

# WORKSHOP DESCRIPTIONS

*\*Please note: This list is subject to change.*

## **Active Shooter Preparedness: Creating a Plan for Your Facility**

An active shooter incident can happen anywhere at any time. Taking steps to enhance preparedness for this incident can make a difference if your workplace is in this situation. This workshop will review approaches for preparation for an active shooter and how to develop an emergency action plan for such an event. *Offered in Sessions A and F.*

## **An Overview of the Tony Mazzocchi Center Website and New Media Resources**

This workshop will demonstrate new media trends such as social media networks, automatic email updates, smartphone applications and more through the Tony Mazzocchi Center. The session will examine how to navigate and utilize the TMC website to learn about emerging developments in occupational health and safety; read and share success stories; and obtain information about health, safety and environmental training programs available. Participants will also learn how to contact the TMC to initiate training requests, view and sign up for open classes. *Offered in Sessions C and E.*

## **Analysis of Changes for 2018 NFPA 70E: What Updates You Need to Know**

NFPA 70E, Standard for Electrical Safety in the Workplace, 2018 edition was released October 2017. Changes were made to continue the focus on Safety-by-Design and Risk Assessment that started with the 2015 edition. This includes prioritizing the elimination of electrical hazards, and accounting for potential human error while working with electricity. Program and Training requirements have been adjusted. Article 120 (Establishing an Electrically Safe Work Condition) was completely rearranged. This session will provide an overview of the changes and how these can be implemented in your facilities. *Offered in Sessions C, D and E.*

## **Boilers, Steam Systems, Ovens, Furnaces – How Safe Are They and How to Improve Their Safety**

This session will allow you to recognize potential safety problems associated with boilers, steam systems, ovens, and/or furnaces, and understand what is supposed to happen when fuel or gas lines are installed and/or repaired. This session will also discuss the level of safety that workers are entitled to based on requirements from civil courts, company standards, OSHA, nationally recognized consensus codes, standards and recommended practices. *Offered in Sessions B, C and D.*

## **Building and Implementing a Flame Resistant (FR) Clothing Program for the Arc Flash Hazard**

The proper selection of PPE is very important—especially for those facing a demonstrated arc flash hazard. This workshop will guide attendees through the proper selection, use, care and maintenance of flame resistant (FR) and arc rated (AR) garments to protect against arc flash. Attendees will gain a thorough understanding of the regulations, standards and program implementation “best practices,” including detailed information on layering for arc flash protection. *Offered in Sessions C and D.*

## **Building and Implementing a Flame Resistant (FR) Clothing Program for Flash Fire Hazards**

There is still a lot of misleading, inaccurate and incorrect information regarding the selection of proper FR Clothing – OSHA 1910.132 makes it clear that training on PPE is required. How do you train on FR clothing? What is your responsibility for care and maintenance of your FR clothing? We will cover what guidance is provided by the standards and review best practices in selecting, using and caring for your FR clothing to assist in your organization being compliant. *Offered in Sessions A and B.*

### **Canadian Health and Safety Update**

This workshop will discuss the current health and safety initiatives in Districts 3, 5 and 6, and provide an update from health and safety coordinators across Canada. *Offered in Session C.*

### **Case Studies from OSHA-Investigated Fatalities**

This workshop, led by OSHA compliance officers involved in fatality investigations, will describe and detail a variety of these workplace fatality inspections. The presenters will be referencing their fatality inspection experiences, covering hazards identified, citations, abatement and follow-up solutions at the facilities involved. *Offered in Sessions C and D.*

### **Charting the History of an Incident**

This course will teach participants how to use a new type of charting to explore past events. It examines how missed opportunities to fix past incidents can contribute to a catastrophic event. It also explores barriers to reporting hazards, incidents and near-misses, and ways to eliminate those barriers. *Offered in Sessions B, D, F, G and H.*

### **Clearing the Air About Combustible Dust Hazards and Safe Practices**

Combustible dust hazards exploded into focus with several fatal incidents in 2003 and, despite some increased attention, fires and explosions continue to occur 15 years later. NFPA standards on combustible dusts identify the hazards, including flash fires and explosions, and establish strategies for safeguarding plants or operations where combustible solids are stored, handled or processed. This workshop will also help you to understand the scope and application of the standards, and how to assess your worksite for dust hazards and implement protective measures. *Offered in Sessions C and D.*

