

HAMMER Federal Training Center

HAMMER/NTC TRAINING EVENT

in conjunction with the NIEHS Worker Trainers' Exchange

MARCH 3-5, 2015

Volpentest HAMMER Federal Training Center

2890 Horn Rapids Road

Richland, Washington 99354

509-372-3143

HAMMER@rl.gov



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HAMMER/NTC TRAINING EVENT

in conjunction with the NIEHS Worker Trainers' Exchange

AGENDA

March 3–5, 2015 > Richland, Washington

Tuesday, March 3

7:00–8:00 a.m. **Registration** Room 31 (Command Center)

8:00–9:30 a.m. **Opening Session** Rooms 10/11/12

- **Safety Topic – “VPP, What it Means to You”**

Bob Legard, Training Director, Central Washington Building Trades Council, and Randy Coleman, Training Director, Hanford Atomic Metal Trades Council

- **HAMMER Partnerships and History**

Karen McGinnis, Director, HAMMER Federal Training Center

- **Keynote Speaker**

Glenn Podonsky, Director, DOE Office of Enterprise Assessments

- **Welcoming Remarks**

David Foster, Senior Advisor, DOE Office of the Secretary

Todd Lapointe, Director, EM-41, Safety Management for DOE-EM

Joseph “Chip” Hughes, Program Director, Worker Training Program, NIEHS

9:30–9:45 a.m. **Break**

9:45–10:30 a.m. **Workshop Block 1**

1. **Respiratory Training: The Essential People, Processes and Props**

HAMMER Hands-on Training Demo AAB 5&7 and Props

Dave Riddle

2. **Dynamic Learning Through the Use of Simulators**

HAMMER Hands-on Training Demo Con Ops AAB 34/High Bay

Stan Scott

3. **Lockout/Tagout: Innovative Technologies and Instructional Strategies to Enhance Training**

HAMMER Hands-on Training Demo Annex 1/Annex Bay

Jen Bilskis and Chris Holway

4. **When Good Equipment Goes Bad: Electrical Safety at Home and Work**

HAMMER Hands-on Training Demo AAB 6/Vehicle Bay

Jack Strait and Alan Aunspaugh

5. **Teaching Instructors How to Assess the Radiation Worker II Practical**

Factors/LIUNA Training‡ (90-minute session) Rad Bldg

‡This is a 90 minute session; plan to attend during workshop Blocks 1 and 2.

Cindy Herleikson, Richard Duncan, Randall Rickmon, and James Etherton

6. **Fall Protection: Personal Fall Arrest System (PFAS) Demonstration**

HAMMER/Hanford Hands-on Training Demo H&S Bldg Rm 40 and SCBA Bldg

Chris Lesperance

10:30–10:50 a.m. **Break**

10:50–11:35 a.m. **Workshop Block 2**

7. **Respiratory Training: The Essential People, Processes and Props**
HAMMER Hands-on Training Demo..... AAB 5&7 and Props
Dave Riddle
8. **Dynamic Learning Through the Use of Simulators**
HAMMER Hands-on Training Demo Con Ops..... AAB 34/High Bay
Stan Scott
9. **Lockout/Tagout: Innovative Technologies and Instructional Strategies to Enhance Training**
HAMMER Hands-on Training Demo..... Annex 1/Annex Bay
Jen Bilskis and Chris Holway
10. **When Good Equipment Goes Bad: Electrical Safety at Home and Work**
HAMMER Hands-on Training Demo..... AAB 6/Vehicle Bay
Jack Strait and Alan Aunspaugh
11. **Teaching Instructors How to Assess the Radiation Worker II Practical Factors/LIUNA Training‡ (continued)**..... Rad Bldg
‡ This is a 90 minute session; plan to attend during workshop Blocks 1 and 2.
Cindy Herleikson, Richard Duncan, Randall Rickmon, and James Etherton
12. **Fall Protection: Personal Fall Arrest System (PFAS) Demonstration**
HAMMER/Hanford Hands-on Training Demo..... H&S Bldg Rm 40 and SCBA Bldg
Chris Lesperance

11:35 a.m.–12:55 p.m. **Lunch**

12:55–2:25 p.m. **Workshop Block 3**

13. **10 CFR 851 Training for Construction Workers/CPWR**..... Room 10/11
George Newman and Kelly Dykes
14. **Making a Positive Difference in Construction Safety and Health by Improving Safety Culture, Safety Climate and Safety Leadership/CPWR**..... Room 12
Dr. Linda Goldenhar
15. **Strategies for Correcting Health and Safety Misinformation: A Case Study/University of Texas**..... Room 14
Dr. Robert Emery
16. **Generational Difference: Bridging the Communication Gap Between Generations/DSCEJ**..... Room 15
Darian Williams
17. **Keeping the Refresher Fun! How to Update a Refresher Course to Keep Workers Engaged in the Learning Process/IBT***..... Room 29
Ivan Howard, Carol Lorenzen, Earl Wilder, and Marvin Raymond
18. **Disaster Worker Resilience/National Clearinghouse**..... AAB Room 36
Jonathan Rosen
19. **New Electronics and Technologies in the Classroom/CPWR**..... H&S Bldg Rm 40
Dean Beaver

