



State of Delaware 11th Annual Hazardous Materials Training Workshop



◆◆◆◆◆ Workshop Training Sessions

Course Descriptions and Instructor Information

Saturday, May 12, 2018

7:15 am-8:30 am: Registration-Continental Breakfast-Exhibitor Booths

8:30 am-4:15 pm - Training Sessions

Delaware State Fire School

1461 Chestnut Grove, Dover, DE 19904

See Separate Course Descriptions for Workshop Classes to be held Friday, May 11, 2018

"Educating Responders for Today and Tomorrow"

Session #1 (8:30am – 11:45am)

"Training for a CBRNE Response: a Safe Perspective"

Instructor: CARRIE A. POORE, Ph.D., Branch Chief Advanced CBRNE Training Branch

This course will begin with a discussion on training CBRNE Responders and examples of programs of instruction designed specifically to address the mission requirements of a particular group of people. Several broad categories fall under the material trained in these classes to include mission planning, site survey, protection, detection, sampling, decontamination, etc. These areas will be addressed to include lessons learned during the training process and implementation of methods and concepts taught. Further discussion will highlight how individual units benefit from these trainings as well as the ability for multiple units to operate more effectively with one another. Most importantly, the importance of safety in all of the above activities will be addressed throughout the lecture.

Instructor Bio: CARRIE A. POORE, Ph.D., Branch Chief, Advanced CBRNE Training Branch

Dr. Poore serves as the Branch Chief for the Advanced CBRNE Training Branch within the Directorate of Research and Technology for the U.S. Army Edgewood Chemical Biological Center. She has over 14 years of postgraduate experience at ECBC. As the Branch Chief, she leads the execution of training programs and also trains the biology portions of the courses for customers throughout Department of Defense, Department of Justice, Department of State, National Guard Bureau and other federal, state, and local assets involved in the counter-WMD fight. Dr. Poore led the training program for the 20th Support Command's Heavy Mobile Expeditionary Laboratory that covered the entire suite of analytical instrumentation, shelter, and supporting equipment. She also has experience in the development of biological agent detection platforms and has evaluated existing bio detection systems including: a DHS funded program for the development of a microtiter screening tool for the screening of biological agents in suspicious powders, an FDA funded method of validation study for the detection of biological material in various food matrices using electrochemiluminescence, a Smiths Detection funded *Ricinus communis* DNA method evaluation, and a DHS funded evaluation of three generic screening tools for the analysis of biological agents in suspicious powders. She had the lead scientific role in the development of several mobile laboratories and kits for the following customers: 20th Support Command DNA Identification Lab, New York City Public Health All Hazards Receipt Facility (BSL-2/3), Defense Threat Reduction Agency (DTRA) Divisible Chem/Bio Sampling Kit, and DTRA Biological Assessment Mobile Laboratory (BAML). She operated and validated the BAML as the lead biologist during an Advanced Test Demonstration.



Session #2 (8:30am – 11:45am)

"National Improvised Explosives Familiarization (NIEF) Threat Briefing and Explosive Demonstration"- Part 1

Lead Instructor: FBI Special Agent Timothy Petrousky

The National Improvised Explosives Familiarization (NIEF) program is a Federal Bureau of Investigation (FBI) initiative to train first responders and the chemical industry on the potential uses of common industrial and household chemicals in the manufacture of explosives. Students will receive information on explosive precursor chemicals, the manufacture of improvised explosives, oversight and tripwire programs, and the hazards of clandestine laboratories. This course includes both classroom instruction and a live range demonstration of some of the explosive materials discussed in class. At the conclusion of the course, participants will have gained a better appreciation for and understanding of the hazards posed by improvised explosives. Topics Include Improvised Explosive

Precursors, Chemical Countermeasures Programs, Improvised Explosive Manufacturing, Clandestine Laboratory Awareness, and a Range Demonstration.

Lead Instructor Bio: FBI Special Agent Timothy Petrousky

Mr. Petrousky is a Special Agent assigned to the Baltimore Field Division of the Federal Bureau of Investigation (FBI).

Mr. Petrousky graduated from the University of Maryland Baltimore County in 1994 with a B.S. in Mechanical Engineering. Mr. Petrousky joined the FBI in 1995 and was assigned to the Explosives Unit, Laboratory Division, FBI Headquarters. During this assignment, Mr. Petrousky coordinated the forensic examinations of post blast evidence, re-constructed improvised explosive devices from post blast evidence, conducted explosive related test shots for trial, instructed at post blast processing schools, and responded to and processed bomb crime scenes. In 1998, Mr. Petrousky became a certified bomb technician.