### **Commonly Cited OSHA Industrial Hygiene Standards**

Workplace occupational health concerns remain a prevalent concern of USW members and management. This workshop provides an overview of several industrial hygiene regulations. The presenter will be referencing inspection experiences while covering particular health hazards and associated standards. Participants are invited to bring their workplace experiences and questions about health hazards related to OSHA standards to this interactive workshop. *Offered in Sessions E and F.*

### **Controlling Pneumatic Energy**

Lock-out procedures should be applied to different types of stored energy. This workshop will review the process of removing stored pneumatic energy through a demonstration using a fully automated “can crushing” machine. The Can Crusher incorporates modern technology with HMI touch screen operation, with auto and manual controls. *Offered in Sessions E and F.*

### **Communicating Lessons Learned**

Investigating injuries and near-misses is a key piece of the puzzle in figuring out how to prevent injuries and illnesses at our workplaces. But just knowing isn’t enough. This class will provide skills and strategies to sharing the information you learn through investigations with others in your facility, your employer, your industry and your union. *Offered in Sessions C and H.*

### **Confined Space Safety: Changing Practice to Save Lives**

Twenty-five years have passed since OSHA issued the Permit-Required Confined Space Standard (29 CFR 1910.146). Fatality rates at the time approximated 200 annually and now range between 90 and 100 annually. While improvement can be shown, any further loss due to a confined space incident is too many. The incidents occurring today are not due to new hazards or unknown conditions – the factors

contributing to confined space injuries and deaths today are the same as those from 25 years ago. NFPA recently issued its guide for confined space safety, NFPA 350. It is not full of new requirements; rather it targets the primary areas of concern within most worksites and presents guidance on hazard management and control to ensure safe entry and work within confined spaces of all types. It's time to change practice regarding confined spaces to save lives. *Offered in Sessions E and F.*

#### **Disaster Response: Update from the USWTMC Specialized Emergency Response Trainers (SERTs)**

This workshop will highlight the experience of trainers who were deployed to mobilize communities and educate members after the occurrence of natural disasters such as Hurricanes Harvey and Maria.

*Offered in Sessions C and D.*

#### **Department of Energy (DOE) Safety of Science Initiative**

Since 1989, U.S. Department of Energy (DOE), Office of Environmental Management (EM) has been engaged in the mission of environmental restoration, radioactive waste management, spent nuclear fuel and special nuclear material disposition, and nuclear facility decommissioning. Rooted in the EM mission is the science of safety whereby scientific and technological advancements are infused and integrated into the routines of work planning and work execution in a manner that improves safety and quality and reduces the government's cleanup liability. To address the high-hazard, high-risk, high-consequence work, EM is actively promoting the use of advanced robotics as a key enabling technology. EM is also promoting the use of robotics to accomplish routine work tasks. The workshop will highlight key activities and initiatives EM is undertaking to help the Atomic Energy Workers do their important work safer and smarter. *Offered in Sessions A and D.*

#### **Does your safety program focus on controlling workers or providing them with what they need? Do we need a New View?**

Traditionally, most programs define safety as the absence of incidents – low incident rates mean the workplace is safe. Many organizations think that the way to achieve low rates is to control workers through a massive web of procedures and surveillance processes looking for violations and noncompliance. A new approach in workplace health and safety is to recognize the unique contribution of workers, who often rescue the system. They get the job done even when equipment and procedures are inadequate. This *New View* recognizes the importance of providing workers what they need in order to be successful. Instead of measuring lagging indicators such as injury rates, the organization measures how well it is providing workers what they need. (Todd Conklin, a recognized international expert on the New View, will be the conference keynote speaker Thursday morning.) *Offered in Sessions C and D.*

#### **Environmental Laws: Important Tools to Improve Workplace Health and Safety**

Many environmental laws include measures for worker protection. In this workshop you will learn how to use environmental data to identify workplace hazards and strategies for using environmental laws to reduce them. *Offered in Sessions E and F.*

#### **Ergonomics Awareness**

This workshop will introduce participants to the injuries of the hands, arms, back and lower extremities caused by risk factors like repetition, force and posture. Methods for eliminating risk will be discussed.

