

2014 Annual Meeting Agenda

Monday, April 21, 2014

1:00 pm	Lodging Check-in (early arrivals based on room availability)	
5:00 pm–6:00 pm	Registration	Auditorium Foyer
6:00 pm–7:00 pm	TRADEing Post Setup	Commons Building
5:30 pm–7:30 pm	DINNER SERVED IN DINING HALL	Commons Building
5:30 pm–10:00 pm	Informal Networking	Commons Building Roosevelt Room

Tuesday, April 22, 2014

6:30 am–9:00 am	BREAKFAST SERVED IN DINING HALL	Commons Building
7:00 am–6:00 pm	Registration	Auditorium Foyer
7:00 am–6:00 pm	TRADEing Post Setup	Commons Building

MEETINGS

7:30 am–11:30 am	DOE Meteorological Coordinating Council (DMCC)	Classroom 160 IW
8:00 am–4:00 pm	Continuity of Operations Subcommittee (COOPSC)	Classroom 151 IW
8:00 am–10:30 am	Hazards Assessment Subcommittee (HASC)	Classroom 161 IW
8:00 am–11:30 am	Exercise and Drill Subcommittee (EXDSC)	Classroom 111 1E
8:00 am–5:00 pm	FFRSC Task Group Meeting	Conference 151A IW
8:30 am–11:30 am	Emergency Public Information Subcommittee (EPISC)	Classroom 158 IW
11:30 am–12:00 pm	SCAPA/DMCC/HASC Joint Session	Classroom 161 IW
11:00 am–12:30 pm	EMAC – Feds Only	Classroom 154 IW
11:30 am–1:30 pm	LUNCH SERVED IN DINING HALL	Commons Building
1:00 pm–4:00 pm	EPISC and EXDSC Joint Session on Social Media	G24 Computer Lab
1:30 pm–5:00 pm	Subcommittee on Consequence Assessment and Protective Actions (SCAPA)	Classroom 161 IW
2:30 pm–4:30 pm	ECN Users Group Meeting	Classroom 160 IW
5:00 pm–6:00 pm	National Atmospheric Release Advisory Center (NARAC) and HotSpot Users' Group	Classroom 161 IW
5:00 pm–6:00 pm	EMI SIG Steering Committee	Conference 151A IW
5:30 pm–7:30 pm	DINNER SERVED IN DINING HALL	Commons Building
5:30 pm–10:00 pm	Informal Networking	Commons Building Roosevelt Room

*Hot food served until 8:30 a.m.

**Hot food served until 1:00 p.m.

Wednesday, April 23, 2014

7:00 am–5:00 pm	Registration	Auditorium Foyer
7:00 am–5:00 pm	TRADEing Post	Commons Building
6:30 am–9:00 am*	BREAKFAST SERVED IN DINING HALL	Commons Building
8:30 am–11:30 am	<p style="text-align: center;">Opening Session Moderator: Robert Gee</p> <p style="text-align: center;">Welcome/Opening Remarks DOE Office of Emergency Operations (NA-40) Admiral Joseph Krol, Associate Administrator, DOE Office of Emergency Operations (NA-40)</p> <p style="text-align: center;">Subcommittee/Working Group Reports</p> <p style="text-align: center;">Special Awards</p> <p style="text-align: center;">BREAK</p> <p style="text-align: center;">DOE Headquarters Updates: Tom Staker, DOE Office of Health, Safety, and Security (HS-45)</p> <p style="text-align: center;"><u>Independent Oversight Lessons Learned from Targeted Reviews of Emergency Preparedness for Severe Natural Phenomena Events at DOE and NNSA Facilities</u> Randy Griffin, DOE HS-45, John Bolling, Deb Johnson, Teri Lachman, and Tom Rogers, Eagle Research Group</p>	Auditorium
11:30 am–1:30 pm**	LUNCH SERVED IN DINING HALL	Commons Building
11:30 am—12:45 pm	Environmental Management Emergency Management Coordinators Meeting	Auditorium
1:00 pm–2:30 pm	<p style="text-align: center;">WORKSHOP <u>Beyond Design Basis Events</u> David Freshwater and William Froh, NA-41; John Mitchell, Knowledge Systems Solutions (KSS)</p>	Auditorium
1:00 pm–4:00 pm	FFRSC Task Group Meeting	Classroom 151 IW
2:30 pm–3:00 pm	BREAK	
2:30 pm–3:00 pm	EMI SIG Steering Committee Meeting	Conference 151A IW
3:00 pm–4:30 pm	<p style="text-align: center;">Benchmarking: Severe Events Planning and Implementation Robert Gee, Moderator</p>	Auditorium
5:30 pm–7:30 pm	DINNER SERVED IN DINING HALL	Commons Building
5:30 pm–10:00 pm	Informal Networking	Commons Building Roosevelt Room

*Hot food served until 8:30 a.m.

