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BLOCK 1 / Monday, May 7th 1:00 p.m.–2:30 p.m.

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BLOCK 2 / Monday, May 7th 3:00 p.m.—4:30 p.m.

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BLOCK 3 / Tuesday, May 8th 8:30 a.m.-10:00 a.m.

15

BLOCK 4 / Tuesday, May 8th 10:30 a.m.—12:00 p.m.

TRACK DESCRIPTIONS

ATT

Advanced Training Technologies (such as improving PowerPoint presentations)

ID

Instructor Development (such as the use of small group activities and the role of evaluation)

TC

Training Challenges (such as literacy; language barriers; and a younger workforce)

TU

Technical Updates (such as lockout/tagout or personal protective equipment)



AGENDA

May 7–8, 2012 | Knoxville, TN

May 7, 2012

8:00-9:00 a.m.	Registration and Breakfast	Lower Level, Salons A & B.
9:00–9:30 a.m.	Welcome Karen Boardman, Director, National Training Center, Office of Health, Safety and Security, Julie Johnston, Sr. Nuclear Safety Specialist, EnergySolutions Performance Strategies Joseph "Chip" Hughes, Director, NIEHS Worker Education and Training Program	
9:30–10:00 a.m.	Small Group Activity Ted Outwater, Public Health Educator, NIEHS Worker Education and Training Program	
10:00-11:30 a.m.	Plenary Session: Best Practices for Safety Training Collaboration	
	• Standards of Training Sharon D. Beard, Industrial Hygienist, NIEHS Worker Education and Training Program	
	 HAMMER Lessons Learned Patricia Aldridge, Manager, Conduct of Training, HAMMER/Mission Support Alliance Randy Coleman, HAMTC Liaison, Hanford Atomic Metal Trades Council Robert Legard, Training Director, Central Washington Building Trades Council 	
	 Summary of Safety Collaboration Meetings and the Safety Training Collaboration Proje Evan Dunne, Project Manager, National Training Center Peter Turcic, Advisor, Office of Safety Training Operations 	ct
	 Emergency Response Training and Integration with the DOE Sites Darryl Kerley, Chief, Oak Ridge Fire Department 	
11:30 a.m1:00 p.m.	Lunch	Salons A & B
1:00-2:30 p.m.	Workshop Block 1	
	Innovation in Training HAMMER/Mission Support Alliance	Meeting Room 6
	 Don't Blame the Workers, Fix the Hazards!: Problems with Behavior-Based Safety/ Blame-the-Worker Approaches to Health and Safety and Tools for Focusing on Finding and Fixing Hazards United Steelworkers-Tony Mazzocchi Center for Health, Safety and Environmental Education 	
	 Training Workers about DOE's 851 Rule: Understanding the Big Picture on Health and Safety Management The Lippy Group 	Meeting Room 1
	4. Death by PowerPoint or Not!	Meeting Room 2
	5. Systems of Safety: The BP Disaster	Meeting Room 4