2:25–2:45 p.m. **Break**

2:45–4:15 p.m. **Workshop Block 4**

20. **Assertion Evidence Approach to Improving Safety Training/CPWR**..... Room 10/11
Dr. Bruce Lippy
21. **Ethical Decision-Making Tools for Enhancing Organizational Safety Culture/University of Texas**..... Room 12
Dr. Robert Emery and Dr. Janelle Rios
22. **Workplace Violence Awareness Briefing—Walk Through Directors Cut/ National Training Center/Chenega**..... Room 14
Rob Adelman
23. **Training Reciprocity: Understanding the Process/HAMMER**..... Room 15
Brian Killand, Bob Legard, Richard Smith, Pete Wells, and Ted Giltz

	24. Field Work Supervisor Program Improvements at Mission Support Alliance/HAMMER	Room 29
	<i>Gerald Eaton</i>	
	25. Heat Stress Training for Trainers/USW	AAB Room 36
	<i>Bernie Mizula</i>	
	26. Burn Prop Photo Op	Burn Prop
5:30 p.m.	No-host Dinner**	Bookwalter Winery, 894 Tulip Lane, Richland, Washington

AAB = Al Alm Building

Room number with nothing preceding it is in the Admin Bldg.

* The following PPE is required: A coat and substantial footwear

**A No-host dinner means each individual pays for their own dinner.

Wednesday, March 4

7:00–8:00 a.m.	Registration	Room 31 (Command Center)
8:00–9:30 a.m.	Workshop Block 5	
	27. Assertion Evidence Approach to Improving Safety Training/CPWR	Room 10/11
	<i>Dr. Bruce Lippy</i>	
	28. Tools to Simplify the Complex Administration of DOE Training/HAMMER	Room 12
	<i>Just Joplin and Gerald Eaton</i>	
	29. New Refresher Curriculum Development/ICWUC	Room 14
	<i>John Morawetz and Thomas Duncan</i>	
	30. Growing Training Collaboration Across DOE/NTC	Room 29
	<i>Willie Edwards and Rob Adelman</i>	
	SharePoint in a Learning Environment/NTC	
	<i>Boyd Near and Willie Edwards</i>	
	31. Radiological/Nuclear Terrorism: Teaching Instructors Early Phase Protective Action Guidance/IAFF and HAMMER	H&S Bldg Room 40/Vehicle Bay
	<i>Richard Schlueck and Thom Hogg</i>	
	32. Kagan Professional Development: The Dynamic Trainer/Kagan Professional Development†	AAB Room 36
	<i>†This is an 8-hour workshop and is intended for continuous participation. Please plan to attend all sessions.</i>	
	<i>Christie Kagan</i>	
9:30–9:50 a.m.	Break	
9:50–11:15 a.m.	Workshop Block 6	
	33. Workplace Violence Awareness Briefing—Walk Through Directors Cut/ National Training Center/Chenega	Room 10/11
	<i>Rob Adelman</i>	
	34. Burn Prop Photo Op	Burn Prop
	35. Making a Positive Difference in Construction Safety and Health by Improving Safety Culture, Safety Climate and Safety Leadership/CPWR	Room 14
	<i>Dr. Linda Goldenhar</i>	
	36. Addressing Cultural Differences: Communications with Special Populations/DSCEJ	Room 29
	<i>Bruce McClue and Kim Chapital</i>	
	37. Radiological/Nuclear Terrorism: Teaching Instructors Early Phase Protective Action Guidance/IAFF and HAMMER	H&S Bldg Room 40/Vehicle Bay
	<i>Richard Schlueck and Thom Hogg</i>	
	38. Commanding the Classroom, Essential Tips to be an Effective Instructor /IAFF	Room 15
	<i>C. J. Haberkorn</i>	
	39. Kagan Workshop† (continued)	AAB Room 36
	<i>†This is an 8-hour course. Plan to attend during workshop blocks 5, 6, 7 and 8.</i>	
	<i>Christie Kagan</i>	

11:15 a.m.–12:25 p.m.

Lunch

12:25–1:55 p.m.

Workshop Block 7

- 40. **Disaster Worker Resilience/National Clearinghouse**..... Room 10/11
Johnathan Rosen
- 41. **Globally Harmonized Hazard Communication (HAZCOM) for the Advanced Users/MSA and HAMMER**..... Room 12
Raja Atallah and Pete Wells
- 42. **Basic Teaching Techniques: Not Just for Beginners/IUOE NTF**..... Room 15
Barb McCabe
- 43. **Using Technology in Your Training/ICWUC**..... Room 29
Pat Goble and Scott Downing
- 44. **Supplementing Classroom Training Through Virtual Environments/Vivid Learning Systems**..... Room 14
Jana Humphreys, Mike Case, and Lance Amato
- 45. **Training Reciprocity: Understanding the Process/HAMMER**..... H&S Bldg Room 40
Brian Killand, Bob Legard, Richard Smith, Pete Wells, and Ted Giltz
- 46. **Kagan Workshop† (continued)**..... AAB Room 36
†This is an 8-hour course. Plan to attend during workshop blocks 5, 6, 7 and 8.
Christie Kagan

1:55–2:15 p.m.

