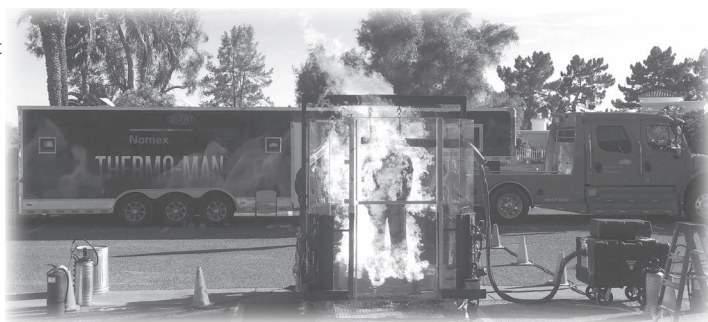
Intermediate. FRO ICS 100-200-700 Technician/Specialist preferred.

Exhibitor Booths Equipment Demos, and Static Equipment Displays

Dupont's Thermo-Man is making a stop at the Continuing Challenge. ThermoMan is a means of testing PPE for heat resistance without having to use a live person.

"Covered with 122 heat sensors and dressed in test garments, DuPont™ Thermo-Man® helps ensure optimal product performance. Thermo-Man® is a UL Certified test mannequin - the first of its kind developed in conjunction with the US Government to help protect the warfighter from burns."

They engulf the mannequin in flames. This is dramatic. Check it out!



BAR-B-QUE

6:30

CAPITAL PATIO

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



Cost included
in your
registration
fee.

6:30 — Capital Patio

"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 NOW for the 20th year running "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. We will send you the rules for the contest upon receipt of your registration.

Assemble your team and Register NOW!

Team registration forms are printed on page 20 and available online under the Workshop tab.

Thursday Morning

4-Hour Classes 7:30-11:30

T411 Kitchens, Up All Night for You **Bill Wennhold, Terry Bullock**

At the end of this program the student will understand the chemicals involved, the cooking process, and the hazards associated with manufacturing methamphetamine, homemade explosives, and THC oils.

Basic.

T412 Radiation Decontamination and Dose Assessment Demo **Marcy Barnett, Victoria Brandt**

This interactive session will demonstrate how mass decontamination and radiation dose assessment can be performed efficiently after a radiological or nuclear emergency using CDC guidance.

Intermediate. Basic knowledge of radiation.

T413 Leak City, Part **Sharon McIntyre**

Leak City is back with a new twist! A model city that takes up almost an entire room where bad things happen and you can set things right! A scenario-based hands-on program designed to challenge students as they assess and problem solve from their perch above, plus some twists and turns.

Basic.

T414 Advanced Radiation for Emergency Response **Carl Palladino, Darrell Pugh**

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. We recommend taking the Radioactive Easter Egg Hunt class as a refresher on using instruments.

Advanced. 8-hours of awareness or operational radiological training.

T415 IMS Detection-The Tricks of the Trade

Chris Weber, Dana von Kolen

Ion mobility spectrometry (IMS) is a great way to detect low levels of explosives, chemical warfare agents, illicit drugs, and toxic industrial chemicals - but it can be tricky to apply! Come learn how to use your IMS device correctly so it performs for you when you need it. Learn how to sample correctly on scene, how much sample is too much, what a sieve pack does, how to ensure your device is ready to operate in an emergency, when to bake out, and much more. We will run actual samples and see the devices in action.

Basic.

T416 Drones - Best practices with use of UAS in Emergency Response **Terry Joslin**

Hear from multi-agency panel of operators and agencies of Unmanned Aerial Systems on best practices and Research for assisting emergency response.

Basic.

T417 TRANSCAER: Compressed Gas Transport By Rail-Responder Essentials **Scott Etzel**

Compressed gas transport by rail presents many unique hazards and response strategies. This session will present technical information, response considerations, and practical guidance for incidents involving rail transport of commodities including anhydrous ammonia, liquefied petroleum gases, chlorine, refrigerated liquid carbon dioxide, and propane. Instructors will also facilitate hands on exercises with rail equipment used to transport these types of commodities.

Basic. Students will be transported to the California State Railroad Museum.

T418 Propane Live Fire **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, the session that covers propane's combustion characteristics, system safeguards, valving, and firefighting technique.

Basic. Student will be transported to the offsite location.

T419 Beginning CAMEO **Kevin Smith**

The Beginning CAMEO course is designed for those who have not used the current version of CAMEO programs before. By the end of this class, students will: know how to download the CAMEO Chemicals and ALOHA air modeling programs at no cost; be able to identify unknown hazardous materials using basic search skills; model plumes of releases of hazardous materials; model explosions see how hazard zones can be plotted directly onto an electronic map.

Basic. This is an offsite class. Students will be transported to the location.

T420 CAMEO, WISER, Google Earth, Microsoft Office, and ArcView For Laptops, Tablets, iPhones, and Other Devices **Tom Bergman**

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 MAPLOT 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 taking the Basic CAMEO for HazMat responders offered at this workshop. This is an offsite class. Students will be transported to the location.