In 2001, Mr. Petrousky was assigned to the Baltimore Field Division. Mr. Petrousky has investigated, responded to, and support numerous terrorism and WMD related events. Currently, Mr. Petrousky is assigned as the Hazardous Evidence Response Team Leader and Bombing Matters Coordinator on a Crisis Response Squad. Mr. Petrousky's additional duties include Assistant WMD Coordinator, Evidence Response Team support, and Special Events support. Mr. Petrousky is a certified police instructor and is a member of the FBI adjunct faculty program. During Mr. Petrousky's FBI career he has traveled throughout the world for both investigative and training purposes.



Session #3 (8:30am – 11:45am)

“Plug and Play” Training for the Hazmat Technician – Part 1

Instructors: Bruce Galloway, Darryl Meade

This training will build on to last year's “Plug and Play” program and includes new and different scenarios for trainers to use in their own curriculum to enhance the student experience during training evolutions.

Instructor Bios:

Bruce Galloway

Mr. Galloway worked for DuPont for 42 years, and for the last 29 of those years served as the DuPont Experimental Station Fire Chief. In addition, Bruce is a certified HazMat Technician, a Delaware State Fire School Instructor, Past Deputy Chief at Wilmington Manor Fire Company, and a Member of the New Castle County Industrial Hazardous Materials Response Alliance.

Darryl Meade

Over 36 years in the Fire Service. Currently serves as Assistant Chief for the FMC Company in Wilmington, DE area.

HAZMAT Technician, Firefighter and Instructor- Pro Board Certified.

Assistant Chief Meade has been an Instructor at the Delaware State Fire School for 17 years, teaching mainly HAZMAT skills.

Member of New Castle County Industrial Hazardous Materials Response Alliance and serve on training committee. Serves as trainer and is part of New Castle County HAZMAT Decon Units.

Serves Nottingham and Oxford townships as Radiological HAZMAT Officer.

Was part of Chester County, PA. HAZMAT response team.



Session #4 (8:30am – 11:45am)

“Meth Labs and Marijuana Grow Labs”

Instructor: Matthew Higgins, Environmental Scientist IV, DNREC Emergency Prevention & Response Section, Dover, DE

Individuals attending this presentation will gain a thorough understanding of clandestine drug labs and the strategic methods used to safely process these labs. During the presentation attendees will understand the methodology of the process, the importance of evidence photography and seizure, and identifying common procedural tactics that put officers and hazmat response personnel in harm's way. Attendees will understand the importance of refusing to tow vehicles containing One Pot meth labs, but rather to process these meth labs on site due to the increased danger these meth labs present on all roadways in the United States. The final training item will include a new trend that is occurring in numerous states that resembles the One Pot meth lab but possesses a very different, but lethal characteristic.

Instructor Bio: Matthew Higgins

Matthew Higgins is an Environmental Scientist IV with the State of Delaware’s Department of Natural Resources & Environmental Control’s (DNREC) Division of Waste & Hazardous Substance’s Emergency Prevention & Response Section. Mr. Higgins is a Hazardous Materials Response Technician and is an On-Scene Coordinator with the DNREC - Emergency Response Team (ERT), which responds to hazardous material incidents in the State of Delaware. Mr. Higgins is a Certified Hazardous Materials Manager and holds a Bachelor’s of Science Degree in Environmental Sciences from Wesley College. Mr. Higgins has responded to numerous Clandestine Meth Labs in the State of Delaware and Maryland. He has attended several Training Seminars on Clandestine Meth Lab Response, including Safety Officer Training.



Session #5 (8:30am – 11:45am)

“Civil Support Teams (Weapons of Mass Destruction); Capabilities, Utilization, and Employment Trends

Instructors: CPT Marc Evans, Operations Officer 31st Civil Support Team and other subject matter experts assigned to the CST.

This presentation will review how CST's were developed and how the mission has changed in recent years adapting to the emergencies CST's are operating in. This will cover capabilities of Civil Support Teams nationwide and discuss missions and standbys that CST's are regularly dispatched to. Comparison of scaled responses to standby missions will provide a better understanding of what types of incidents CST's function at regularly. The session will conclude with attendees walking through a CST display of vehicles and equipment and handling some of the down range instruments.