*Offered in Sessions E and F.*

#### **Exposing Chemical Exposures: Identifying and Eliminating Harmful Chemicals Where We Work and Live**

Dangerous chemicals surround us in our workplaces, our communities and our homes. Many of these

can cause cancer and other chronic and fatal diseases. But it doesn't have to be that way. Safer alternatives exist for many harmful chemicals, and through "green chemistry," scientists can design safe substitutes for many more. This workshop will help participants better understand the causes of exposures to a set of particularly harmful chemicals, the solutions needed to prevent those exposures, and the action steps union members and community activists can take to transition away from toxics where we work and live. *Offered as a two-part class; Sessions B and C, repeating in Sessions E and F.*

### **Extended and Irregular Working Hours, Shift Work and Health and Safety: What's the Problem, and what are the Solutions?**

This workshop explores the many risks to health, safety and the quality of life caused by working non-standard or long hours. Harm can come in the form of injury on and off the job; sleep disorders, stress, mental health problems, cardiovascular disease and even some forms of cancer. We will also examine various types of non-standard shifts, how to achieve more humane shift schedules and ways to minimize the harmful effects of unavoidable shift work. *Offered in Sessions A and B.*

### **Fentanyl Exposure During Medical Responses**

Fentanyl poses a potential hazard to a variety of responders who could come into contact with these drugs. Potential exposure to this substance could result in a variety of symptoms that can include the rapid onset of life-threatening respiratory depression. Although there are no established federal or consensus occupational exposure limits for fentanyl or its analogs, this workshop will review the hazards associated with fentanyl exposure and review controls to protect yourself. *Offered in Sessions C and D.*

### **Good Practices for Process Safety Management**

Process safety management (PSM) is a systems approach to health and safety. Current PSM good practices go far beyond OSHA compliance and are valuable in a wide variety of workplaces. These practices include programs that address employee participation, human factors, and management of change of equipment, chemicals and procedures. It also includes management of organizational changes such as staffing and scheduling. This workshop will discuss state-of-the-art process safety practices that can make big improvements in your workplace. *Offered in Sessions E and F.*

### **Hazard Mapping: Part 1**

What hazards can be identified when workers combine their knowledge and skill to create a special kind of graphic representation of the workplace? In this session, participants will learn to use a valuable tool of hazard mapping to identify hazards. *Offered in Sessions A, C, E and G.*

### **Hazard Mapping: Part 2 (Part 1 is not a pre-requisite.)**

This workshop will discuss the USW Tony Mazzocchi Center's Systems of Safety for addressing workplace health and safety hazards as well as utilizing the standard Hierarchy of Controls. These two complementary approaches to controlling hazards identified by inspections, audits and hazard maps are vital to a comprehensive health and safety program. Part 1 is not a pre-requisite. *Offered in Sessions B, D, F and H.*

### **Health Hazard Evaluation Program: How NIOSH Can Help You**

Have you ever had a situation where you needed more information about hazardous exposures or the dangers of work processes, and wanted recommendations about how identified problems should be addressed? Then a NIOSH (National Institute for Occupational Safety and Health) Health Hazard Evaluation could be for you! This workshop will provide participants with an understanding of the role of the NIOSH Health Hazard Evaluation program in helping to ensure safe and healthy workplaces across

the United States. Participants will learn about the history of the program, what services it provides, how to access those services and what to expect when making a request. Examples of recent evaluations in a variety of work settings will be shared. *Offered in Sessions C and D.*

### **How to Protect Yourself Before Working on Scaffolding**

This workshop will discuss safety procedures while working with scaffolding. There will also be hands-on scaffolding assembly and a review of relevant OSHA standards. *Offered in Sessions E and F.*

### **Hot Work: Hazard Awareness and Safe Practices**

NFPA data shows that an average of 4,440 fires per year are caused by hot work, which means they could have been prevented by following the steps outlined in this presentation. The NFPA standard for hot work, NFPA 51B, is incorporated into the OSHA regulations for welding, cutting and brazing, and it characterizes the hazards from hot work and shows how they contribute to starting fires. The standard establishes a framework built around the hot work safety team and permit documentation to ensure safety at all jobsites where hot work is performed. *Offered in Sessions A and B.*

### **Hydraulics: A Bone Crusher**

Hydraulic engineered equipment in our workplaces provides a great deal of value in its effective use to assist us in our work; however, there are numerous health and safety hazards that each of us should be cognizant of when working on and around these pieces of equipment. Workshop participants will review the safety-related hazards of hydraulic equipment and understand key issues to look out for in our work. *Offered in Sessions C and D.*