AGENDA continued

2:30–3:00 p.m.	Break	
3:00-4:30 p.m.	Workshop Block 2	
	6. A Mobile Technology for Just-in-Time Training of First Responders	Meeting Room 1
	7. Making the Connection: Demonstrating the Value of Receiving Feedback from Trainees LIUNA Training and Education Fund	Meeting Room 2
	8. Developing New DOE Programs	Meeting Room 4
	9. Hanford Site Worker Eligibility Tool	Meeting Room 6
	10. OSHA 10-Hour Construction Update, Focus Four and Heat Stress	Meeting Room 3
6:00-8:00 p.m.	Dinner at Chesapeake's	500 Henley Street
May 8, 2012		
7:30–8:30 a.m.	BreakfastLo	wer Level, Salons A & B
8:30-10:00 a.m.	Workshop Block 3	
	11. Continuing Training for Radiological Control Technicians: A Hands-on Approach	Meeting Room 3
	12. Developing New DOE Worker-Trainers ICWUC Center for Worker Health and Safety Training	Meeting Room 1
	13. The Sense of Smell	Meeting Room 2
	14. Adapting Training to Your Target Audience	Meeting Room 4
	15. Overview of CPWR's New 4-Hour Hazard Communication Course	Meeting Room 6
10:00-10:30 a.m.	Break	
0:30 a.m.—12:00 p.m.	Workshop Block 4	
	16. AACM at Hanford, It's Impact on Workers and on Training	Meeting Room 1
	17. Putting Feet on Evaluation (and Following the Footprints)	Meeting Room 2
	18. HAMMER Heat Stress Training for Trainers	Meeting Room 4
	19. A Matter of Time to Save a Life	Meeting Room 6
12:00–1:30 p.m.	Lunch	Salons A & B
1:30–2:30 p.m.	Tools and Resources	Salons C & D
	Deborah McFalls, Group Manager, Oak Ridge Associated Universities, ORISE: HCTT Bruce Lippy, President, The Lippy Group Deborah Weinstock, Director, National Clearinghouse for Worker Safety and Health Training	
2:30–3:00 p.m.	Closing/Next Steps	

BLOCK 1

Monday, May 7th 1:00 p.m.—2:30 p.m.

ATT

1. Innovation in Training

At the Hanford Nuclear Reservation in Richland, Washington, an effort has been underway for two years to standardize safety across the Site. A strong Site-wide safety program is built on standardized practices and procedures used by all contractors. Training is a critical component to the success of safety standardization. Adults learn best by being actively engaged in their training. Taking students beyond standard classroom instruction can provide experiences and information that transfers back to real-world use in the workplace. Respiratory training at the Hanford Site is an excellent example of creative training solutions to provide engaging experiences and a bit of fun in the process. With the stress of workforce reductions and increased workloads, students need training that helps relieve tension as well as teaches skills. This year's respiratory training activities are specifically designed to reduce stress on instructors and students. New technologies are being implemented to teach old topics and concepts and involve students in their learning. Respiratory protection knowledge and skills are taught through student-centered hands-on activities such as Qwizdom®, three-hole miniature golf and X-Box game activities. These are fun activities that require students to apply valuable workplace skills such as communication or airline management. Even though it is fun learning, this is training and everything has a workrelated purpose.

LEAD PRESENTER:

Patricia Aldridge, HAMMER/ Mission Support Alliance

CO-PRESENTER:

Randy Coleman, HAMMER/ Mission Support Alliance

ID

2. Don't Blame the Workers, Fix the Hazards!: Problems with Behavior-Based Safety/Blame-the-Worker Approaches to Health and Safety, and Tools for Focusing on Finding and Fixing Hazards

This interactive skill-building workshop will explore problems with workplace programs that focus on worker behavior rather than hazardous conditions as the cause of workplace injury, illness and death. We will discuss various behavioral safety programs, policies and practices and delve into the impacts that these programs have, including impacts on discouraging workers from reporting job injuries and illnesses; and shifting attention away from identifying and addressing workplace hazards. This workshop will also include hands-on experience with a variety of tools that can redirect workplace health and safety focus onto identifying and addressing unsafe and unhealthy workplace conditions, tools that are examples of education for action.

LEAD PRESENTER:

John Scardella, United Steelworkers-Tony Mazzocchi Center for Health, Safety and Environmental Education

CO-PRESENTER:

Doug Stephens, United Steelworkers-Tony Mazzocchi Center for Health, Safety and Environmental Education

3. Training Workers about DOE's 851 Rule: Understanding the Big Picture on Health and Safety Management

DOE's 10 CFR 851 Rule is arguably the most important health and safety management requirement that DOE has put in place in years. The challenge for trainers, as always, is to make regulatory training interesting and effective. OBJECTIVE: This workshop will present an overview of a one-day course developed by The Lippy Group for The National Partnership for Environmental Technology Education (PETE) on the 851 Rule, and work with participants to identify additional opportunities for making the materials more accessible and interesting to workers. STRUCTURE: the curriculum and the proposed workshop are structured for group activities that include evaluating lessons learned case studies from DOE and performing hazard assessments beyond Job Hazard Analysis. The curriculum allows participants to see how the 851 Rule is very similar to other approaches like ISM, VPP and the ANSI Z10 standard. The materials include videotaped interviews with key figures like the head of the DOE 851 program to reinforce the issues raised in the course. An online version of the curriculum will be demonstrated with a group discussion afterwards about the appropriate uses of online and instructor-led training.