T421 Agricultural Terrorism **Matt Krinsky, Shawn Byrd**

This class has been developed to prepare First Responders to deal more effectively and efficiently with a potential Agricultural terrorism incident.

Basic. FRO, ICs 100 & 200 Participants should be law enforcement, investigative, environmental health, and related professions who will be tasked with investigating a possible act of terrorism directed against Agricultural infra-structure. This is an offsite class. Students will be transported to the location.

2-Hour Classes 7:30-9:15

T211 Hazmat Urban Legends **Vance Bennett**

Was that alligator in the sewer really a mutant caused by exposure to methyl-ethyl-diforsuranol? Find out the answers to this and other mysteries as we skewer conventional wisdom and expose outright prevarication in this light-hearted look at what "everyone knows".

Basic.

T212 Hazmat Training using Virtual Reality Environments-CBRNE **Nick Vent, John Rolando**

This course will demonstrate concepts of CBRNE response using virtual reality environments. Over 20 instruments are modeled including Chemical, Radiation and Explosive detectors. Biodetection is not modeled. Students will be shown how to use the programs then allowed to explore the environments on the computers provided. The RAILS system is an online or instructor led training funded by DND, DOE, NFPA and other agencies. Avatars don't die so explore the situations.

Basic.

T213 was canceled

T214 Hazardous Materials Assistant Safety Officer **Antonio Duran**

This course will introduce the (HM certified Technician/Specialist) student to perform as an ASO at a properly organized HM incident following appropriate on-the-job training (OJT).

Basic.

Thursday Morning (continued)

T215 Oil & HAZMAT Response Considerations For Fresh Water **Jessica Wissmann, Scott Binko**

Provide local, state, and federal responders information regarding clean up considerations, resources, and challenges when responding to incidents affecting freshwater and relative habitats. Discuss the process utilized to approve advanced tools and technologies regarding alternative response methods.

Basic.

T216 DeconIQ: Electrostatic Decon Tactics **Joe Gorman, Gary Sharp**

Electrostatic decon is an emerging technology designed to meet emerging threats and reduce the logistics required to conduct effective decon. Electrostatic decon tactics include a hybrid of wet and dry decon. This workshop provides responders and warfighters the knowledge and skills required to conduct electrostatic decontamination tactics (EDT) including its use and limitations. EDT uses an electrostatic sprayer to add an electric charge to the decon solution. The charged decon droplets will envelop and adhere to the target. The result is the ability to perform a more effective decon, for a wide range of incidents, with significantly less decon set-up.

Basic.

T217 Case Studies - How DTSC Supports Local Agencies **Michael Pixton**

The California Department of Toxic Substances Control has a long history of supporting local agencies in a variety of ways. This course will showcase some of the many ways we can help.

Basic.

T218 PEAC-WMD Software **Matthew Stewart**

This hands-on workshop will educate students on how to most effectively use PEAC-WMD during incident response and planning. We will review PEAC's Incident Manager, options for user-specific configuration, and how to leverage PEAC's integration with Google Earth, Email, NIMS forms, and HMBP data. We will take an in-depth look some of the PEAC computation tools and the science behind their creation (i.e. Explosion Calculator, Gamma Dose Calculator, PAD Calculator). 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.

Intermediate. This course is designed for those who have used or had some exposure to the PEAC-WMD application before.

T219 Gazing Into Your Crystal Ball **Charles J. Wright**

Response personnel make numerous decisions during an emergency; these decisions, based on the responder's experience and understanding of the problem, are especially challenging when hazardous material is involved. Critical tasks in decision making for hazardous

materials include predicting the behavior of the container/contents, estimating the potential outcomes (harm) associated with that behavior, and applying this knowledge to planning a response. A simple model for predicting behavior and estimating outcomes will be presented and participants will have an opportunity to practice these tasks.

Basic.

T220 HazMat Team Typing for California & FIREScope HazMat Working Group

Trevor Anderson, Brad Haldeman

The California Governor's Office of Emergency Services is typing HazMat Teams throughout California to support the State's Fire & Rescue Mutual Aid System. The Course will provide guidance, understanding, and rewards of this process. In addition, the FIREScope, HazMat Working Group will provide an open forum meeting and Q&A.

Basic.

T221 How to get the most out of your CUPA **Brad Long**

CUPAs Statewide collect >100,000 Hazardous Materials Business Plans (HMBP) these Plans are available thru the California Environmental Reporting System (CERS) website to all First Responders for response and planning purposes. You will see how to gain access, and use this HMBP information. In addition The California Accidental Release Program (CalARP) further regulates higher hazard sites in your jurisdiction. Find out how to get information about these facilities and better respond to them. Additional resources include the Instrumentation Manual, Lab-ID Program.

Intermediate. Students should be Hazmat Tech Certified.

T222 Foundations of Performance, Caloric Burn and Postural Health in Public Safety Careers **Eve Webber**

This class will discuss the foundations of different types of performance and styles of fitness for Public Safety Professionals. Also, it will discuss and demonstrate what types of training are most recommended for Public Safety Professionals. In addition, this class will discuss basic nutrition, caloric burn, types of nutrients and different recommendations and styles of eating plans. Postural health for Public Safety professionals will be discussed. Demonstrations will be reviewed regarding how to manage and maintain postural health.