### **Improving Mine Safety: Examination of Workplaces in Metal and Nonmetal Mines**

To enhance the quality of working place examinations in Metal and Nonmetal (MNM) mines, the Mine Safety and Health Administration (MSHA) has worked toward establishing a rule that would require mine operators to conduct working place examinations to identify hazards before work begins in an area, record the hazards before the end of each shift and educate miners on hazards in their workplace. This workshop will discuss key elements of MSHA's workplace examination initiative and how it can impact your worksite. *Offered in Sessions E and F.*

### **In-Plant Railroad Safety**

In-plant railroads are a serious hazard in industrial facilities. This workshop will examine actual case studies of in-plant railroads where labor and management were able to work together to identify effective measures to modernize and upgrade railroad safety. Topics include switching practices, communication procedures, securing equipment and track worker safety. *Offered in Sessions E and F.*

### **Incident Investigations within the New View of Safety**

The New View of Safety is recognition that safety is not measured by the absence of fatalities, serious injuries or ill health in the workplace; it is the presence of knowledge, processes, resources, resilience and technology committed to minimizing the risk from the hazards present in the workplace. In this new view, organizations recognize that situations that had either negative or positive impacts on worker safety represent important opportunities to learn how to improve that knowledge and those processes, resources and technology to further reduce the safety risk in the workplace. The effort to learn from these situations typically involves some form of incident investigation. *Offered in Sessions B, C, D, E and F.*

### **Increasing the Effectiveness of Labor-Management Safety and Health Committees**

Effective safety and health committees are cornerstones of effective and comprehensive workplace safety and health programs, and are essential to the important work of finding and fixing hazards. This workshop will review elements of effective committees, discuss common pitfalls, and explore how to avoid pitfalls and implement and sustain fundamental elements that make committees effective.

*Offered in Sessions B and C.*

### **Identifying Physical Hazards and Organizational Hazards**

A first step in addressing workplace health and safety problems is to identify all the hazards. Finding and fixing physical hazards is very important but isn't enough. Organizational hazards such as understaffing and conflicting or excessive job demands place significant pressure on those performing work. Learn how we can engage workers to understand how work is actually performed and identify both the physical and organizational hazards that threaten their health and safety. *Offered in Sessions E and F.*

### **Infectious Diseases in the Workplace**

OSHA 1910.1030 provides workplace protections for bloodborne pathogens, but does not provide controls for infectious diseases. This workshop provides information on how infectious diseases are spread at work, how to minimize exposure and what employers should do to protect their workers.

*Offered in Sessions A and B.*

### **Introduction to the Triangle of Prevention (TOP) Program**

This workshop provides an introduction to the USW's Triangle of Prevention Program, a program that engages both local unions and employers in incident and near-miss reporting and investigation, causal factor analysis, recommending and tracking solutions, and learning and sharing lessons. During this workshop, participants will cover the elements of TOP, its history and its accomplishments. The workshop is designed for participants whose workplaces are not in TOP, but are interested in learning more about TOP, and may be interested in finding out if TOP can help their workplace move toward a more comprehensive health and safety program. *Offered in Sessions A, C and G.*

### **Legal Issues During OSHA Inspections**

This workshop covers the legal issues that often arise during an OSHA inspection, from the formulation of the complaint, to participation in the inspection walk-around, the follow-up with the agency after the walk around before a decision on the citation, and the decision whether to file a notice of contest. It includes a discussion of recent cases under the OSH Act involving the general duty clause and examination of the issues that arise when non-employee representatives participate in walk-around inspections. *Offered in Sessions A and B.*

### **Lessons from U.S. Chemical Safety Board Disaster Investigations**

The U.S. Chemical Safety and Hazard Investigation Board (CSB), an independent federal agency, investigates major chemical incidents across the nation and makes recommendations for prevention to OSHA, EPA, industry and labor organizations. This workshop will discuss findings from several recent CSB investigations and how recurrence can be prevented. Lessons can be broadly applicable beyond the sites investigated. *Offered in Sessions B, D and F.*