Break

2:15–4:15 p.m.

Workshop Block 8

- 47. **Risk Communciations**..... Room 10/11
Regina Lundgren
- 48. **Toxicology Review/USW**..... Room 12
Bernie Mizula
- 49. **Development of New Trainers/ICWUC**..... Room 14
Bill Hoobler and Carol Ellis
- 50. **Incident Investigation: Determining Root Causes, System Failures and Recommendations for Safer Processes and Workplaces/United Steelworkers**..... Room 29
Wes Moore and David Cassady
- 51. **New Electronics and Technologies in the Classroom/CPWR**..... H&S Bldg Room 40
Dean Beaver
- 52. **Cranes and Rigging Hands on Training Techniques/UAW**..... High Bay 2
Carl Little
- 53. **Kagan Workshop† (continued)**..... AAB Room 36
†This is an 8-hour course. Plan to attend during workshop blocks 5, 6, 7 and 8.
Christie Kagan

Thursday, March 5

8:00–9:30 a.m.

Labor Training Working Group Meeting..... Room 28

9:30–9:45 a.m.

Break

9:45–11:30 a.m.

Labor Training Working Group Meeting..... Room 28

11:30 a.m.–1:00 p.m.

Lunch

1:00–2:30 p.m.

Contractor Training Director/Manager Meeting..... Room 28

Ted Giltz

2:30-2:45

Break

2:45-4:15

Contractor Training Director/Manager Meeting..... Room 28

Ted Giltz

HAMMER/NTC TRAINING EVENT

in conjunction with the NIEHS Worker Trainers' Exchange

Worker Training Program
2015 DOE Trainers Exchange

Session Descriptions

BLOCK 1

Tuesday, March 3 > 9:45 a.m.–10:30 a.m.

1. Respiratory Training: The Essential People, Processes and Props

Respiratory equipment is a critical piece of personal protective equipment that's used to ensure the safety of workers who enter environments containing nuclear, chemical or other hazardous materials. Hands-on respiratory equipment training provided by worker-trainers gives respiratory users the confidence to enter dangerous environments safely. This interactive session will focus on the people, process, equipment, and props necessary to implementing a successful respiratory training program.

PRESENTER:
HAMMER, Dave Riddle

2. Dynamic Learning Through the Use of Simulators

On-the-job manipulations of systems and equipment often cannot accommodate student learning needs. In these situations, simulators can go beyond normal system manipulations to cover off-normal, emergency, and hypothetical situations. Stan Scott has been involved in high hazard operations, training, and safety for over 35 years and will discuss the use of simulators as a tool for dynamic learning, which is achieved through engaged, thoughtful participation that builds new knowledge and enhances skills.

PRESENTER:
HAMMER, Stan Scott

3. Lockout/Tagout: Innovative Technologies and Instructional Strategies to Enhance Training

It's a challenge to keep refresher training interesting, engaging and relevant. Students retain and synthesize material best when they are actively engaged. This presentation will discuss innovative ways to review material and check for understanding while maintaining an engaging atmosphere. HAMMER's Lockout/Tagout Training relies heavily on hands-on activities and personalized attention from the instructor. In this session participants will receive an introduction to the technical devices and teaching methodologies HAMMER uses in Lockout/Tagout Training.

PRESENTER:
HAMMER, Jen Bilskis and
Chris Holway

4. When Good Equipment Goes Bad: Electrical Safety at Home and Work

Most wall-mounted receptacles and extension cords are used far beyond their lifespan. This session will identify what equipment should be used and what should not. When replacing electrical equipment, attendees will learn the difference between quality equipment and junk grade as well as the cost associated with these products. No matter their work scope, this session will provide attendees with practical knowledge for use at home and in the workplace.

PRESENTER:
HAMMER, Jack Strait and Alan Aunspaugh

5. Teaching Instructors How to Assess the Radiation Worker II Practical Factors

(90-minute session. Plan to attend during workshop Blocks 1 and 2)

As part of LIUNA Training's reciprocity evaluation, a question was raised regarding an important component of the Radiation Worker II examination, how to assure a consistency in the scoring of the practical factors exam.

LIUNA Training teaches this important skill during the Radiation Worker train-the-trainer. Our staff reviews the importance of grading the assessment consistently not only with each participant in the class but also across participants from previous courses. Having a checklist that identifies what to look for is one critical component to ensure consistency in scoring, but making instructors aware of their biases in scoring and how to overcome them is another essential component of training.

During this session, LIUNA Training will discuss our experience obtaining DOE's reciprocity for our Radiation Worker training, the challenges of grading a subjective assessment and the solution we have undertaken to ensure our instructors conduct a fair and consistent practical factors exam.

This session will include a participatory event where each participant will have an opportunity to use LIUNA Training's practical factors scoring checklist during a mock dress up to better understand the challenges of observing and consistently scoring a radiation worker practical factors.