Basic.

T231 CDFW's MET - Battling the Marijuana Cartels for California's Public Safety and Wildlife Resources **John Nores**

Lt. Nores reviews the Department of Fish and Wildlife's marijuana enforcement program, highlighting the MET and WET programs. Nores will highlight the program's effectiveness, the public safety threats of trespass grow sites, the environmental crime concerns related to private property marijuana cultivation sites, explain grow site indicators, cover grow site public health threats including banned and toxic poisons, pesticides, booby traps, negative impacts to water sources and our drought, water source poisoning.

Basic.

T232 Hazmat Training using Virtual Reality Environments - Radiation **Nick Vent, John Rolando**

This course will demonstrate concepts of radiation response and protection using virtual reality environments. Students will be shown how to use the programs then allowed to explore the environments on the computers provided. The RAILS system is an online or instructor led training funded by DNDO, DOE, NFPA and other agencies. Avatars don't die so explore the situations.

Basic.

T233 Looking Inside the Fenceline **Keith Silverman, William Cullen**

In August 2013, Executive Order (EO) 13650 was issued after an incident of national significance at an industrial facility in Texas. The overarching goal was improving chemical facility safety and security. One area of focus was engaging stakeholders to identify best practices aimed at reducing safety and security risks in the production and storage of potentially hazardous chemicals. This workshop will introduce procedures for assessing the emergency response needs of industrial facilities, tips for responding to emergencies, models for establishing lasting partnerships between local responders and facilities, and present ideas on where we need to go in the future.

Intermediate.

T234 Response to an Improvised Nuclear Device Detonation: Radiological Realities **Erik Gaull**

TV and movie portrayals of the effects of a terrorist detonation of a nuclear weapon are not a good basis for planning. This presentation covers the best available science about what conditions would be like, what responders need to know to protect themselves and others following such an event, and discusses planning considerations for response to such an event.

Basic.

9:15 - 9:45
"Coffee Break"

in the Exhibitor Area
Thermo-Man Demo

2-Hour Classes

9:45-11:30

Thursday Morning (continued) & Afternoon

T235 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.

Intermediate. Basic understanding of chemistry.

T236 Wildfires, Oil Spills, and Harmful Algal Blooms, Oh My! Case Studies On Public Health Emergencies

Karen Riveles, Susan Klasing

First, we will look at the health effects of wildlife smoke and effective communication with the public during a wildfire event. We will also cover the recent evaluation of the health effects of refinery emissions and the Aliso Canyon gas leak. Next, we will examine OEHHA's emergency response role relating to seafood safety after oil spills and during marine harmful algal blooms, such as the recent blooms that temporarily closed the Dungeness crab fishery. We will identify the contaminants of concern and describe their health effects, and discuss how decisions regarding closure and reopening of fisheries are made.

Basic.

4-Hour Classes 1:00-5:00

T451 Leak City Sharon McIntyre

Leak City is back with a new twist! A model city that takes up almost an entire room where bad things happen and you can set things right! A scenario-based hands-on program designed to challenge students as they assess and problem solve from their perch above, plus some twists and turns.

Basic.

T452 was cancelled

T453 Hazmat Detection Workshop Dana von Kolen, Chris Weber

The Hazmat Detection Workshop is a comprehensive look at hazardous materials detection, classification, and identification using technology to determine the chemical & physical properties and the hazards of the unknown through a risk based response strategy. We will review basic and advanced technologies while using a systematic approach in analyzing the readings for a safe and effective remediation of the unknown hazard.

Basic.

T454 Responding to Laboratory Emergencies William Cullen, Keith Silverman

Emergency responses to laboratories can be extremely challenging. Thoughts of wild-

haired scientists in white lab coats only add to the uncertainty and uncertainty creates anxiety. Hazardous chemicals, biologicals, radioactive materials, specialty gases, and complicated laboratory apparatus and instrumentation all pose special challenges. Additionally, the physical layout of laboratory facilities further complicates the response. This workshop, given by two fire chiefs, with over fifty-five years of combined experience working in and around the laboratory environment, will help take the mystery out of laboratory emergency response by enhancing situational assessment, risk-based decision-making, and responder safety.

Intermediate.

T455 Surviving the UED (Unexpected Extended Deployment) Susanne Rohner

Surviving the UED (Unexpected Extended Deployment) If you've responded to a disaster or emergency scene, you know that while most incidents are short and sweet, things can go wrong, sometimes VERY wrong, and your expected few hours at an incident can become longer - in some cases, MUCH longer. Using personal experiences learned during such UED's, this course will give tips and pointers on what to bring, how to manage, and how to survive when that short term rapid response becomes an unexpected stay at the Disaster Inn.

Basic.