### **Looking for Trouble – Experience in the UK and North America**

The USW and Unite unions have launched Looking for Trouble – A Comprehensive Health and Safety Program. The unions' model comprehensive health and safety program is based on the experience of years of workplace success and workplace tragedy. In this workshop, participants will review the

preliminary implementation of Looking for Trouble in the U.S. and U.K., and discuss further developments with the program. *Offered in Sessions B and D.*

### **Mine Safety and Health – Report on USW’s Alpha-Funded Research Project on Safety and Health Programs and Committees in USW-Represented Metal and Non-Metal Mines in the U.S.**

MSHA has long recommended that mines implement effective safety and health programs. In 2013, the USW Tony Mazzocchi Center was awarded funding from the Alpha Foundation (a fund created by a court settlement following the tragic death of 29 miners in 2010 at the Upper Big Branch coal mine) to study the characteristics of and barriers to effective hazard identification and control programs in USW-represented metal and non-metal mines in the U.S. This workshop will present and discuss results from this multi-year research project. *Offered in Session F.*

### **Miners’ Rights: Dealing with Mine Safety and Health Issues**

It is important to know and understand the rights of miners under the Federal Mine Safety and Health Act, as the exercise of these rights ARE essential to the health and safety of mine operations. This class will present an overview of miners’ rights and protections under the Mine Act, including: the filing of 103(g) safety complaints with MSHA, participation in MSHA inspections as a miner’s representative, being interviewed by MSHA officials as part of an investigation or inspection, miners’ protected activities under section 105(c) discrimination claims such as being terminated for refusing to work in hazardous conditions and making safety complaints to management and a miner’s right to training. We will also discuss hot topics including MSHA enforcement involving claims of management interference with protected rights, the right to serve as a miner’s representative during a lockout as compared to during a strike, and compensation claims under section 111. *Offered in Sessions C and D.*

### **New Technology for Industrial Hygiene Programs: A Framework for Integrating Technology into Your Current Program**

How wearable technology is used in occupational safety and health research and practice is evolving. Wearable sensors can detect and alert workers of harmful exposures and constantly monitor environmental conditions. For example, NIOSH and partners developed the Portable Dust Meter used in underground mining to measure how much dust a worker is exposed to during a work shift. This workshop will review new technology and discuss their role in traditional industrial hygiene programs. *Offered in Sessions E and F.*

### **New Worker Awareness Program**

New workers to the jobs and tasks are more likely to be killed or injured at work. This workshop will help participants design and deliver new worker awareness programs in their workplaces and in schools, using successful programs in Canada as examples. Participants will review an existing successful training program developed and used by the USW in Canada. *Offered in Sessions E and F.*

### **NFPA 70B, Recommended Practice for Electrical Equipment Maintenance**

NFPA 70B, *Recommended Practice for Electrical Equipment Maintenance*, is the only exhaustive consensus electrical maintenance standard in the world. NFPA 70E Standard for Electrical Safety in the Workplace directs employers to maintain electrical equipment as a foundation for electrical safety properly. Yet, over 98 percent of electrical workers do not know the existence of ANY electrical safety standard, and over 99 percent do not know of NFPA 70B. This workshop will give a quick overview of the NFPA 70B and the importance of performing electrical maintenance. *Offered in Sessions B and F.*

### **Occupational Health: How Work Affects Diseases of Everyday Life**

Occupational health often focuses on specialized illnesses like asbestosis, mesotheliom, or lead poisoning. Workers frequently get the common illnesses that everybody gets, like heart disease, emphysema, cancer and diabetes. The contributory role of work is usually ignored. Participants in this workshop will review recent findings on the many ways that work contributes to these illnesses and consider how changes in workplace exposures can reduce their risk. The workshop is led by experts in occupational medicine. *Offered in Sessions B and D.*

### **Occupational Stress**

Occupational stress is one of the major health hazards of the modern workplace. It accounts for much of the physical illness, substance abuse and family problems experienced by millions of workers. This workshop will discuss how to identify and resolve the causes of job stress. *Offered in Sessions A and B.*

### **Organizing Workers' Memorial Day Events**

Workers' Memorial Day or Day of Mourning (held every year on April 28) is the time to pay tribute to workers killed, injured or made ill on the job. It is also an important opportunity to use these tragic stories to highlight the need for increased worker protections in your workplace, to the public and in the community. Workers' memorial events and reports are becoming more common in workplaces, cities, towns, counties across our countries and around the world. Join us to hear from organizations that help plan these events. This workshop will help you get involved in your workplace and community activities for Workers' Memorial Day or Day of Mourning, or help you to organize an event at your workplace or in your community and join together with a network of thousands of others who are doing the same. *Offered in Session A.*