Instructor Bio: CPT Marc Evans

CPT Evans is an Army CBRN Officer and has been a member of the CST for 17 years with the last 14 years being in a full-time capacity. Prior to commissioning he served as a Chemical Operations Specialist and originally enlisted in 1990 as a Medical Specialist. He has served on the CST as a CBRN NCO, Survey Team Chief, Survey Section Leader, and has been assigned as the unit Operations Officer since 2014. CPT Evans has Pro Board certifications in Firefighter II, Fire Instructor II, HAZMAT Technician with WMD endorsement and is certified as a nuclear emergency operator by the Defense Nuclear Weapons School.



Session #6 (8:30am-11:45am)

“LEVEL 1 - Marine Firefighter Awareness”

Instructor: Al Huelsenbeck

This is an introduction to the problems associated with marine responses including jurisdiction, operating in the marine environment, terminology, types of ships & facilities, problems unique to marine responses, tactical considerations, safety and incident management.

Instructor Bio: Deputy Chief Huelsenbeck

Deputy Chief Huelsenbeck retired from the Wilmington Fire Department in Wilmington, Delaware. He has a bachelor’s degree in fire service management from the University of Maryland. He is a 38-year veteran of the career fire service and has been serving as a chief since 1987 as a result of competitive testing. He is a USCG licensed Master 100 Gross Tons Near Coastal. He serves as Deputy Chief, Operations for the DE/NJ/PA Maritime Incident Response Team as well as the Board of Directors of TMSA. He is a fire service instructor in New Jersey and Delaware and currently part of the NJ Fire Officer training and certification cadre. He is also a lead instructor with the Delaware River and Bay Marine Fire Fighting Task Force and with the curriculum development group that designed the marine fire-fighting training. He has been involved in several major marine fires including the initial incident commander of the M/V Centaurus in 1989, which can be seen in the American Heat video series. He is one of the leading professionals in Marine Fire Fighting in the U.S. having trained responders from the United States, Canada and Latin America. He is a routine guest speaker on marine fire-fighting throughout the country including a 2000 & 2001 presentation of Marine Fire Fighting Awareness, Operations & Technician hosted by the Boston Fire Department. He was an instructor in Boston’s MIRT sponsored Train-the-Trainer Marine Fire Fighting program. He was a contributor to the 2001 revision of NFPA 1405, USCG Incident Management Guidebook and IFSTA’s Marine Fire Fighting for Land Based Firefighters manual. He has presented the Marine Fire Fighting Training Program at the National Fire Academy. Al is co-author of Rapid Intervention in the Marine Environment that appeared in the July 2001 issue of Fire Engineering. Chief Huelsenbeck is currently the Acting President of the Tri-State Maritime Association (TMSA).



Session #7 (1:00pm – 4:15pm)

“Bio Threat Brief”

Instructor: CARRIE A. POORE, Ph.D., Branch Chief Advanced CBRNE Training Branch

This course will discuss biological agents, characteristics of the different types of bio agents, and the small-scale production of such. Generalized medical effects will be addressed for the main types of bio agents. Basic theory regarding the motivation of using a biological agent will be covered. A discussion on challenges that exist in the development of detection platforms will show what we currently use now and where we are going as technology constantly improves.

Instructor Bio: CARRIE A. POORE, Ph.D., Branch Chief, Advanced CBRNE Training Branch

Dr. Poore serves as the Branch Chief for the Advanced CBRNE Training Branch within the Directorate of Research and Technology for the U.S. Army Edgewood Chemical Biological Center. She has over 14 years of postgraduate experience at ECBC. As the Branch Chief, she leads the execution of training programs and also trains the biology portions of the courses for customers throughout Department of Defense, Department of Justice, Department of State, National Guard Bureau and other federal, state, and local assets involved in the counter-WMD fight. Dr. Poore led the training program for the 20th Support Command’s Heavy Mobile Expeditionary Laboratory that covered the entire suite of analytical instrumentation, shelter, and supporting equipment. She also has experience in the development of biological agent detection platforms and has evaluated existing bio detection systems including: a DHS funded program for the development of a microtiter screening tool for the screening of biological agents in suspicious powders, an FDA funded method of validation study for the detection of biological material in various food matrices using electrochemiluminescence, a Smiths Detection funded *Ricinus communis* DNA method evaluation, and a DHS funded evaluation of three generic screening tools for the analysis of biological agents in suspicious powders. She had the lead scientific role in the development of several mobile laboratories and kits for the following customers: 20th Support Command DNA Identification Lab, New York City Public Health All Hazards Receipt Facility (BSL-2/3), Defense Threat Reduction Agency (DTRA) Divable Chem/Bio Sampling Kit, and DTRA Biological Assessment Mobile Laboratory (BAML). She operated and validated the BAML as the lead biologist during an Advanced Test Demonstration.