LEAD PRESENTER:

Bruce Lippy, The Lippy Group, LLC

CO-PRESENTER:

Margaret Mellecker,

Partnership for Environmental Technology Education (PETE)

ATT

4. Death by PowerPoint or Not!

We all have sat through power point presentations where the speaker read every word on every slide with nothing added, some of which had print so small even the first row couldn't read. Based on a survey of worker trainers from a number of the union grantees, a group of six NIEHS union grantees held a 4 day class that was aimed at better using Power Point to support worker centered values of union training efforts. The Learning Objectives included a review of a set of 2002 principles of participatory adult education (reviewed in another Trainers Exchange class), how to evaluate how electronic media can enhance the classroom experience, understanding the limits of electronic technology and keeping the focus of training on the participants, editing and designing Power Point presentations and exploring how other grantees are using electronic training technologies. The class included a mixture of basic educational goals of worker centered programs, a review of all the menu options of Power Point and 4 exercises where the trainers edit and develop Power Point presentations to center of participants' experiences and opinions. This class will review this project, divide into small groups to discuss the strengths and weaknesses of power point and discuss how best to use Power Point. This will be followed by a group discussion of each group's major views.

LEAD PRESENTER:

John Morawetz, *ICWUC* Center for Worker Health and Safety Education

5. Systems of Safety: The BP Disaster

The objective is to use a proactive systems safety approach rather than a reactive approach to accident prevention and hazard control or elimination. The class will use the Small Group Activity Method, where participants will work at their tables on the facts presented to them and through their experience and knowledge focus on what Systems of Safety (SOS), were, should have been, or were not in place that would have prevented the incident. The workshop will identify the flaws in the scenario presented and target the SOS that the flaw occurred in. The value of this workshop is that workers not only work collectively on the incident investigation, identifying the failed SOS through the flaws found, but offer solutions by using the SOS method to reduce or prevent not only the probability of an accident but also the severity of one. The interaction between the tables is a value of not only learning from others but sharing knowledge and experiences, as I believe the true subject matter experts are in the workshop at the tables not in front of the room. The activity allows time for the participants to share their impressions of the activity through an evaluation at the end of exercise.

LEAD PRESENTERS:

Sean Harte and Rocco Talarico, *Utility Workers of America*

ATT

6. A Mobile Technology for Just-In-Time Training of First Responders

Objective: To demonstrate a mobile training platform designed to facilitate the delivery of educational content in the classroom, operational, and just-in-time settings. The technology includes a smart checklist to provide real time decision support around objective based content or job action sheets. Technology revisions will incorporate real-time content management, the ability to add and modify content, monitor task progress, promote two-way information sharing such as text and video feeds, and utilize the capabilities of smart phones to provide location and health status of the user. Structure: This session is a technology demonstration and is open for audience feedback regarding features, capabilities, and implementation. A prototype has been developed using a Mobile Medical Unit Field Operations Guide for a set of checklistbased complex tasks. The technology is under development with a NIEHS SBIR Phase 1 grant. Discussion: In this session we will discuss the use of mobile technologies and devices as platforms for delivering educational content in multiple settings and integration of these technologies with existing training programs. The current features of the training technology include the ability to display built-in content on a projector for classroom based training, access objective based checklists and job action sheets, and monitor individual user progress. We have conducted two small focus groups to validate the functionality of the current version, and are seeking feedback and input for revisions to the technology from a larger pool of subject matter experts.