### **Overview of the USW's Emergency Response Team (ERT) Program**

When a serious injury or fatality occurs at a USW-represented workplace, the United Steelworkers Emergency Response Team provides valuable support to the family, local unions and communities. This workshop will discuss the benefits provided through the ERT Program and discuss how impactful the program is from different perspectives. *Offered in Sessions C and D.*

### **Post-Traumatic Stress Disorder (PTSD) in the Workplace**

The victims of traumatic workplace events extend beyond the physically injured and their families. This workshop will discuss the emotional impact of fatal accidents, workplace violence, and catastrophic fires, explosions and toxic releases. We will offer practical real-world knowledge, skills and suggestions on how to manage the grief and stress resulting from such tragedies, and include participatory problem-solving. We will also discuss research on the high level of PTSD in our USW local unions. *Offered in Sessions E and F.*

### **Practical Industrial Hygiene**

Industrial Hygiene is often described in confusing language and endless numbers! In plain language, it's all about identifying health hazards and cleaning up workplaces. Work shouldn't have to be unhealthy or even deadly. Yet an estimated 50,000 workers die each year in the United States from exposures on the job. There are lots of ways to clean up workplaces and control or reduce health hazards. Exposures to deadly dust (silica, beryllium), poison fumes (chromium, lead), toxic smoke (welding, etc.) and noise can be controlled. The time is right to get serious and make improvements in the workplace – come to this lively discussion to learn about tools for cleaning up the workplace. *Offered in Sessions B and D.*

### **Preventing Exposures to Lead at Work**

Lead is a toxic substance and exposure to lead has ONLY negative health effects, both short- and long-term. Lead exposures at work can harm you, and lead brought home on your work clothes can harm your family. This workshop will provide information about the serious health effects of lead exposure; how to evaluate and assess the potential for exposures at work; methods to eliminate/control/reduce exposures using a systems-of-safety approach; and requirements of the OSHA Lead Standard. We will explore different approaches to comply with the law and to make working with lead safer. This strategic approach will be illustrated using examples of high lead exposures in telecommunications during Hurricane Sandy-related disaster response activities. *Offered in Sessions C, D, G and H.*

### **Preventing Workplace Violence**

Workshop participants will review the types of violence that occur in today's workplaces, from the health care and service sector to industrial facilities to transportation and more; discuss the underlying causes of these events; and identify what unions and employers can do to prevent the conditions that lead to violence. The workshop will explore specific tools such as inspections, identifying risk factors for violence, the use of committees, analyzing incident and injury data, conducting surveys, organizing focus groups, and reviewing policies and practices to assure effectiveness. *Offered in Sessions A and B.*

### **Protecting Our Health and Safety on the Job through Regulation: How We Got Here and Where We're Headed**

Congress passed the Occupational Safety and Health Act to ensure worker and workplace safety and health. Everyday work is being done through the regulatory and legislative process, both federally and at the state level, to make our workplaces safer. This workshop will walk through step by step how safety and environmental regulations are passed and how to be involved in the process. Learn about recent developments in safety and health standards, ongoing work to improve our laws, and efforts to address concerns in specific industries, from healthcare to manufacturing and more. *Offered in Sessions C and D.*

### **Reflections from the Former Heads of MSHA and OSHA**

The USW recognizes one or more people from outside of the union for their exemplary work benefitting workers and the union with the J. William Lloyd Award. Joe Main and Dr. David Michaels are the recipients of the 2018 J. William Lloyd Award.

Joe Main served as the assistant secretary of the Mine Safety and Health Administration (MSHA) from 2009 to 2017. As head of MSHA, Mr. Main was the driving force behind many initiatives aimed to improve the health and safety of miners, and the regulatory framework that protects miners at work. Before his work at MSHA, he pursued a long career in mining and with the United Mine Workers including holding the position of administrator of the UMWA Occupational Health and Safety Department, where he oversaw health and safety programs for the union. Dr. Michaels was the longest-serving assistant secretary of the Occupational Safety and Health Administration (OSHA), heading the Administration from 2009 to 2017. Dr. Michaels increased focus on safety for workers in high hazard industries, worker whistleblower protections and the OSHA silica standard. Prior to working at OSHA, he served as the assistant secretary for environment, safety and health at the U.S. Department of Energy, and as a professor of public health at George Washington University. Mr. Main and Dr. Michaels will both provide an interactive discussion of their work, accomplishments and challenges for participants in this session. There will be plenty of opportunity for welcomed questions and discussion with participants. *Offered in Session A.*