PRESENTER:
LIUNA Training, Cindy Herleikson, Richard Duncan, Randall Rickmon, and James Etherton

6. Fall Protection: Personal Fall Arrest System (PFAS) Demonstration

Slips, trips and falls continue to be the third leading cause of occupational fatalities in the United States. HAMMER/Hanford Training's Fall Protection Training focuses on 100 percent protection against falls. This session will present a portion of the Fall Protection Personal Fall Arrest System (PFAS) User training course, including components of a PFAS and proper inspection to ensure safe use. Attendees will have the opportunity to inspect PFAS components and observe a demonstration of the fall protection practical exercise that authorized users of a PFAS on the Hanford Site must complete.

PRESENTER:
HAMMER/Hanford Training, Chris Lesperance

BLOCK 2

Tuesday, March 3 > 10:50 a.m.–11:35 a.m.

7. Respiratory Training: The Essential People, Processes and Props

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PRESENTER:
HAMMER/Hanford Training, Chris Lesperance

13. 10 CFR 851 Training for Construction Workers

Instructors will share with workshop participants CPWR's new 851 training materials for construction workers. The 3-hour curriculum for workers, and 4-hour curriculum for business agents and job stewards was developed based on the assertion evidence model as presented by Dr. Lippy in another CPWR workshop. The course, titled "Working Construction on DOE Sites: Rights and Responsibilities" includes a case study from the Stanford Linear Accelerator involving a construction sub-contractor and a general contractor. The course is intended for all construction workers but especially those new to DOE.

PRESENTER:
CPWR-The Center for
Construction Research and
Training, George Newman
and Kelly Dykes

14. Making a Positive Difference in Construction Safety and Health by Improving Safety Culture, Safety Climate, and Safety Leadership

Over the past 20 years, there has been a proliferation of scholarly and other types of articles written on safety culture and safety climate, primarily in high risk industries such as Nuclear, Oil and Gas, Airline, and most recently Healthcare. While construction has received less focus, the fatality data indicate that it too is high-risk with the potential for catastrophic events. Researchers and practitioners agree that the construction industry remains overly dependent on lagging indicators such as injury and illness rates to help target areas for safety and health improvements. However, lagging indicators do not help companies learn how to prevent injuries and illnesses before they occur. A leading indicator is a measure that can be used to drive activities that, when properly implemented, prevent and control injuries and illnesses and foster a strong positive jobsite safety climate. Eight leading indicators of safety climate were identified during a 1½ day workshop attended by 72 construction stakeholders from business, labor, and academia. In this presentation we will present the findings and various outputs resulting from the workshop and focus in on one of identified leading safety climate indicators – supervisory safety leadership. Workshop participants will work in groups to create scenarios describing realistic situations to illustrate construction leaders effectively, and ineffectively, demonstrating the following skills: Leading by example, Teaching effectively (watch-train- feedback loop), Empowering team members to speak-up when they identify hazards and also to come up with solutions to address hazards, Practicing two-way, respectful communication (including active listening) and Giving and receiving feedback, including giving positive recognition.

PRESENTER:
CPWR-The Center for
Construction Research and
Training, Dr. Linda Goldenhar

15. Strategies for Correcting Health and Safety Misinformation: A Case Study

It is not uncommon for workers or the public to experience apprehensions about possible exposures to various substances in the workplace or the environment. These apprehensions can be exacerbated by previously held beliefs, intensive media coverage, and uncontrolled internet postings. In the absence of counterbalancing factual information presented in ways individuals can readily comprehend, poor decision making and the wasting of precious public health resources can ensue. So what should the safety professions be doing to address situations where incorrect or misinformation abounds? This presentation will discuss the current evidence-based information on risk communications and the techniques that can be employed to address situations involving misinformation.

PRESENTER:
University of Texas,
Dr. Robert Emery

16. Generational Difference: Bridging the Communication Gap Between Generations

Every generation is influenced by their respective eras; economic, political, and social events. Each imagines itself more intelligent than the ones before it. Communication is one of the major disconnects in the progression of building trust. This program will help the audience gain a better perspective as to the differences of interpretation and will hopefully allow each participant to accept the differences as an opportunity rather than a conflict.

PRESENTER:
Deep South Center for
Environmental Justice
(DSCEJ), Darian Williams

17. Keeping the Refresher Fun! How to Update a Refresher Course to Keep Workers Engaged in the Learning Process

With DOE site workers required to take a HAZWOPER refresher every year, it can often be difficult to keep students excited about the same subject material. To keep the Refresher new and interesting, the IBT Worker Training Program redesigns its refresher course every year- so that DOE workers never take the same course twice. In updating the refresher, the IBT Worker Training Program uses new case studies, new classroom activities, and emphasizes any regulatory changes to keep the course curriculum fun and engaging.

PRESENTER:
International Brotherhood
of Teamsters (IBT), Ivan
Howard, Carol Lorenzen, Earl
Wilder, and Marvin Raymond

18. Disaster Worker Resilience

As in prior major disasters, data collected after the Deep Water Horizon (DWH) oil spill indicate a significant mental health component to the health consequences of the event. To better assess the best practices and solutions to mental health concerns for workers during response to disasters, NIEHS Worker Training Program (WTP), in partnership with the Substance Abuse and Mental Health Services Administration (SAMHSA), developed training interventions for disaster workers. The Worker Resilience training program uses activities and interaction to engage participants in open discussion and begin building long term capacity for mental health and resilience. This unique pre-disaster training is intended to build coping skills, knowledge of mental health symptoms, and resources available in communities. It emphasizes the importance of developing organizational capacity to address the impact of stress and trauma on organizational members.