T456 Asbestos Exposure: Risk, Danger, Danger, Danger M. Haynes

Emergency Response Professionals and Firefighters Face Exposures. We now know even after 9/11, that 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 a Asbestos Exposure, which can end in a asbestos related illness. These exposures to Asbestos Containing Materials (ACM) or Asbestos Containing Wastes Materials (ACWM) are encountered at Structural damaged buildings due to Demolitions, Fires and Construction activities. Attendee's will learn how to reduce Asbestos exposures by Dilution of Risk with the proper tools: Awareness Training

Basic.

T457 TRANSCAER Train - Responding to Railroad Emergencies Involving HazMat Scott Etzel

Compressed gas transport by rail presents many unique hazards and response strategies. This session will present technical information, response considerations, and practical guidance for incidents involving rail transport of commodities including anhydrous ammonia, liquefied petroleum gases, chlorine, refrigerated liquid carbon dioxide, and propane. Instructors will also facilitate hands

on exercises with rail equipment used to transport these types of commodities.

Basic. This is an offsite class. Students will be transported to the California Railroad Museum

T458 Advanced CAMEO Kevin Smith

The Advanced CAMEO course is designed for those who have basic skills in using the CAMEO Chemicals and ALOHA programs of the CAMEO Suite. By the end of this class, students will know how to use all four of the programs in the CAMEO suite as a unified whole (CAMEO Chemicals, ALOHA, MARPLOT, and CAMEOfm) to handle hazmat incidents. Specifically, they shall learn how to use the MARPLOT mapping program, plot ALOHA hazard zones on a MARPLOT map, how to use advanced features of CAMEO for chemical searches, chemical interaction analysis, plume and explosion modeling, mapping, and tracking of information for hazardous materials facilities in their jurisdictions, and how to modify and customize CAMEO to their needs.

Advanced. Experience and/or training in using the CAMEO Chemicals & ALOHA programs of the CAMEO Suite of programs. This is an offsite class. Students will be transported to the location.

T459 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.

Basic. This class is offsite. Students will be transported to the site.

EXHIBITOR SHOWCASE during Thursday Lunch



Hear all about the latest and greatest products and equipment being sold in the Exhibitor Courtyard.

Thursday Afternoon (continued)

2-Hour Classes 1:00-2:45

T251 IMAAC and Atmospheric Release Modeling from the Federal Government Erik Gaul

The Interagency Modeling and Atmospheric Assessment Center is a 24/7 federal government resource that can assist SLTT public safety and emergency management agencies with free plume modeling and scientific interpretation. Models are developed by trained scientists using highly sophisticated software. This presentation describes IMAAC's capabilities and methods to support planning, exercises, and real-life incidents, as well as how to request such support, and what kinds of products to expect.

Basic.

T252 What's My Exposure To Unseen Hazards Keith Davis

What's my Exposure to unseen hazards, Viruses, Superbugs Myco/Bio toxins. Things I don't want to take back to the Station or worse Homes. This course will inform you and advise ways you can be safe around and or avoid potential dangerous contaminants such as blood and body fluids, Superbugs and meth residue. You will also learn of agencies to turn to with traumatic situations for assistance of victims

Basic.

T253 NFPA Hazmat Standards Update Philip Mann

This session will provide an overview of the changes that have been approved for NFPA 1991, 1992, and 1994. These standards have been changed significantly and will impact the decision making of the responder regarding the proper garment for each application.

Basic.

T254 How to Kick-Arse as an Agency Representative in Unified Command Bill Robberson

If your agency has a role or an interest in the outcome of an incident or emergency response, AND YOU ARE NOT PART OF THE UNIFIED COMMAND, this course will show you how to make the ICS system work for YOU!

Intermediate. Some familiarity with ICS (ICS 100 & 200) Completion of ICS 300 preferred but not essential.



2:45-3:15 "Afternoon Break" in the Exhibitor Area 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 Hazmat Response and Emerging Pathogens Cheryl Stith

Best practices for responding to biological incidents (Ebola and other emerging pathogens). This class will provide a case study on the 2014-2015 West Africa response and discuss preparedness efforts in California to respond to an emerging pathogen incident.

Basic.

T273 Make Your EH&S Training Come to Life And Change Behaviors! David Casavant

Do you provide training on difficult regulatory compliance subjects to your employees or clients? In a recent survey of those who provide technical training, we found that the #1 problem was "How to make the training interesting". In fact, four of the top five issues for trainers involved not technical issues, but how to be a better, more polished trainer. We share cutting edge ideas that will help you easily explain difficult ideas and help you get your message across to your audience. We'll reveal easy-to-implement ideas including the use of technology to make your message more impactful and change behaviors.

Intermediate. Attendee should be actively providing compliance related training or scheduled to do so in the near future.

T274 How to Activate a Community Reception Center Marcy Barnett, Victoria Brandt

This session is a companion to the radiation decon and dose assessment demonstration. This session will cover the logistics of how to activate and operate a Community Reception Center.

Intermediate. Basic knowledge of radiation.

T275 Assessing Tank Car Tank Damage Charles J. Wright

Identifying and interpreting the type and extent of damage to railroad tank cars is critical to analyzing emergencies involving hazardous materials. Responders to railroad emergencies should be able to identify the different types of tanks cars, types of tank damage, and the extent

of damage so they can share that information with the railroad response personnel and others not on the scene. They should also be able to interpret the significance of that damage in order to protect themselves and others.