### **Review of the Environmental Protection Agency (EPA)'s Risk Management Plan (RMP) Rule**

The Risk Management Plan (RMP) Rule implements Section 112(r) of the 1990 Clean Air Act amendments and requires facilities that use extremely hazardous substances to resubmit their plan to the EPA every five years. These plans provide valuable information to first responders and communities about the potential hazards in their area. This workshop will review the RMP Rule and current amendments that can affect your workplace. *Offered in Sessions B and C.*

### **Rigging Awareness**

Gain a better understanding of basic rigging. This includes identifying a variety of "Below the Hook" lifting devices, determining load weights and center of gravity, reviewing of best practices, and covering federal and state requirements and consensus standards relevant to crane operation. The workshop will also look at case studies and perform a variety of tabletop demonstrations using "little blue." *Offered in Sessions C and D.*

### **Sexual Assault and Harassment in the Workplace: What Is Truly Needed to Prevent, Address and Remedy This Pervasive and Toxic Problem**

Despite decades of legal, policy and training efforts to combat workplace sexual assault and harassment, new revelations are emerging on a weekly, if not daily, basis on sexual assault and harassment in the places where people work. These are places where movie stars, fruit pickers, members of Congress, miners, hotel workers, university staff, health care workers, public sector workers, factory workers and many more go to work every day. This workshop is designed to hear from participants about your experiences with workplace sexual assault, harassment and related topics – what's happening where you work, what is in place that you believe is working, and what is truly needed to prevent and address on-going problems. This workshop will explore, discuss and provide new tools for combatting workplace sexual violence and protecting those who speak out. *Offered in Sessions E and F.*

### **Sharing good practices; what chemical and manufacturing industries can learn from other high hazard industries.**

This workshop will have participants discuss the apparent success of other high hazard industries in improving safety. The workshop will discuss the attributes of some other industries (aviation, nuclear power, etc.) and the evolution of safety in these sectors and will discuss the potential approaches which could be useful in improving safety performance in the chemical and manufacturing industries. *Offered in Sessions B and C.*

### **The Case for an Electrical Safety Program**

Now that the consensus standard for electrical safety in the workplace, NFPA 70E, has most clearly recognized that the condition of electrical equipment and maintenance is a necessary consideration in an electrical safety program, employers must develop their electrical maintenance program in harmony with their electrical safety program. This should be the easiest justification of any of the leading safety subject areas. This presentation demonstrates that a good electrical safety program is automatically coupled with a good electrical maintenance program and will lead to higher reliability, longer life of equipment and increased safety that can prevent catastrophes. *Offered in Sessions C, D and E.*

### **The Legal Process after OSHA Citations Are Issued**

This workshop covers the legal framework for resolving an OSHA case after a citation was issued. It reviews the procedures of the Occupational Safety and Review Commission, the issues that arise during settlement negotiations and discusses other recent legal developments. *Offered in Sessions C and D.*

### **Tools and Processes to Identify and Control Workplace Hazards**

Serious hazards are numerous in most workplaces. Whether it's a fall hazard, electrical or staffing problem, there are a lot of hazards to identify and control to make workplaces safer. Those who have specific health and safety roles have a hard job, including being faced with these tough questions: How do we figure out how to prioritize what to work on? How do we know what the most dangerous hazards in any workplace are? How can we continue to make progress towards a better health and safety program? Finding and fixing physical hazards is very important but it isn't enough. Organizational hazards such as budget cuts and fear of reporting incidents create system deficiencies. These result in conflicting goals and reduce resources such as staffing, proper equipment and maintenance issues. They can place significant pressure on those performing work, increasing serious hazards. Learn about the tools that can help us engage workers to understand how work is actually performed. Identify and control both the physical and organizational hazards that threaten health and safety while bringing more workers into the health and safety program. *Offered in Sessions E and F.*

### **Tools to Track Workplace Injuries and Illnesses and Prevent or Address Retaliation Related to Injury/Illness Reporting – Understanding and Using OSHA's Revised Recordkeeping Rule**