PRESENTER:
National Clearinghouse,
Jonathan Rosen

19. New Electronics and Technologies in the Classroom

Dean Beaver has been the lead instructor for CPWR at HAMMER for over 10 years, and will discuss what all hazardous waste refresher instructors know only too well, the challenges of making the refresher training new and relevant, interesting and engaging. His presentation will include explanations and demonstrations of new electronics and technologies in the classroom for CPWR worker training courses (including Hazwoper, Respiratory Protection, LOTO, Beryllium) at the HAMMER Federal Training Center. Participants should gain a working knowledge of how to use these electronic devices for students to retrieve practical information in real time and solve problems in the classroom.

PRESENTER:
CPWR-The Center for
Construction Research and
Training, Dean Beaver

20. Assertion Evidence Approach to Improving Safety Training

Bruce Lippy has been training workers about safety and health since 1978 and will provide recommendations and facilitate discussions on improving safety presentations. He will review basic techniques to turn PowerPoint presentations from primarily teleprompters for speakers into meaningful educational tools for learners. He will again discuss avoiding the inherent pitfalls of PowerPoint by applying basic principles of art composition. He will discuss applying research findings of an approach called Assertion-Evidence to improve learning. The session will include tips from successful TED Talks and resources from the web that can be used to improve your safety week presentation. He will also discuss using humor in safety presentations and has structured his talk to generate a mild to moderate chortle in at least 10 percent of attendees.

PRESENTER:
CPWR-The Center for
Construction Research and
Training, Dr. Bruce Lippy

21. Ethical Decision-Making Tools for Enhancing Organizational Safety Culture

Recent investigations of several tragic events have repeatedly identified the absence of a culture of safety as a common contributing factor. An organization's safety culture is a collective reflection of individual decisions made by its workforce, each carrying with them ethical implications. Safety culture, good or bad, is the sum product of many individual ethical decisions, yet the notion of ethical safety decision-making is not often discussed. This interactive presentation will describe ethical dilemmas safety professionals can encounter, and how the decisions that are made can impact an organization's overall safety culture. A set of ethical decision-making tools will be presented, along with a suggested path forward for actually improving safety culture within an organization.

PRESENTER:
University of Texas,
Dr. Robery Emery and
Dr. Janelle Rios

22. Workplace Violence Awareness Briefing—Walk Through Directors Cut

Learn how to recognize and respond to warning signs and how to respond to workplace violence incidents.

PRESENTER:
National Training Center
(NTC)/Chenega, Rob
Adelman

23. Training Reciprocity: Understanding the Process

Since 2012, the NTC and HAMMER have been working to develop and implement a training reciprocity program in an effort to reduce redundant training complex-wide. This panel will discuss the DOE policy on reciprocity, the process being used to certify courses and the tools and assistance available. Additional information to be covered includes sharing quality training curriculum through the NTC SharePoint system and equivalencies established between HAMMER/Hanford courses and the Building Trades Apprenticeship Training. This panel will include HAMMER staff and representatives from the NIEHS who have successfully followed the process and established training reciprocity.

PRESENTER:
HAMMER, Brian Killand,
Bob Legard, Richard Smith,
Pete Wells, and Ted Giltz

24. Field Work Supervisor Program Improvements at Mission Support Alliance

After a stop work revealed weaknesses in the existing Mission Support Alliance (MSA) Field Work Supervisor (FWS) program, a systematic approach to training (SAT) was applied to review and upgrade the program. This session will highlight the stop work event that revealed the weaknesses, the approach to identifying areas of weakness and strength in the program, information gathering techniques used to identify improvements, and what program improvements are now being applied.

PRESENTER:
HAMMER, Gerald Eaton

25. Heat Stress Training for Trainers

The workshop will focus on a review of heat stress including a presentation of heat stress related case studies (including current events from 2014), applicable standards and guidance, 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 topic in a worker-oriented way into their training programs and how to use heat stress training materials effectively in their training. There will be a short small group activity with this session.

PRESENTER:
United Steelworkers (USW),
Bernie Mizula

26. Burn Prop Photo Op

Open time for individuals and groups who want to have their pictures taken at the Burn Prop.

PRESENTER:
N/A

BLOCK 5

Wednesday, March 4 > 8:00 a.m.–9:30 a.m.

27. Assertion Evidence Approach to Improving Safety Training

Bruce Lippy has been training workers about safety and health since 1978 and will provide recommendations and facilitate discussions on improving safety presentations. He will review basic techniques to turn PowerPoint presentations from primarily teleprompters for speakers into meaningful educational tools for learners. He will again discuss avoiding the inherent pitfalls of PowerPoint by applying basic principles of art composition. He will discuss applying research findings of an approach called Assertion-Evidence to improve learning. The session will include tips from successful TED Talks and resources from the web that can be used to improve your safety week presentation. He will also discuss using humor in safety presentations and has structured his talk to generate a mild to moderate chortle in at least 10 percent of attendees.