LEAD PRESENTER:

Roberto J. Nicolalde, Nicolalde R&D, LLC, and Dartmouth College

CO-PRESENTERS:

Michael Rea, Nicolalde R&D, LLC; Jeff Spielberg, Nicolalde R&D, LLC

ID

7. Making the Connection: Demonstrating the Value of Receiving Feedback from Trainees

The ability to elicit feedback from trainees is a powerful tool instructors need to ensure participants are learning in the class. Gathering trainee feedback is also helpful to capture evaluation and employment information required by NIEHS. During this presentation, LIUNA Training and Education Fund will demonstrate how Trainers can use this technique to do both. Utilizing a questionnaire incorporated into the 8-hour Hazardous Waste Refresher application, LIUNA Training instructors facilitate a think, pair and share activity where they gather participant feedback. The information collected is used to inform teaching and learning and to assist in preparing reports to NIEHS. Trainers attending this workshop will learn the value of eliciting feedback and leave with an example of an activity they can employ in their own refresher classes to enhance participation, gather feedback and capture vital grant reporting information.

LEAD PRESENTER:

George McCoy, LIUNA Training and Education Fund

CO-PRESENTER:

Gary F. Gustafson, LIUNA Training and Education Fund

8. Developing New DOE Programs

The aim of this exercise is for DOE trainers from different sites and different unions to have the opportunity to exchange and discuss how they develop new DOE curriculum. The facilitator should divide everyone up so each site and each union is divided up at all the tables as much as possible. You can also ask who has experience in developing curriculum and you make sure they are at every table. Each table then discusses these questions as a group.

- Have you developed new curriculum? If yes, for what program and describe the modules?
- 2. What were the major obstacles in writing this curriculum?
- 3. Did the curriculum get changed after you first presented it? How did it change?
- 4. How would you write new curriculum in the future?

The role of the facilitator is to facilitate a discussion on these questions and the discussion at each table. The major aim is for everyone to learn from each of the smaller group's responses. On a different flip chart, each question should be written at the top. The facilitator should write down one response per group. If other people want to add any comments to each response, discussion by the group as a whole should be encouraged. The facilitator should add their thoughts on each question at the end of the exercise after everyone has a chance to respond to all the responses. If there is additional time at the end of this session, the facilitator can ask the group, as a whole group exercise, to come up with the major ways that NIEHS grantees can develop new DOE curriculum.

LEAD PRESENTER:

Tom Frazee, ICWUC Center for Worker Health and Safety Education

CO-PRESENTER:

John Morawetz, ICWUC Center for Worker Health and Safety Education

9. Hanford Site Worker Eligibility Tool

Cleanup of the Hanford Site is performed by 4 prime contractors and several subcontractors working under the prime contractors. In many instances, workers from one of the prime contractors performs work for another prime contractor at their worksite. The Field Work Supervisor (FWS) responsible for the work must verify the training and qualification of all workers prior to starting work activities. This requires the FWS to know all applicable training is current as well as any medical clearances for the work are met. HAMMER/Hanford Training developed a software program, Hanford Site Worker Eligibility Tool (HSWET) which merges training and medical clearance data to provide the FWS with a single source for verifying worker training and qualification for work assignments. To implement HSWET, the Hanford Occupational Health Services provider created the electronic data base feed of medical clearance information for HSWET. The existing Training Management System provided the training input for HSWET. Using HSWET, the FWS can generate a report of qualified workers based on expected duration of work (start to finish date), training and medical clearance requirements resulting from work hazard analysis or any special qualifications for the work. The HSWET report provides a list of workers meeting the requirements for the work, as well as flagging any workers who have a work restriction. The work restriction flag allows the FWS to contact the worker's manager to determine if the restriction would preclude the worker from performing the assigned work safely.