In workplaces covered by OSHA recordkeeping requirements, it is important for workers, unions and management representatives involved with workplace health and safety to be familiar with the requirements of recordkeeping rules. This workshop provides an overview of the OSHA recordkeeping standard including an update on the recent provisions of the rule. *Offered in Sessions B, C and D.*

### **Understanding Occupational Skin Diseases**

Occupational skin diseases are the second most common type of occupational disease. NIOSH estimates that more than 13 million U.S. workers are potentially exposed to chemicals that can be absorbed through their skin. Irritant contact dermatitis, allergic contact dermatitis, skin cancer, infections and injuries are among the types of occupational skin diseases. This workshop will review several different types of occupational skin diseases and review methods for controlling and preventing dermal exposure. *Offered in Sessions E and F.*

### **USW Approach to Climate Change: An Update on State, Federal and Global Climate Policy and How it May Impact Our Jobs, Our Communities and Our Environment**

Many of our workplaces are directly affected by climate policies that have been or are being implemented currently. Workers and employers need to be aware of these policies, and understand the impact that these policies have on our work and our workplaces, so we can take proper steps to educate our members and perform the tasks we need to protect our jobs while keeping the environment safe for our communities. This panel discussion will feature experts with firsthand experience from the USW and our partner organizations who have addressed these issues across the United States. The discussion will focus on their experience as well as an opportunity for discussion with participants of experiences from your workplaces and communities. *Offered in Sessions E and F.*

### **USW's Stop the Killing Campaign**

Learn how USW activists are working to Stop the Killing and Enforce the Law. Learn about our successful campaign strategies, targets and goals. *Offered in Sessions C and D.*

### **We don't need more gimmicks, we need a system. – Can management system standards help?**

Some safety programs are gimmicks, a little more than a patchwork of disjointed activities cobbled together based on the program of the month or the latest management whim. Comprehensive management systems can be a powerful tool for OSH continual improvement based on planning,

establishing objectives and implementation plans, carefully monitoring progress, and making adjustments. On the other hand, management systems can be a wasteful bureaucratic paperwork exercise that demoralizes employees, creates conflict and produces little improvement. The United States ANSI standard Z10 and the new ISO 45001 standard establish occupational health and safety management system guidelines. This workshop will review the critical pitfalls and success factors to implementing an effective system. Learn about the role of leadership, union representatives and worker participation. *Offered in Sessions E and F.*

### **Wearable Robotic Devices**

U.S. Department of Energy (DOE), Office of Environmental Management (EM) has launched an initiative to utilize wearable robotic devices to enhance worker health and safety as well as improve worker performance and productivity. The vision is that a modernized workforce will be outfitted with exoskeletal, exomuscular, and other wearable robotic devices that serve as personal protective equipment (PPE) and performance augmentation and amplification devices (PAAD). These devices are different from traditional PPE; wearable robotic devices are designed to protect workers from anatomical injuries due to, for example, overexertion, bodily reaction, repetitive motion, hyperextensions, over-rotation, excessive and repetitive vibration, and even the latent effects of aging. Wearable robotic devices could also serve as PAADs designed to enable workers to perform tasks that are physically stressful or demanding, mentally taxing, ergonomically challenging, or even beyond human capability. By alleviating the physical and mental demands of certain tasks, workers will be able to work with much greater ease and efficiency as well as with improved safety and quality. The workshop will highlight key activities and initiatives that EM is undertaking in wearable robotic devices. *Offered in Session B.*

### **Why most workplace safety improvements fail: Skills necessary to improve the system**

Knowing what you want to accomplish and having goals in workplace safety isn't enough. Think of today's safety problems that we just can't seem to resolve. We launch one program after another. There must be something missing. Making improvements requires us to understand the system, the situation and circumstances under which work is performed. Understanding the way a system works enables us to identify the most effective approaches, to ensure we address underlying causes of trouble, not just symptoms. During this workshop you will learn about and practice using powerful tools to understand systems better. *Offered in Session A.*

### **Working in Extreme Temperatures**

Workplace heat stress kills more than 30 people a year, and threatens the health and lives of many, many more. This workshop will discuss how to protect people working in hot environments. Cold temperatures can also be harmful; the workshop will briefly review protection from cold as well. *Offered in Sessions A, B, E, F and H.*