Session #8 (1:00pm – 4:15pm)

“National Improvised Explosives Familiarization (NIEF) Threat Briefing and Explosive Demonstration” - Part 2

Lead Instructor: FBI Special Agent Timothy Petrousky

See Session #2 above for the course description and instructor bio.



Session #9 (1:00pm – 4:15pm)

“Plug and Play” Training for the Hazmat Technician – Part 2

Instructors: Bruce Galloway, Darryl Meade

See Session #3 above for the course description and instructor bios.



Session #10 (1:00pm – 4:15pm)

“Fentanyl First Responder”

Instructors: CPT Dale Annis, 31st CST, Lt. David Mick

This session will discuss topics such as first responder protection, DECON and fentanyl detection methods. It will also incorporate information from the DIAC and Public Health regarding fentanyl numbers in Delaware. It will also discuss and provide hand-outs with information and guidance from the various State and Federal agencies available to date. Over all it will be a roll up of everything the instructors have learned and they hope to be an outlet for information compiled from sources some of our local responders may not know about or have easy access to.

Instructor Bios:

CPT Dale Annis:

Robert Dale Annis, spent the last 8 years serving as Nuclear Medicine Science Officer for the 31st Civil Support Team. 24 total years in military Chem/Bio warfare defense.

Recently participated in the CST program efforts to develop rapid field detection of Fentanyl and its analogs utilizing the current equipment we possess in our inventory in order to enhance first responder safety and public health.

Lt. David Mick:

Special Operations Officer, KCEMS

Paramedic 25+ years

Kent County Hazmat Decon, Hazmat Technician

Carlisle FD 45 years, Chief Engineer 6 years

Kent County Special Operations Team



Session #11 (1:00pm – 4:15pm)

“Hazardous Materials Emergencies in Delaware, Past, Present and Future”

Instructors: Jamie Bethard, Joe Leonetti

In this workshop we will explore the early beginnings of hazardous materials responses in Delaware starting at the infamous Odessa incident which led to the formation of the SERT plan we have today. The plan will be explained in detail in regards to roles and responsibilities of the response agencies. In addition, the resources we have statewide to respond to incidents, i.e. Decon. Units, spill trailers, NCCIHMRAs, etc. will be identified and their capabilities. Finally, incidents which have occurred in the past will be highlighted with an open discussion as to what we had then and what we may be able to do today. Help us shape the future of Hazmat response in Delaware by attending and providing us YOUR vision for the future!

Instructor Bios:

Jamie Bethard, Chief/Manager, DNREC Emergency Prevention and Response Section (EPRS)

Jamie is a third generation Delaware firefighter and life member of the Magnolia Vol. Fire Co. Jamie has worked for the State of Delaware as an Industrial Hygienist, Environmental Health Specialist III (lead responder for DPH chemical emergencies) and for the last 29 years with DNREC’s Emergency Response Branch as an On-Scene Coordinator. Jamie is currently the Chief/Manager of the EPRS which has Emergency Response, Accidental Release Prevention and Emergency Planning and Community Right to Know. Jamie has a Bachelor’s degree in Fire & Safety Engineering and a Masters in Safety Engineering.

Joe Leonetti, Chief

Joe has been a member of the Delaware Fire Service for over 50 years. He has served as a Firefighter/EMT, Captain, Assistant Chief, Deputy Chief and Fire Chief with the Elsmere Fire Company. Joe is an instructor for the National Fire Academy, the New Mexico Tech Energetic Materials program, and with the Delaware State Fire School. Joe is a United States Army veteran. Joe has been the Team Leader of the New Castle County Special Operations Hazmat/Decon Team for the past 35 years; Joe serves on numerous State and County Hazardous Materials and Homeland Security committees.

Joe served as the Emergency Manager for New Castle County, Delaware before going to work at St. Francis Hospital in Wilmington, Delaware, where he is currently the Sr. Director of Operations for Support Services. This position also includes Joe being the Director of Emergency Medical Services, which provides 9-1-1 BLS service to the City of Wilmington.



Session #12 (1:00pm – 4:15pm)

“Oil Spill 101 – Basic Information for Oil Spill Response and Recovery”

Instructors: Richard M. Gaudiosi, Bob Poole, Scott Bossert, John Carlin

This session will provide an overview of the Delaware Bay and River Cooperative. It will discuss landside, docks and protection strategies as well as boat operations and open water skimming. It will also cover safety and training in oil spill response. The session will also include an oil spill equipment demonstration.