**Hot food served until 1:00 p.m.

Thursday, April 24, 2014

7:00 am–5:00 pm	Registration	Auditorium Foyer
7:00 am–5:00 pm	TRADEing Post	Commons Building
6:30 am–9:00 am*	BREAKFAST SERVED IN DINING HALL	
		Commons Building

8:00 am–9:30 am CONCURRENT SESSIONS

Session 1A Severe Events Moderator: Eugene McPeek Auditorium	Session 1B Exercises Moderator: Jeanne McBride Classroom 161 IW	Session 1C Consequence Assessment Moderator: Becky Bullard Classroom 151 IW
<p><u>Where Do We Stand Today: Technical Planning Basis and Severe Events</u></p> <p>Presenters: Chuck Rives, Pantex; Michelle Wolfram, ORNL; Justin Harty, ANL; Jamie Wright, Y-12</p> <p><u>Status of Severe Event Planning at Y-12</u></p> <p>Presenters: Robert Gee and Jamie Wright, Y-12</p> <p><u>Now what? Planning and Conducting Severe Event Exercises</u></p> <p>Presenter: Nore, Terry, Y-12</p>	<p><u>When You Feel the Earth Move Under Your Feet</u></p> <p>Presenters: Theresa McCollom and Patty Billy, LLNL</p> <p><u>The Perfect Storm: How a localized epidemic exercise stretched the boundaries for Emergency Management, Telecommunications, Mission, and COOP</u></p> <p>Presenter: Dale Leschnitzer, LANL</p> <p><u>Risk Communication Principles and Severe Events: What to do?</u></p> <p>Presenter: Ron Edmond, ORAU-ORISE</p>	<p><u>How AMWTP Stopped an Alert from Becoming a Site Area Emergency</u></p> <p>Presenter: Bryant Pergerson, Idaho Treatment Group</p> <p><u>Severe Event Planning for a Complex</u></p> <p>Presenter: Jamie Wright, Y-12</p> <p><u>Rapid Initial Protective Action Implementation</u></p> <p>Presenter: Justin Harty, ANL</p>

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Thursday, April 24, 2014 (continued)

9:30 am–10:00 am

BREAK

10:00 am–11:30 am

CONCURRENT SESSIONS

<p>Session 2A Severe Events</p> <p>Moderator: Forest Holmes</p> <p>Auditorium</p>	<p>Session 2B Emergency Public Information</p> <p>Moderator: Ron Edmond</p> <p>Classroom 161 IW</p>	<p>Session 2C Exercise Builder Version 8</p> <p>Moderator: Jim Noey</p> <p>Classroom 151 IW</p>
<p><u>Establishing a Volunteer Employee Disaster Response Team at LLNL</u></p> <p>Presenter: John Richards, LLNL</p>	<p><u>Using Social Media in Emergency Public Information</u></p> <p>Presenter: Jeffery Donaldson, NNS-NSTec</p>	
<p><u>Coordination with Local Agencies: Who You Gonna Call?</u></p> <p>Presenter: Carissa Schultz, INL</p>	<p><u>Beyond Social Media: Virtual Operations for Severe Events</u></p> <p>Presenter: Holly Hardin, ORAU-ORISE</p>	<p><u>Overview of Exercise Builder, Version 8</u></p> <p>Presenters: Jim Noey, ORAU-ORISE, Terry Nore, Y-12, and Patty Billy, LNL</p>
<p><u>Lessons Learned and Best Practices from a Severe Event Exercise at ORNL</u></p> <p>Presenter: Cliff Hastings, ORNL</p>	<p><u>Exercising Social Media Solutions</u></p> <p>Presenters: Holly Hardin and Tony Hupp, ORAU-ORISE</p>	

11:30 am–1:30 pm**

LUNCH SERVED IN DINING HALL

Commons Building

*Hot food served until 8:30 a.m.