PRESENTER:
CPWR - The Center for
Construction Research and
Training, Dr. Bruce Lippy

28. Tools to Simplify the Complex Administration of DOE Training

DOE contractors are required to have systems in place to manage such things as ensuring training requirements are assigned to the workers, maintaining class schedules, recording course completions, ensuring medical clearances, and easy access to training information. Additionally, there is little to no collaboration between the DOE contractors. This results in difficult training management and increased training costs.

Improving the electronic systems can simplify the training administrative processes. This session will provide real world case studies and a vision of a future where the training systems integrate together, automate processes, and ease administration.

PRESENTER:
HAMMER, Just Joplin and
Gerald Eaton

29. New Refresher Curriculum Development

The aim of this exercise is for trainers from different sites and different unions to have the opportunity to exchange and discuss how they develop new DOE curriculum, primarily refresher programs.

PRESENTER:
International Chemical
Workers Union Council
(ICWUC), John Morawetz
and Thomas Duncan

30. Growing Training Collaboration Across DOE

This session will provide information on how your organization can reduce redundant training and improve the consistency of course safety training content.

SharePoint in a Learning Environment

This session will cover innovative ways to use technology in and outside of the classroom.

PRESENTER:
NTC, Willie Edwards and
Rob Adelman

NTC, Boyd Near and Willie
Edwards

31. Radiological/Nuclear Terrorism: Teaching Instructors Early Phase Protective Action Guidance

Radiological/Nuclear terrorism will not bring the end to the world nor will it stop Emergency Response personnel from responding and performing lifesaving operations. However, when civilians and professionals do not know the proper protective actions for an IND/RDD incident, the operations of Emergency Response Personnel are unnecessarily more challenging. The purpose of this presentation is to assist civilian and professionals in protecting their own health and safety during an IND/RDD incident by reviewing the basics of radiation and its hazards; describing the aspects of these incidents; outlining the basic response and operations of Emergency Response Personnel during these incidents; and highlighting the critical Early Phase protective actions for these incidents based on guidance from Federal agencies and professional organizations dedicated to radiation protection.

PRESENTER:
International Association
of Fire Fighters (IAFF) and
**HAMMER, Richard Schluack
and Thom Hogg**

32. Kagan Professional Development: The Dynamic Trainer

The Dynamic Trainer presentation transforms courses given by aspiring trainers as well as seasoned professionals. By restructuring the social interactions in any training course, the Dynamic Trainer creates an unprecedented level of engagement. In addition to easy-to-implement step-by-step training strategies, the course and associated book examine every aspect of training with the goal of increasing participant engagement, retention of learning, and learning process enjoyment among participants as well as trainers. **NOTE: This is an 8-hour workshop and is intended for continuous participation. Please plan to attend all sessions.**

PRESENTER:
Kagan Professional
Development, **Christie Kagan**

BLOCK 6

Wednesday, March 4 > 9:50 a.m.–11:15 a.m.

33. Workplace Violence Awareness Briefing—Walk Through Directors Cut

Learn how to recognize and respond to warning signs and how to respond to workplace violence incidents.

PRESENTER:
National Training Center
(NTC)/Chenega, Rob
Adelman

34. Burn Prop Photo Op

Open time for individuals and groups who want to have their pictures taken at the Burn Prop.

PRESENTER:
N/A

35. Making a Positive Difference in Construction Safety and Health by Improving Safety Culture, Safety Climate, and Safety Leadership

Over the past 20 years, there has been a proliferation of scholarly and other types of articles written on safety culture and safety climate, primarily in high risk industries such as Nuclear, Oil and Gas, Airline, and most recently Healthcare. While construction has received less focus, the fatality data indicate that it too is high-risk with the potential for catastrophic events. Researchers and practitioners agree that the construction industry remains overly dependent on lagging indicators such as injury and illness rates to help target areas for safety and health improvements. However, lagging indicators do not help companies learn how to prevent injuries and illnesses before they occur. A leading indicator is a measure that can be used to drive activities that, when properly implemented, prevent and control injuries and illnesses and foster a strong positive jobsite safety climate. Eight leading indicators of safety climate were identified during a 1½ day workshop attended by 72 construction stakeholders from business, labor, and academia. In this presentation we will present the findings and various outputs resulting from the workshop and focus in on one of identified leading safety climate indicators – supervisory safety leadership. Workshop participants will work in groups to create scenarios describing realistic situations to illustrate construction leaders effectively, and ineffectively, demonstrating the following skills: Leading by example, Teaching effectively (watch-train- feedback loop), Empowering team members to speak-up when they identify hazards and also to come up with solutions to address hazards, Practicing two -way, respectful communication (including active listening) and Giving and receiving feedback, including giving positive recognition.

PRESENTER:
CPWR - The Center for
Construction Research and
Training, Dr. Linda Goldenhar

36. Addressing Cultural Differences: Communications with Special Populations

We all have to communicate health and safety information to different cultures; it can sometimes be a complex task. At some point we need to understand that it is not the information but the delivery of the information. While it's important to tell the truth: It's more important to have credibility when instructing special populations. Credibility is something that is earned thru tactfully communicating the information. Simply knowing and not exhibiting passion for the subject matter will lead to disinterested trainees. Tact allows us to be honest, while respecting a person's feelings. When we communicate tactfully, we can preserve relationships, build credibility, and demonstrate thoughtfulness. Our goal is not merely to communicate the regulatory statutes but to confidently inspire responses to safety.