LEAD PRESENTER:

Theodore Giltz, HAMMER/ Mission Support Alliance

ID

10. OSHA 10-Hour Construction Update, Focus Four and Heat Stress

This session will provide trainers with the most recent update on the OSHA 10 hour construction requirements; Focus Four activities: caught-in or caught-between, electrocution, falls, and struck-by; heat stress, and brownfield activities. Participants will be able to discuss the updates for OSHA 10 hour training requirements, identify hazards associated with Focus Four activities by utilizing actual photographs which the participants will assess and offer corrective actions. The presentation will also discuss how to perform a needs assessment of participants' KSAs and ways to incorporate this information into training delivery. Additionally, factors effecting heat stress, signs and symptoms of heat stress, and various brownfields activities will be discussed. Participants will engage in skills development and hazard recognition through the use of photographs and other handouts provided to assist in their own training delivery.

LEAD PRESENTER:

Ron Snyder, Partnership for Environmental Technology Education (PETE) **ATT**

11. Continuing Training for Radiological Control Technicians: A Hands-on Approach

Due to the breadth of areas supported by a Radiological Control Technician (RCT) their skills and proficiency in specific areas deteriorate over time. Fundamental knowledge erodes due to the availability of many functions being performed by tools available to the RCT. In addition the RCT is expected to be ready to support low probability seldom occurring events such as an injured person within a radiological area. As a part of performing a two regualification cycle of training HAMMER Radiation Safety Training has implemented a goal that at least 50% of their continuing training program consists of hands-on exercises and evaluated events. Training is performed using live agent radioactive materials and integrated with organizations that the RCT would infrequently support. For example, RCTs training was developed with support from the Hanford Fire Department on doffing bunker gear after a response within a contaminated area; RCTs completed a discussion of emergency response procedures and then exercised those skills by exiting an individual with EMT support to an ambulance for transport to a medical facility, and RCTs performed an evaluated practical where typical radiological surveys were performed and documented. Fundamental radiological knowledge is reinforced through practical training. New instrument technology was used as a part of a procedure review and verification course. Radiological data from damage to the Fukushima reactor complex caused by the recent earthquake and tsunami in Japan was developed into a Fukushima Daiichi Case Study that reviewed RCT fundamental requirements from four modules of the RCT qualification course materials. HAMMER Radiation Safety Training has moved radiological training beyond a lecture and read training event to providing training As-Real-As-It-Gets.

LEAD PRESENTER:

Brian Killand, HAMMER/ Mission Support Alliance ID

12. Developing New DOE Worker-Trainers

The aim of this exercise is for DOE trainers from different sites and different unions to have the opportunity to exchange and discuss how new DOE worker trainers are developed. The facilitator should divide everyone up so each site and each union is divided up at all the tables as much as possible. Each table will have 25 minutes to discuss the following questions followed by a group discussion.

- 1. How long have you trained at any DOE site?
- 2. Briefly describe a presentation or module where you were a participant that had a positive impact on you. Why was it positive?
- 3. What helped you the most in developing your training skills?
- 4. What was the major difficulty in developing your training skills?

The trainers at each table then discuss their answers. The role of the facilitator is to facilitate a discussion on these questions and the discussion at each table. The major aim is for everyone to learn from each of the smaller group's responses. On a different flip chart, each question should be written at the top. The facilitator should write down one response per group. If other people want to add any comments to each response, discussion by the group as a whole should be encouraged. The facilitator should add their thoughts on each question at the end of the exercise after everyone has a chance to respond to all the responses. If there is additional time at the end of this session, the facilitator can ask the group, as a whole group exercise, to come up with the major ways that NIEHS grantees can develop new DOE trainers.

LEAD PRESENTER:

Bill Hoobler, ICWUC Center for Worker Health and Safety Education

CO-PRESENTER:

John Morawetz, ICWUC Center for Worker Health and Safety Education

ID

13. The Sense of Smell

The Sense of Smell module is an hour to two-hour module created for HAZWOPER refreshers.