**Hot food served until 1:00 p.m.

Thursday, April 24, 2014 (continued)

1:00 pm–2:30 Pm

CONCURRENT SESSIONS

<p>Session 3A Severe Events</p> <p>Moderator: Holly Hardin</p> <p>Auditorium</p>	<p>Session 3B Emergency Equipment and Communications</p> <p>Moderator: Jeff Leifel</p> <p>Classroom 161 IW</p>
<p>Severe Events Planning - Multiple Facilities</p> <p>Facilitator: Carol V. Bonney, SNL</p> <p>The National Near Miss Program: Turning Lessons Learned into Lessons Applied—Overview and Implications for DOE Severe Events</p> <p>Presenters: Reed C. Hodgkin, AlphaTRAC, and Chief Tom Hicks, International Association of Fire Chief</p> <p>Snakes Alive!: Developing a Snake Relocation Program at Oak Ridge National Laboratory</p> <p>Presenter: Thomas Kerr, ORNL</p>	<p>Cyber Security and Emergency Response: Mesonets, Meteorology, and Communications</p> <p>Presenters: Cliff Glantz, PNNL, and John Ciolek, AlphaTRAC</p> <p>Electronic Operational Emergency Notification</p> <p>Presenter: Michael Venegoni, BNL</p> <p>Using SharePoint to Manage a Document Review Process</p> <p>Presenter: Paul Stoudenmire, EOTA (remote presenter)</p>

2:30 pm–3:00 pm

BREAK

2:30 pm–3:00 pm

EMI SIG Steering Committee Meeting

Conference 151A IW

<p>Closing Session</p> <p>Moderator: Robert Gee, Y-12</p> <p>Auditorium</p>
<p>Closing Keynote Address:</p> <p>Steve Crimando Principal at Behavioral Science Applications</p> <p>Awards</p> <p>Open Discussion</p> <p>Adjournment</p>

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2014 Annual Meeting Agenda



Thursday, April 24, 2014 (continued)

4:30 pm–5:30 pm	EMI SIG Steering Committee Meeting	Conference 151A IW
4:30 pm–5:30 pm	TRADEing Post Take-Down	Commons Building
5:30–7:30 pm	DINNER SERVED IN DINING HALL	Commons Building
5:30 pm–10:00 pm	Informal Networking	Commons Building/ Roosevelt Room

Friday, April 25, 2014

6:30 am–9:00 am*	BREAKFAST SERVED IN DINING HALL	Commons Building
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MEETINGS

8:00 am–2:00 pm	First and Field Responders Subcommittee (FFRSC)	Classroom 154 IW
8:00 am–12:00 pm	Training Subcommittee (TSC)	Classroom 201 IE

11:30 am–1:30 pm**	LUNCH SERVED IN DINING HALL	Commons Building
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TRAINING

8:00 am–12:00 pm	Exercise Builder Version 8 Training Jim Noey	G24 Computer Lab
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NOTE: NCTC Meal Plan begins with dinner on the day of check-in and ends with lunch on the day of check-out.

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**Hot food served until 1:00 p.m.

IE = Instructional Building East
IW = Instructional Building West

**Aluzzi, Fernando, and John Nasstrom, LLNL
NARAC/HotSpot/EPIcode User Group Meeting**

An update on NARAC Web, HotSpot, and EPIcode features available to consequence assessment model users will be presented. Also included is an update on NARAC research, responses, and training.

**Bellinger, Tom, Y-12 NSC
DMCC**

ANS/ANSI 3.11 Update/Sonics/Turbulence

Update on the Revision of ANSI/ANS-3.11-2005 (R2010) Determining Meteorological Information at Nuclear Facilities. A major change in this revision includes proposing to use 3D sonic sensors for turbulence measurements and moving away from the long-used Pasquill Gifford stability classes. This will provide the needed impetus for the development of newer dispersion models. Other minor changes will also be discussed including SQA, remote monitoring, etc.