PRESENTER:
Deep South Center for
Environmental Justice
(DSCEJ), Bruce McClue and
Kim Chapital

37. Radiological/Nuclear Terrorism: Teaching Instructors Early Phase Protective Action Guidance

Radiological/Nuclear terrorism will not bring the end to the world nor will it stop Emergency Response personnel from responding and performing lifesaving operations. However, when civilians and professionals do not know the proper protective actions for an IND/RDD incident, the operations of Emergency Response Personnel are unnecessarily more challenging. The purpose of this presentation is to assist civilian and professionals in protecting their own health and safety during an IND/RDD incident by reviewing the basics of radiation and its hazards; describing the aspects of these incidents; outlining the basic response and operations of Emergency Response Personnel during these incidents; and highlighting the critical Early Phase protective actions for these incidents based on guidance from Federal agencies and professional organizations dedicated to radiation protection.

PRESENTER:
International Association
of Fire Fighters (IAFF) and
HAMMER, Richard Schluack
and Thom Hogg

38. Commanding the Classroom, Essential Tips to be an Effective Instructor

In this 90-minute session, attendees will get an overview of the characteristics required to be an effective instructor. Attendees will be shown the relevance of being a professional and a practitioner in their area of expertise and how that can positively influence their delivery style. Obligations, preparation, and knowledge based curriculum will be discussed. The session will end with time to discuss challenges incurred in the classroom and courses of action to take when such adversity occurs.

PRESENTER:
International Association
of Fire Fighters (IAFF), C.J.
Haberkorn

39. Kagan Professional Development: The Dynamic Trainer *(continued)*

The Dynamic Trainer presentation transforms courses given by aspiring trainers as well as seasoned professionals. By restructuring the social interactions in any training course, the Dynamic Trainer creates an unprecedented level of engagement. In addition to easy-to-implement step-by-step training strategies, the course and associated book examine every aspect of training with the goal of increasing participant engagement, retention of learning, and learning process enjoyment among participants as well as trainers. **NOTE: This is an 8-hour workshop and is intended for continuous participation. Please plan to attend all sessions.**

PRESENTER:
Kagan Professional
Development, Christie Kagan

BLOCK 7

Wednesday, March 4 > 12:25 p.m.–1:55 p.m.

40. Disaster Worker Resilience

As in prior major disasters, data collected after the Deep Water Horizon (DWH) oil spill indicate a significant mental health component to the health consequences of the event. To better assess the best practices and solutions to mental health concerns for workers during response to disasters, NIEHS Worker Training Program (WTP), in partnership with the Substance Abuse and Mental Health Services Administration (SAMHSA), developed training interventions for disaster workers. The Worker Resilience training program uses activities and interaction to engage participants in open discussion and begin building long term capacity for mental health and resilience. This unique pre-disaster training is intended to build coping skills, knowledge of mental health symptoms, and resources available in communities. It emphasizes the importance of developing organizational capacity to address the impact of stress and trauma on organizational members.

PRESENTER:
National Clearinghouse,
Jonathan Rosen

41. Globally Harmonized Hazard Communication (HAZCOM) for the Advanced Users

Professional Health and Safety personnel supporting DOE missions that deal with hazardous chemicals need more than just rudimentary recognition training on the new Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The MSA/HAMMER Advanced HAZCOM course provides these users—predominately Industrial Hygienists and Chemical Management personnel—with an in-depth look into the classification and categorization of chemical products. This course will provide the student with increased knowledge of how chemical products are classified and labeled under the new GHS system. This discussion will be excerpts from the HAMMER class. The MSA prepared (EFCOG best practice) method of labeling secondary containers will also be discussed.

PRESENTER:
Mission Support Alliance
(MSA)/HAMMER, Raja
Atallah and Pete Wells

42. Basic Teaching Techniques: Not Just for Beginners

A panel of seasoned union grantee instructors will share the basic teaching techniques they find most useful when teaching their peers. For example; “What should always be done following the showing of a video clip?” You will be asked to share your most useful techniques and be given an opportunity to try some out.

PRESENTER:
IUOE NTF - National
HAZMAT Program, Barb
McCabe

43. Using Technology in Your Training

This session will focus on the iPad and Elmo projection system being used along with NOISH Pocket Guides, SDS's, and New Jersey fact sheets, etc. as a using and comparing recourses module to aid trainers in the classroom. The iPad is used by trainers and students for assignment research and comparison of information. The Elmo projection system can function as a projector linked to the computer or as an HD projector for the iPad, books or even show and tell items laid on it to project to the screen for entire class viewing.

PRESENTER:
International Chemical
Workers Union Council
(ICWUC), Pat Goble and
Scott Downing

44. Supplementing Classroom Training through Virtual Environments

Technology can be a powerful tool to supplement and enhance classroom training. When the real situation or operating environment cannot be replicated in the classroom, a virtual environment can help! In this session we will share examples of how we've used virtual environments as a training tool as well as some candidates for future use. Participants will get an opportunity to experience these environments for themselves.