Intermediate. Basic understanding of tank car construction and basic characteristics and behavior of compressed gases and flammable liquids.

T276 Hazmat/CBRN Performance Standards & Next Generation PPE Robert Eckroade, Michael Kienzle

Hazardous materials emergencies can occur anywhere, involve any number of substances, and result in a diverse set of challenging environmental and operational response conditions (e.g. train derailments, chemical spills from tanker trucks, CBRN terrorism incidents, etc.) First Responders and Hazardous Materials technicians must be adequately and properly protected to respond to these incidents, whether performing life safety or emergency mitigation missions. This educational/demonstrational program will review applicable NFPA standards and next generation PPE for the first responder to hazardous materials emergencies.

Basic.

T277 Hazardous Materials Response and Climate Change- Adapting to Rising Tides Ellen Dempsey

The effects of Climate Change continue to become more defined as cities, counties, and states create climate action plans, but how do these expected changes affect Hazmat? This course will follow the track of Contra Costa County through the continuing investigation and implementation process in regards to the effects of climate change, specifically flooding, and how that impacts commercial and industrial parcels that have hazardous materials. This course will also include a table-top incident response exercise.

Intermediate. ICS 300 or above recommended for exercise section.

T278 Microplastics in the Food Web - Our Latest Contaminant of Concern? Bill Robberson, Anna-Marie Cook, Harry L. Allen

Microplastics (plastics < 1 mm in size) are reported in freshwater and marine ecosystems worldwide, and potential impacts on the food chain are beginning to be recognized. Plastic particles are not inert, they readily sorb and hyper-accumulate persistent organic pollutants (POPs) and other contaminants ubiquitous in trace concentrations in most water bodies. In this course, participants will hear first-hand about the latest studies and research into microplastic particle pollution and how it acts as a transport mechanism for contaminants into the food web.

Basic.

Friday Morning

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

F411 Meters, Understanding Readings. How to interpret and use meter readings to adjust your Hazard/Risk Darryl Riedinger, Rick Reddy

With increasing reliance on meters, Techs are challenged to have a better understanding and interpretation of meters. This class is designed to give the Hazmat tech the skills to interpret what the meter "sees". Through the use of lecture and small group activities, the tech will gain the understanding to interpret the data presented by their meter and make the proper adjustments to the hazard/risk assessment. Providing 'rule of fifths', percent of a percent, and correction factors, the student will gain the KSA to better understand, providing improved safety for the public, responder and environment.

Intermediate.

F412 History of Illegal Drug Labs and Current Manufacturing Trends Jerry Bucklin, Brian Escamilla

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.

F413 Crisis Decision-Making: Accelerate Your Experience and THINK Your Way to Success in an Emergency Reed Hodgkin, Meredith O'Brien, Matthew DeLellis

This course helps personnel with response decision-making responsibilities learn to accelerate their experience and improve the critical skill of decision-making in crisis. The four-hour, multi-media class will train responders on how to quickly gain situational awareness during the chaotic early phase of a HAZMAT emergency. Applying the principles of Recognition-Primed Decision Making, students will learn to use best practices along with lessons learned from real events to develop strategies and tactics. Students will apply the skills in team exercises using an advanced scenario-based simulation application developed by EPA Region 9 and an event scene mock-up. May the best team win!

Basic.

F414 The Utilization of Hanby Environmental's TPH Field Test Kits for Water and Soil Analysis Charles Fator, E. Ray Oswalt, Edward Ricco, Souvick Saha

This course will enlighten the students on the science behind and the utilization of the Hanby TPH Field Test Kits that have been used the world over for the last 30 years for the analysis of water and soil. The kits are used for the immediate detection and analysis of hydrocarbons with results in 4-6 minutes. Utilizing the kits with immediate results as opposed to awaiting time delayed lab results provide invaluable information during a spill response.

Basic.

F415 New Tools and Guidance for Responding to Radiological/Nuclear Terrorism Brooke Buddemeier, Stephen Musolino

The Department of Homeland Security, the National Nuclear Security Administration, and the National Council of Radiation Protection and Measurement have been working on several efforts to help the emergency response community respond to radiological and nuclear terrorism incidents. This session will provide an overview of the latest science and discuss several key efforts to provide the response community with better tools and guidance.

Basic.

F416 Virtual Response to Real Life Hazmat Incidents Dana von Kolen, Chris Weber

We will look at actual incidents and formulate response objectives including rescue, recon, and mitigation as a table top exercise. Using detection and identification equipment on the chemical involved we will compare our response to what actually occurred.

Basic.

F417 TRANSCAER: Compressed Gas Transport By Rail-Responder Essentials Scott Etzell

Compressed gas transport by rail presents many unique hazards and response strategies. This session will present technical information, response considerations, and practical guidance for incidents involving rail transport of commodities including anhydrous ammonia, liquefied petroleum gases, chlorine, refrigerated liquid carbon dioxide, and propane. Instructors will also facilitate hands on exercises with rail equipment used to transport these types of commodities.