**Bond, JayneAnne, and Doug Craig, PhD., ATL International Inc.; Po-Yung Lu, PhD., Consultant, ORAU; Tom Tuccinardi, Consultant, ATL International Inc.
SCAPA**

The Evolution of TEEL Values

Publication of Revision 28 of the PAC dataset will be the single most extensive revision of the PAC dataset, since its creation by Doug Craig in the 1990s. This revision will complete the process, begun with Rev. 27, of implementing the recommendations from an outside expert review panel. These recommendations and the resulting revisions address updated procedures, approaches to the selection of toxicity data, and changes to the formulas used in calculating TEEL values. In addition, Rev 28 will reflect new approaches to developing TEELs for metal salts and petroleum products. TEEL values for 20 biotoxins will also be included in Rev. 28.

**Bonney, Carol, Sandia National Laboratory
Session 3A
Severe Events Planning - Multiple Facilities**

**Ciolek, John, AlphaTRAC
DMCC**

Mesonet Data Quality: Status and Discussion

Facilities that have a potential airborne offsite impact must rely on externally controlled meteorological data from mesonets. The quality of mesonet data must be continually evaluated and accounted for before the data can be used. This session describes the data quality currently available for mesonets and continues the discussion on how to evaluate, select, and use mesonet data and improve its quality.

**Clawson, Kirk, NOAA ARL/FRD
DMCC**

Project Sagebrush Phase I Dispersion Study Update

Phase 1 of Project Sagebrush took place in October 2013. The focus of this phase was on dispersion in unstable to neutral atmospheric conditions. Five tracer releases were conducted in the 3 Pasquill-Gifford stability categories B through D. An aircraft from the University of Tennessee Space Institute was used for real-time vertical tracer sampling. This presentation will compare and contrast Projects Prairie Grass and Sagebrush and provide preliminary results from Project Sagebrush Phase 1.

Clawson, Kirk, NOAA ARL/FRD

Dennis Finn, Brad Reese, Rick Eckman, Roger Carter (Note: they will not be in attendance.)

SCAPA

Online Demonstration of HyRAD, A Consequence Assessment Tool For The NOAA HySPLIT Model

The newly developed HyRAD dispersion model, which is based on the NOAA HySPLIT model, will be demonstrated.

Crimando, Steven M.

Closing Keynote

Steven M. Crimando is Principal at Behavioral Science Applications. He is a subject matter expert and trainer specialized in human factors/behavioral sciences in homeland and corporate security, violence prevention and intervention, emergency and disaster management.

Steve is a Board Certified Expert in Traumatic Stress (BCETS) and Certified Trauma Specialist (CTS). He holds Diplomate status with the American Academy of Experts in Traumatic Stress and the National Center for Crisis Management. He has been awarded Level V Certification in Homeland Security. He is recognized as an expert in the behavioral response to CBRN emergencies and mass violence.

Steve is the Director of Training for the New Jersey Division of Mental Health Services-Disaster & Terrorism Branch, and consultant and trainer for the federal Substance Abuse Mental Health Services Administration's (SAMHSA) Disaster Technical Assistance Center (DTAC).

Steve served as a Disaster Field Operations Supervisor for FEMA's response to the 9/11 World Trade Center attacks and coordinated onsite psychological services at New Jersey's Anthrax Screening Center. He also helped coordinate crisis response efforts at such incidents as the 1993 World Trade Center bombing, TWA Flight 800 crash and many natural disasters. He serves as a consultant and trainer for the U.S. Department of Homeland Security; U.S. Department of Justice-FBI; Federal Emergency Management Agency (FEMA); U.S. Public Health Service; U.S. Postal Service and the United Nations. Steve has appeared on many network and cable news and talk shows, as well as in the courts as a subject matter expert addressing public and private sector crisis prevention and response.

Donaldson, Jeffery, NNSA-NSTec

Session 2B

Using Social Media in Emergency Public Information

On April 23, 2014, the Nevada National Security Site will become the first in the NNSA complex to conduct a major, multi-agency FSE using social media as the primary means of communicating EPI. EPI Coordinator Jeff Donaldson will discuss the planning and potential execution of this multi-faceted, groundbreaking exercise.

Edmond, Ron, ORAU-ORISE

Session 1B

Risk Communication Principles and Severe Events: What to do?