PRESENTER:
Vivid Learning Systems,
Jana Humphreys, Mike Case,
and Lance Amato

45. Training Reciprocity: Understanding the Process

Since 2012, the NTC and HAMMER have been working to develop and implement a training reciprocity program in an effort to reduce redundant training complex-wide. This panel will discuss the DOE policy on reciprocity, the process being used to certify courses and the tools and assistance available. Additional information to be covered includes sharing quality training curriculum through the NTC SharePoint system and equivalencies established between HAMMER/Hanford courses and the Building Trades Apprenticeship Training. This panel will include HAMMER staff and representatives from the NIEHS who have successfully followed the process and established training reciprocity.

PRESENTER:
HAMMER, Brian Killand,
Bob Legard, Richard Smith,
Pete Wells, and Ted Giltz

46. Kagan Professional Development: The Dynamic Trainer *(continued)*

The Dynamic Trainer presentation transforms courses given by aspiring trainers as well as seasoned professionals. By restructuring the social interactions in any training course, the Dynamic Trainer creates an unprecedented level of engagement. In addition to easy-to-implement step-by-step training strategies, the course and associated book examine every aspect of training with the goal of increasing participant engagement, retention of learning, and learning process enjoyment among participants as well as trainers. **NOTE: This is an 8-hour workshop and is intended for continuous participation. Please plan to attend all sessions.**

PRESENTER:
Kagan Professional
Development, Christie Kagan

BLOCK 8

Wednesday, March 4 > 2:15 p.m.–4:15 p.m.

47. Risk Communications

Regina Lundgren, a nationally-recognized expert, will deliver an interactive workshop on Risk Communication. This 2-hour workshop will help you successfully apply risk communication principles when interacting with workers regarding risks in the workplace. Regina is the co-author of Risk Communication: A Handbook for Communicating Environmental, Safety, and Health Risks.

PRESENTER:
Regina Lundgren

48. Toxicology Review

This session will review basic concepts of toxicology including common definitions, dose response, mechanisms of toxicology and other general concepts of how chemicals interact with the human body. Completion of this session will help participants who teach health and safety courses that contain components of toxicology develop a stronger understanding of toxicological principles as they are applied to work environment health and safety. This session will also help those who wish to have a deeper understanding of toxicology principles and how they can be applied in the workplace. There will be a small group activity with this session.

PRESENTER:
United Steelworkers (USW),
Bernie Mizula

49. Development of New Trainers

This session uses a small group activity to interact participants from different working groups to share what has helped them as trainers to develop their skills, make their presentations comfortable and have a positive impact on their students. The final outcome is for each small group's response to be a learning experience for everyone.

PRESENTER:
International Chemical
Workers Union Council
(ICWUC), Bill Hoobler and
Carol Ellis

50. Incident Investigation: Determining Root Causes, System Failures and Recommendations for Safer Processes and Workplaces

Completing a thorough incident investigation to determine what caused or allowed the incident to transpire is an important function in creating safer work processes and workplaces. We will look at a complex investigation and how the determination of the root causes improved the process to ensure the hazards were removed and the process deemed safe.

PRESENTER:
United Steelworkers (USW),
Wes Moore and David
Cassady

51. New Electronics and Technologies in the Classroom

Dean Beaver has been the lead instructor for CPWR at HAMMER for over 10 years, and will discuss what all hazardous waste refresher instructors know only too well, the challenges of making the refresher training new and relevant, interesting and engaging. His presentation will include explanations and demonstrations of new electronics and technologies in the classroom for CPWR worker training courses (including Hazwoper, Respiratory Protection, LOTO, Beryllium) at the HAMMER Federal Training Center. Participants should gain a working knowledge of how to use these electronic devices for students to retrieve practical information in real time and solve problems in the classroom.

PRESENTER:
**CPWR - The Center for
Construction Research and
Training, Dean Beaver**

52. Cranes and Rigging Hands on Training Techniques

In order to improve the understanding of cranes and rigging safety a set of hands-on activities have been developed to accompany the UAW curriculum. These trainings have been conducted for safety representatives, in joint labor/management training sessions in Ohio, North Carolina and Pennsylvania and Michigan. During these sessions models are used for live demonstration using a tabletop model of a lifting system. Sessions include 2 hours of hands on exercises in an 8-hour course. Up to 6 hours of hands-on examples are covered in the 4-day course. This portable model consists of metal parts, force gauges, chains, slings and pulleys. The following topics are discussed using the hands on models:

- The strains on sling are dependent on sling angle.
- Demonstration of the purpose of a snatch block (i.e. avoid side pulls)
- Different methods of attaching synthetic slings to create choker hitch, basket hitch and single leg attachments
- Shock loading using a live weight
- Purpose and methods of cribbing
- Chain shorteners
- Appropriate use of hoist rings
- The purpose and use of spreader bars
- Taglines and bowlines.

Many of these examples have been drawn from lessons learned after a fatality investigation uncovered dangerous equipment and unsafe conditions that were routine prior to the fatality. These case studies will be presented.

PRESENTER:
**United Auto Workers (UAW),
Carl Little**

53. Kagan Professional Development: The Dynamic Trainer (*continued*)

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PRESENTER:
**Kagan Professional
Development, Christie Kagan**