Basic. Students will be transported to the California State Railroad Museum.

F418 COBRA Software For Hazmat Incident Response Kevin Wilson

Training on the use of new web based COBRA software, which is currently being deployed to Cal OES Hazmat vehicles. This course will provide overview of both use and administration of this new common operational picture toolset.

Basic. This is an offsite class. Students will be transported to the location.

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

F211 HazMat in the Maritime Realm-Good Stuff To Know Robert Chedsey, Jim Hughes, Mike Foil

A HazMat call on dry land is challenging enough; on vessels and in the ports, it takes on additional dimensions. Learn how different it can be before you "get your feet wet".

Basic.

F212 was cancelled

F213 HazMat Incident Case Study Deirdre Williams, Mario Tresieras, Winston Perez

Hazmat incidents rarely come in as a hazmat call, but rather some other need for help. Responders once on scene find that the call is either misidentified or has the likely potential to become a hazmat event with public health impact. This session provides a formal review of two such incidents:

1. A two alarm structure fire which was in fact a magnesium and corrosive liquid fueled fire at an industrial facility and 2. Report of an unresponsive person which was actually a fentanyl overdose in an illicit lab. Each review simply involves a discussion of the events which transpired during the emergency and ensuing clean up phases which will cover the on scene contaminants and hazards, protection actions for responders and the nearby public, clean up/decon means, and the clearing of the site for reuse.

Basic.

F214 Research-So Much to Do, So Little Time! 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.

F215 Product Removal Methods - Tank Cars

Charles J. Wright

Although product removal is outside the legitimate responsibility of local emergency response personnel, oversight of the planning and implementing product removal is within the responsibilities of local response personnel. This class will discuss the methods for removing the contents of damaged or overloaded tank cars, including transfer, flaring, venting, and vent and burn. The class addresses method selection, potential risks, preferred conditions, safety precautions, and general procedures for each product removal method.

Intermediate. Damage assessment for tank cars, general understanding of tank car construction and fittings.

9:15 - 9:45 "Morning Break" 2-Hour Classes 9:45-11:30

F231 Compressed Gas Cylinder Identification

Chris Reiner

An unidentified compressed gas cylinder can be an alarming find, but it doesn't have to be. This course will teach you how to read the clues a cylinder gives and enable you to identify what's inside, or at least what kind of hazard it presents. After the lecture, students will identify multiple mystery cylinders and leave with a better understanding of the risks and realities of compressed gases.

Basic.

F232 Risk Communication and A Field To Lab Communication Case Study After A Cyanide Exposure

Karen Riveles, Sauda Yerabati

In the first part of this course, students will learn the basics of risk communication, which is informing people about potential hazards to their person, home or community. Students will use scenario-based learning to create messages for specific target audiences and practice delivering a concise message to a target audience through social media. The second part of the course will look at communications between the field and lab when confirming toxic human exposure. An incident involving a suspected cyanide poisoning case will be used to illustrate how the CDPH LRN-C (Lab Response Network-Chemical) Lab communicates with first responders.

Basic.

F233 Agentase Point Detection Tools for Enhanced CWA and TIC Response

Jason Robosky

Are you looking for fast, sensitive, and easy-to-use chemical detection tools that you can trust during hazmat emergency response? The Agentase family of CWA and TIC point detectors are high tech sensors with low tech operation. During this course, you will learn the chemistry behind operation of these colorimetric surface sensors. Through hands-on exercises, you will learn how to operate both the surface sampling Agentase C1 and sprayable Agentase C2 to detect and map simulated contamination. You will gain the knowledge needed to determine how these sensors could enhance your incident response capabilities.

Intermediate. Basic knowledge of chemistry.

F234 Legal Aspects of Fire/Hazmat Response

Alan Finkelstein, Paul Filon

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.

F235 Handheld Mass Spectrometry for Downrange Chemical and Explosives Detection

Gwen Bone

High pressure mass spectrometry (HPMS) is a new gas sampling technology which provides greater selectivity than personal protection devices and compliments broad-range identifiers like IR, Raman, and GC-MS. Learn through hands-on scenarios where HPMS fits into a risk-based response process, and how the technology can benefit your agency.

Basic.

Lunch & Closing Ceremonies: Capital Ballroom 11:30 - 1:30

Thank you all for attending the
Continuing Challenge HazMat Workshop.
Your continued support helps us provide
the best training possible!
Looking forward to seeing you in 2018

Save the Date -- September 4-7, 2018



[illegible]

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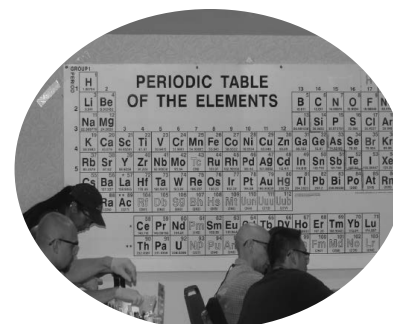
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Contest Registration Forms

“Name that Unknown”

Wednesday evening
following the Bar-B-Que

Show your understanding and mastery of
Field Chemistry, the core of HazMat.