Over the years, severe events such as fires, tornadoes, hurricanes, flooding, earthquakes, and super storms have impacted DOE sites, their contractors, and their employees. Even with appropriate planning and preparation to protect assets, operations, and employees, communication still remains a key to successful response. Understanding how stakeholders react and internalize emergency public information will help you to better prepare severe event-related messaging. This session focuses on the importance of understanding demographics and best practices to create a successful response.

**Freshwater, David, and William Froh, NA-41, and John Mitchell, Knowledge Systems Solutions
Workshop: Beyond Design Basis Events**

The workshop will update specific aspects of emergency planning for severe events related to the OE-1, examining specific requirements that address planning needed to respond to severe events; planning for the response to simultaneous accidents at multiple facilities; coordination of site, facility, and community emergency plans; and integration of the site's emergency management, security, and continuity of operations (COOP) activities.

Gee, Robert and Jamie Wright, Y-12 NSC

Session 1A

Status of Severe Event Planning at Y-12

This presentation provides an overview of work done at Y-12 to improve the capabilities for responding to severe events and describes activities done as a result of the guidance in OE-1: 2013-01, "Improving Department of Energy Capabilities for Mitigating Beyond Design Basis Events."

Glantz, Cliff, PNNL, and John Ciolek, AlphaTRAC

Session 3B

Cyber Security and Emergency Response: Mesonets, Meteorology, and Communications

Emergency Operations Centers need to address the cyber security threats and the associated risks to emergency response capabilities. Meteorology data acquisition from mesonets and other systems illustrate some potential vulnerabilities.

Glantz, Cliff, PNNL

SCAPA

Welcome and Review of SCAPA Meeting Agenda

Welcome SCAPA members and guests. Review the day's agenda.

Glantz, Cliff, PNNL, John Ciolek, AlphaTRAC, Jeremy Rishel, PNNL, Carl Mazzola, CBI

SCAPA

The New DOE SQA Guide: Implications for Emergency Management and All DOE Software

The new DOE Quality Assurance Order (DOE O 414.1D) has implications for the software quality assurance (SQA) for not only safety software, but all software used in the DOE complex. SCAPA members are involved in writing the SQA guidance document (DOE G 414.1-4) that will detail the SQA expectations for DOE software, including software used for consequence assessment and emergency management applications. This presentation will report on the status of the SQA Guide and implications for consequence assessment and other types of software used at DOE facilities.

Glantz, Cliff, PNNL, et. al.

SCAPA

The CMM Wizard – Ready to Roll

The CMM Wizard is an online tool that is designed to replicate the functionality of the Microsoft Excel-based CMM Workbook, but to offer the ability to save and re-load chemical mixtures and results for follow-up analyses, print hardcopies of results, and provide results for multiple receptor distances and PAC values in a single session. The Wizard has been tested and is ready to become an operational product when the next revision to the CMM is released.

Griffin, Randy, DOE HS-45;

John Bolling, Deb Johnson, Teri Lachman, and Tom Rogers, Eagle Research Group

Opening Session

Independent Oversight Lessons Learned from Targeted Reviews of Emergency Preparedness for Severe Natural Phenomena Events at DOE and NNSA Facilities

During 2012 and 2013, as follow-up to the 2011 Japan earthquake and tsunami, the DOE Office of Enforcement and Oversight (Independent Oversight), within the Office of Health, Safety and Security, conducted targeted reviews at selected DOE and NNSA sites that examined the sites' preparedness for plausible severe natural phenomena events, including some events that represented beyond design basis events. This presentation will provide lessons learned from these reviews in the areas of technical planning basis, training and drills, offsite response interfaces, emergency facilities and equipment, emergency medical support, and termination and recovery.

Hardin, Holly, ORAU-ORISE

Session 2B

Beyond Social Media: Virtual Operations for Severe Events

This presentation addresses the use of virtual operations support teams and crowdsourcing for enhancing joint information system and EPI operations during a severe event. Benchmarking uses of virtual operations support teams such as during Hurricane Sandy and crowdsourcing during the 2013 Colorado Floods will be discussed. Additionally, this presentation will address low-cost, off-the-shelf technologies that can be incorporated into joint information systems to enhance EPI and communication flow during an emergency.