The module has been used at DOE facilities and IUOE local unions. The session presenter will deliver the presentation material and lead the participants through the sense of smell classroom exercises. The module focuses on exposures that can be detected with the sense of smell and while some are below a life-threatening threshold; others cannot be detected until a life-threatening threshold has been exceeded. Detecting chemicals with your sense of smell is the least desirable method of recognition and should be avoided, but it can also be the first warning that something is wrong. When participants have completed this module, they will be able to: Recognize the basic anatomy of the nose and how it works; Recognize the meaning of olfactory fatigue and its effect; Identify the concept of odor threshold and how it works; and, Recognize the difference between odor threshold and permissible exposure limit (PEL) and threshold limit value (TLV). Participants will receive digital copies of the presentation, exercises and media.

LEAD PRESENTER:

Robert Harrold, *IUOE National Training Fund*

ID

14. Adapting Training to Your Target Audience

One challenge presenters consistently face is how to focus on the needs of the students while still meeting the requirements of the presentation material. A generic one-size-fits-all program can be problematic with target audiences, time constraints and budget considerations. The DOE Modular Emergency Radiological Response Train the Trainer program presented just a problem for our group, the Railroad Workers Hazardous Materials Training Program. Our target audience is rail transportation workers and while they are often first responders at the awareness level they do not necessarily respond to medical, clean up or administrative duties. Our students needed the basics contained in the MERRTT program which required the development of a shorter, focused program. This module will address the process our group used to create the Rail MERRTT program and acquire the necessary approval to make our presentations. During the session we will discuss:

- · Determination of needs of your target audience through class feedback
- Evaluation of presentation material as it relates to the target audience
- Designing the presentation and its modifications using Instructional System Design
- · Problems and solutions associated with the creation of the presentation
- Review process for the new presentation

LEAD PRESENTER:

Kevin Smith, Rail Workers Hazardous Material Training Program

15. Overview of CPWR'S New 4-Hour Hazard Communication Course

Mizula, LLC produced a 4-hour course on Hazard Communication Training in accordance with 29 CFR1910.1200 for CPWR. Don Ellenberger will conduct a training with this material, developed using the Assertion Evidence structure, in which a sentence headline states the main assertion of the slide. That headline assertion is then supported not by the typical bullet list, but by visual evidence: photos, drawings, diagrams, graphs, etc. Assertion Evidence fosters a more interactive classroom environment over the use of standard PowerPoint format. Introductory research has shown students scored higher on tests when Assertion Evidence format was used compared to standard PowerPoint format. Along with the PowerPoint presentation, the course includes a participant manual and an instructor guide. Several interactive group activities are included, all contributing to the completion of the various course objectives. Elements of this training to be presented in the workshop include classroom and time management strategies, lecture, questioning and debriefing tactics, assessing successful completion of the learning objectives, and guiding the group activities. The legal aspects of Hazard Communication training will be explored, including employer obligations under this standard. Issues of Hazard Communication training for multi-employer sites and mobile work populations will be explored. Trainers attending this workshop will complete some portion of the course activities in small group format along with a short debrief. Course sections include an overview of the standard, training requirements, chemicals and toxicology, health effects, measurement, exposure limits, hazard communication methods, controls, spill response, and a brief section on the GHS and REACH.

LEAD PRESENTER:

Don Ellenberger, CPWR -The Center for Construction Research and Training TU

16. AACM at Hanford, Its Impact on Workers and on Training

Mr. Legard of the Building Trades and Mr. Moore, a worker instructor, will describe the recent implementation of Alternative Asbestos Control Methods (AACM) implemented by a prime Hanford contractor in the demolition of asbestos-contaminated buildings on site. EPA's role in initially agreeing to this practice and the subsequent involvement of DOE will be examined. Emphasis will be placed on how this issue was handled in class at Hanford, where workers expressed significant alarm about this practice, and the dilemma this posed to instructors. An update of the current status will be provided.