First Place Team wins
**FREE registration to next
year's Continuing Challenge
HazMat Workshop**
(non-transferable) and the
Perpetual Trophy for the year



Rules and Details at www.hazmat.org

1st Team Member:

First Name _____

Last Name _____

Agency _____

Address _____

City _____

State/Zip _____

Phone _____

E-mail _____

2nd Team Member:

First Name _____

Last Name _____

Agency _____

Address _____

City _____

State/Zip _____

Phone _____

E-mail _____

2 Members per team.
Members may be from different Agencies

Hurry!
Limited to first 10 Teams registered

For More Information Contact:

Will Johnson

(800) 543-5487

E-mail: wjohnson@hazcat.com

Mail Completed Form to:

Name That Unknown Contest
The Continuing Challenge
5770 Freeport Blvd, Suite 200
Sacramento, CA 95822



The Continuing Challenge HazMat Photography Contest

For more information contact Paul Horgan at HMCTman@gmail.com.

Who can participate

- Any registered attendee or registered instructor may submit two photographs.
- Members of the Continuing Challenge Committee or Professional Photographers are not eligible to participate.

Submission Checklist:

- Download and complete an entry form with the required information. Entry forms are available at www.hazmat.org
- Name your photo file using your Last Name as part of the file name: e.g., SmithChallengeEntry.jpg
- Submit completed entry form and photo by the close of business on August 31 of the current year. You may submit the completed entry form via email, fax, or mail to the Continuing Challenge office. The photo must be emailed to HMCTman@gmail.com.
- The Category for entries is Hazardous Materials Response
(Taken during an actual Emergency Response to a HazMat Incident within the last 5 years).
- Winners will be notified at the workshop during a special viewing. Printed entries may be picked up at the end of the Workshop in Maxi's

Official Entry Form and Complete Rules & Details are posted on www.hazmat.org!

Lodging Information

The DoubleTree by Hilton Sacramento is our Host Hotel

The host hotel for the Continuing Challenge is the DoubleTree by Hilton, Sacramento, California.

The Continuing Challenge HazMat room rates are:

Single \$95 // Double \$95

For internet reservations, use our www.hazmat.org website, and under the lodging tab 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 not later than **August 10, 2017.**

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

Make your reservations now!



①

DoubleTree by Hilton Sacramento

2001 Point West Way
(916) 929-8855
or 800-686-3775

②

Fairfield Inn Sacramento Cal Expo- Marriott

1781 Tribute Rd
(916) 920-5300
or 800-321-2211

③

Hilton Sacramento Arden West Hotel

2200 Harvard St
(916) 922-4700

Leak City is back again on Wednesday W457, Thursday T413, and T451.



Registration Information

EARLY BIRD REGISTRATION OPENS:

June 1, 2017

COST IS \$400

LATE REGISTRATION BEGINS:

August 16, 2017

COST INCREASES TO \$500

Be sure to register right away since space is limited.

How to Register

On-line registration begins June 1st. Use the Registration Worksheet on the next page to help with your class selections. Mailed or Faxed Registrations will not be accepted without prior arrangement with the Continuing Challenge staff.

On-line (Preferred method)
www.hazmat.org

By Fax: If Pre Approved
Complete and fax enrollment form to:
(916) 433-1678

Registration Fees

Payment/Purchase Order by
August 15, 2016: \$400
Late/Onsite registration: \$500

Registration fees include:

- Workshop
- Class material from instructor
- Lunch: Wednesday-Friday
- Dinner: Wednesday only

Payments MUST accompany registration. Registrations will not be processed without payment (or Purchase Order Number) and complete information.

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 cchazmat@gmail.com prior to August 17, 2017. 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.

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

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

Monday, September 4th

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

Tuesday, September 5th

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

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

Wednesday, September 6th

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

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

Thursday, September 7th

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

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

Friday, September 8th

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

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.

Continuing Education Units (CEUs) General Education CEUs

Continuing education units (CEUs) are available for workshop attendees through CPR Etc. LifeHouse Training Center. A fee of \$65 will establish and maintain a record for 5 years. CEUs will be awarded based on hours attended at the workshop. If you wish to receive these credits, check the box in the "Registration Fees" portion of the Student Registration Form on the next page, or during checkout in our online store. Remember to check in with the CEU Coordinator during the initial on-site check-in. At the conclusion of your workshop attendance, you must submit proof of attendance cards from the instructors to the CEU Coordinator in Maxi's.

EMS CEUs

EMS CEUs are available through CPR Etc. LifeHouse Training Center, an approved CA EMS CE Provider (#07-0023). A fee of \$65 will establish and process your certificate for approved hours. Only specific courses are approved to receive various amounts of related EMS CEUs. So speak to a CEU coordinator during the initial onsite check-in for an estimate of your approved hours. Nurses and paramedics should be prepared to show their license number and a photo identification at that time.

Registration Questions?