Instructor Bios:

Richard M. Gaudiosi, President, DBRC Inc.

Richard M. Gaudiosi assumed the position of President of the Delaware Bay and River Cooperative, Inc. on July 1, 2009. DBRC is a non-profit cooperative formed by industry in 1991 to respond to oil spills in the Delaware River and Bay. In this capacity, Rich was appointed to be the Oil Spill Removal Organization (OSRO) representative on the Executive Steering Committee of the Delaware Bay Area Committee, who oversees the oil spill prevention, preparedness and response activities of the port.

Mr. Gaudiosi is a retired US Coast Guard officer with more than 30 years' experience in marine environmental response, prevention, preparedness, and diving and salvage. He is a former Commanding Officer of the USCG Atlantic Strike Team and has been involved in numerous significant oil and hazardous material spills over the years, including the Exxon Valdez. He has also managed several national environmental response and preparedness programs for the US Coast Guard.

Mr. Gaudiosi came to DBRC from Booz Allen Hamilton where he held the position of Associate, and managed the Port Security Training and Exercise Program (PortSTEP) and the Intermodal Security Training and Exercise Program (I-STEP) for the Transportation Security Administration. Through these programs TSA conducted Security exercises with all modes of transportation since 1994.

Mr. Gaudiosi holds a Master's of Science Degree in Environmental Science and Policy from George Mason University.

Bob Poole, Field Supervisor, DBRC Inc.

Bob Poole is a field supervisor in the Linwood office of Delaware Bay & River Cooperative, Inc., Bob has over 30 years of experience in the environmental field, including emergency response management, logistics, and industrial services. With 14 years at the DBRC, Bob's duties include emergency oil spill response in the Delaware Valley Region, DBRC member and contractor training, insure proper maintenance and readiness of oil booms, trailers and oil skimming equipment. Bob also makes recommendations for purchases by DBRC to enhance the effectiveness and scope of coverage of DBRC for response activities.

Bob performed clean up actions for the EPA and NJDEP, supervised the cleanup of several major oil spills in New York Harbor and Delaware Valley Region. He also responded to the 2001 World Trade Center to coordinate personnel and equipment decontamination activities with the U.S. Coast Guard, and the Deepwater Horizon to coordinate on water skimming operations at Pascagoula, MS.

Bob is very active with the U.S. Coast Guard Sector Delaware Bay with the updating of the geographic response plan and a member of the area committee. Bob takes great pride in the protection of the natural resources that the Delaware River and Bay have to offer and wants to make sure they are available to future generations.

When not at the office you will find Bob spending time with his family to include several weekends at the NJ shore, fishing and boating on the Delaware River.

EDUCATION & CREDENTIALS

Pennsville Memorial High School
U.S. Coast Guard Petty Officer
EPA Region II Certified Response Manager
U.S. Coast Guard Master 100 Gross Tons
NJ Firefighter I & II Certification
CDL Class B Driver's License

Scott Bossert, Marine Supervisor, DBRC Inc.

Scott Bossert received a Bachelor's of Science from Maine Maritime Academy. He was an officer in the U.S. Navy and holds a U. S. Coast Guard Masters license. Scott began working on Oil Spill Response Vessels in Alaska in 1992 and Joined DBRC in 1994 as the Mate on DELRIVER. He has been the Marine Supervisor since 2011. Scott is a DSFS Instructor and a member of Milton Fire Department.

John Carlin, Training Coordinator, DBRC Inc.

John Carlin is a 40-year member of the fire service in New Jersey. Retired as Chief in 2017 after a 32-year career with PSEG Nuclear Fire Department at the Salem and Hope Creek Generating Stations. Served numerous roles, including Chief, in the Blackwood Fire Company and is an active instructor at the Camden County NJ Fire Academy, coordinating industrial and fire officer training. John joined the DBRC as an instructor in 2016 and is currently the training coordinator.



“No Cost” for Workshop Attendees!

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Hosted by

Delaware State Fire School - 1461 Chestnut Grove, Dover, DE 19904



“Educating Responders for Today and Tomorrow”

For Questions Regarding this Workshop Contact:

For Questions Regarding this Workshop, Contact Jerry Brennan:

Phone: (302) 739-4773 or via email at jerry.brennan@state.de.us

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