LEAD PRESENTER:

Robert Legard, Building and Construction Trades

CO-PRESENTER:

Mike Moore, CPWR - The Center for Construction Research and Training/ Insulators Local 120

ID

17. Putting Feet on Evaluation (and Following the Footprints)

Preventing injuries and illnesses in an industrial setting demands that companies provide a workplace that is free of recognized hazards. To get there we must train our workforce to identify hazards and near-misses, to understand how to report those hazards/ near misses, to resist the counter forces they might face, and finally, to keep track of how well the company does in eliminating those reported hazards/ near-misses. The USW TMC has launched a new initiative in its annual HAZWOPER refresher training that solicits trainees to join with their local leaders and co-workers in preventing injuries and exposures by increasing the reporting process.

LEAD PRESENTER:

Misty Jones, United Steelworkers

CO-PRESENTER:

Billy Edington, United Steelworkers- Tony Mazzocchi Center for Health, Safety and Environmental Education Ι'n

18. HAMMER Heat Stress Training for Trainers

Being too warm while working is not just uncomfortable, it is dangerous. Too much heat can cause serious health effects, and death. According to OSHA, every year, thousands of workers become sick from occupational heat exposure with some of those illnesses ending in fatalities. In many cases, heat related illness is not included in requisite injury recordkeeping for a variety of reasons. In addition, excessive heat makes workers less productive and more likely to make mistakes, including errors that can cause injuries and fatalities. For many DOE workers, the threat of heat stress is very real. Jobs may require outside work, work that is around hot work processes, highly physically demanding work and/or the use of full body PPE; these factors can greatly increase a workers susceptibility to heat stress. In 2011 the Volpentest HAMMER Training and Education Center worked with Mizula, LLC to create a 4-hour heat stress course geared toward DOE Worker Trainers and health and safety professionals so that they may be better equipped to empower workers with an understanding of heat stress and how to prevent it. Both HAMMER and the United Steelworkers understand the continued need for worker understanding of heat stress. These materials are available to DOE Worker Trainers through HAMMER. The workshop will focus on a review of the HAMMER 4 Hour Heat Stress Course including a presentation of heat stress related case studies, applicable standards, what heat strain and heat stress is, work environment evaluation and work environment controls. Trainers attending this workshop will leave with a refreshed understanding of the issues of heat stress, how to incorporate the HAMMER 4 Hour course into their training programs and how to use the materials effectively in their training.

LEAD PRESENTER:

Bernard Mizula, Mizula, LLC/United Steelworkers -Volpentest HAMMER Training and Education Center

19. A Matter of Time to Save a Life

This is an overview of a training plan from IAM/IBEW worker trainers at the HAMMER DOE facility on technology advancements and their usefulness in emergency response.

- Review the history of information resource delivery from hand written books, printing press, telegraph, telephone, television, computer, Internet to Instant Messaging. Demonstration of current Tablet and Smart phone applications and resources. Using tablet technology students will see available information resources and access techniques through instructor guided, hands on activity. The instructor will show some available websites for HAZWOPER information (OSHA, NIOSH, DOT, NFPA, Chemical Protective Clothing websites).
- 2. Scenario Tables will be given one of three work or emergency scenarios to research all with the same chemical of concern. Each table will be divided with 3 students researching from printed resources and 2 students will use the I-PAD tablet resource. Each table can see their Hammer scenario's video saved on I-PAD tablet (at HAMMER students use a prop to see their scenario's conditions and location). Students will be asked for PEL, TLV, IDLH, vapor pressure, vapor density, incompatibles, personal protective equipment needed and working plan. The instructor will show the full class each scenario one at a time and ask for information from students using printed resources and those using the I-pads. Discussion will include the importance of chemical information, product information from manufacturers on PPE and CPC and possible changes in chemical information from effectiveness of resources. Instructor will tie the importance of time and information when planning a job to keep workers safe and still getting work done effectively.

LEAD PRESENTER:

Pat Goble, IAM and ICWUC Center for Worker Health and Safety Education

CO-PRESENTER:

Bill Hoobler, ICWUC Center for Worker Health and Safety Education

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