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

*Do you have a "Member Profile" at
www.hazmat.org?*

Why you should create a Member Profile:

- You will need a member profile to submit forms online at this site. Forms include: Grant Applications, Student Registration, Instructor Course Proposals, Exhibitor Registration, etc.
- Completing the member profile (name and address information) will place you on our mailing list. We send just a few emails and generally only three US mail pieces annually. NOTE: We never sell, give away, or distribute our mailing list in any form.
- It's easy and quick and will help you stay up-to-date about the Continuing Challenge.

Registration Worksheet



The 28th Annual Continuing Challenge HazMat Emergency Response Workshop September 5-8, 2017 • Sacramento, CA

ATTENTION!

Use this form as a worksheet and then pre-register online at www.hazmat.org. Mailed or faxed registrations will not be accepted without prior arrangement with the Continuing Challenge.

Registration Fees

(See Cancellation and Refund Policy on page 22)

- ☐ Workshop Registration (*received by 8/15*) _____ \$400
- ☐ Workshop Registration (*On-site registration*) _____ \$500
- ☐ General CEU Credit _____ \$65
- ☐ EMS-CEUs _____ \$65

TOTAL Fees: _____ \$

Note: No workshop course may be attended without prior payment, authorized purchase order, or approval of Continuing Challenge staff.

Method of Payment

- ☐ Check made payable to the Continuing Challenge Hazardous Materials Committee
- ☐ We accept major credit cards
I authorize the Continuing Challenge staff to charge my credit card the "Total Amount Due" shown above.

Card #: _____

Expiration Date: _____ CVV _____

Name on Card: _____

Billing Address: _____

City, State, Zip: _____

Authorized Signature: _____

Cardholder's email address: _____

Contact name and phone if different from cardholder above:

Name: _____

Phone: _____

Purchase Order # _____

- ☐ **Approved Tuition Supported Grant**
Promo Code # _____

Make check payable to Continuing Challenge Hazardous Materials Committee and mail to:

Continuing Challenge
c/o Sacramento Fire Department
5770 Freeport Blvd, Suite 200
Sacramento, CA 95822

QUESTIONS?

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

PLEASE PRINT LEGIBLY!

Participant Information

First Name: _____ Last Name: _____

Title: _____

Agency/Company: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Work Phone: _____ Home/Cell Phone: _____

E-mail: _____

Current Field of Employment: ☐ Fire ☐ Environmental Health ☐ EMS/Medical
☐ Law ☐ Public Health ☐ Command/Management
☐ HazMat ☐ Other (please explain)

Course Selection

Please make your course selections below and include alternate choices as classrooms fill quickly.

Note: No workshop course may be attended without prior payment, authorized purchase order, or approval of Continuing Challenge staff.

1st Choice 2nd Choice 3rd Choice

Tuesday:

7:30 a.m. Z _____ Z _____ Z _____

Wednesday:

1:00 p.m. W _____ W _____ W _____

3:15 p.m. W _____ W _____ W _____

Thursday:

7:30 a.m. T _____ T _____ T _____

9:45 a.m. T _____ T _____ T _____

1:00 p.m. T _____ T _____ T _____

3:15 p.m. T _____ T _____ T _____

Friday:

7:30 a.m. F _____ F _____ F _____

9:45 a.m. F _____ F _____ F _____

Continuing Education Units

- ☐ General CEU Credit
- ☐ EMS-CEU Credit



Continuing Challenge
c/o Sacramento Fire Department
5770 Freeport Blvd, Suite 200
Sacramento, CA 95822

**Check the address label.
Does it need any corrections?**

Email changes to info@hazmat.org or call our office at (916) 433-1688 to request changes. Or better yet, just visit our website at www.hazmat.org to set up (or update) your personalized "member profile". This will not only ensure that you stay on our mailing list, but you will also be able to complete applications quickly on our site (i.e., student registration, instructor proposals, grant requests, etc).

Sponsors of The Continuing Challenge

*Come join the best and most motivated HazMat responders in
training for the challenges of the 21st century
with education and networking we like to call EDUTAINMENT.*

49th Military Police Brigade/HRF	California Governor's Office of Emergency Services (Cal OES)	Honolulu Fire Department
Blue Water & Associates	Cal OES, California Specialized Training Institute (CSTI)	Office of the State Fire Marshal, State Fire Training
California Conservation Corps	Cal OES, Fire & Rescue Division	Sacramento County Environmental Management Department
California Department of Corrections & Rehabilitation	Cal OES, Training Division	Sacramento Fire Department
California Department of Fish and Wildlife, Office of Spill Prevention and Response (OSPR)	California State Firefighters' Association	United States Coast Guard Pacific Strike Team
California Department of Public Health (CDPH)	California Highway Patrol (CHP)	United States Dept. of Homeland Security (DHS), Federal Emergency Management Agency, Region IX
California Department of Transportation	Department of Industrial Relations	United States Environmental Protection Agency
California Environmental Protection Agency (CalEPA)	Enmachine	Yolo County District Attorney's Office
CalEPA Office of Toxic Substances Control (DTSC)	Federal Bureau of Investigation (FBI)	
CalEPA Office of Environmental Health Hazard Assessment (OEHHA)	Hazmat Transportation Consultant	