Hardin, Holly, and Tony Hupp, ORAU-ORISE

Session 2B

EPISC & TECHWG Focus Session: Exercising Social Media Solutions

As an objective for the 2013-2014 planning period, the EPISC has been researching solutions for safely exercising social media. The TECHWG has identified a few solutions and this session would provide the EPISC and the TECHWG the opportunity to hold a focus group in order to find technology solutions.

Harty, Justin, ANL

Session 1C

Rapid Initial Protective Action Implementation

Argonne National Laboratory has developed an integrated response tool that supports Emergency Action Levels by allowing the user to rapidly identify necessary protective actions associated with a specific hazardous material event. The "Protective Action Plans" provide hazardous material information, Emergency Planning Zone information, a basis for consequence assessment, and serve a resource for implementing traffic control, incident command, and first aid. The Protective Action Plans allow a diverse group of emergency responders both on-site and off-site, in the field, or in the Emergency Operations Center to operate on under the same assumptions and stay on the same page.

Hastings, Cliff, ORNL

Session 2A

Lessons Learned and Best Practices from a Severe Event Exercise at ORNL

Oak Ridge National Laboratory conducted a full-scale exercise in April of 2013 that focused on response to a severe event. The scenario included multiple seismic events which impacted many facilities across the site and the surrounding area. This scenario severely limited response from off-site resources so that the ability of on-site response personnel to manage the event could be evaluated. During the planning and execution of this exercise, an innovative concept and organizational structure was developed to simulate the anomalies associated with a severe event. This presentation will cover the best practices and lessons learned from this severe event exercise.

Kerr, Thomas, ORNL

Session 3A

Snakes Alive!: Developing a Snake Relocation Program at Oak Ridge National Laboratory

Snakes in populated areas of DOE/NNSA sites are a problem anywhere. Severe events, such as flooding and possibly earthquakes, can cause snakes to enter more populated areas in larger numbers than usual. This presentation focuses on the development of a snake relocation program at Oak Ridge National Laboratory to deal safely with the problems that arise when you mix people with snakes. It includes distinguishing between venomous and non-venomous snakes and a demonstration of the construction and use of the tools needed to capture and relocate them safely.

Leschnitzer, Dale, LANL

Session 1B

The Perfect Storm: How a localized epidemic exercise stretched the boundaries for Emergency Management, Telecommunications, Mission, and COOP

In August 2013 Los Alamos National Laboratory conducted the “Legion of Darkness” Table Top Exercise. The objectives looked at how a small, localized epidemic would disrupt a major Mission Essential Function. The exercise stretched across many facets of LANL and municipal entities and showed the true interdependencies known, but rarely documented. The exercise is scalable and adaptable and could easily be run at almost any location.

Leschnitzer, Dale, LANL

COOPSC

2014 COOP Virtual Table Top Exercise

The EMI SIG COOP Subcommittee will be conducting a Virtual Table Top Exercise in the summer of 2014. This talk will present the objectives and strategies behind the exercise. One of the major goals for the VTX is that it scales and can be run at any location regardless of the mission elements involved.

Luke, David, Thomas Jefferson Site Office

HASC

Lessons Learned in the Screening and Evaluation of Chemical Mixtures

Lessons learned in the screening and evaluation of chemical mixtures, with the goal of avoiding over-conservatism. The presentation will mix in chemistry principles and take the audience through a real case study of an acid mixture that initially exceeded PAC-2 at 30 meters. By understanding the properties of the mixture and applying chemical principles, the mixture was screened out. Topics covered to include: mis-application of MSDSs, mistakes with water content, analyzing the mixture versus analyzing the raw ingredients, using partial vapor pressure tables to directly screen chemicals out, and manually calculating evaporation rates.

McCullom, Theresa, and Billy, Patty, LLNL

Session 1B

When You Feel the Earth Move Under Your Feet

LLNL has developed a Disaster/Self-Help Program, which is designed to benefit employees, visitors, and guests for up to 72 hours following a major disaster (i.e., earthquake). The intent of the program is that employees would provide aid to all 6000+ personnel on the site at any given time, without benefit of first responders.

Noey, Jim

Session 2C

Exercise Builder Version 8 Overview

Exercise Builder Version 8 (EBv8) uses state-of-the-art design and development technology. With its updated user interface, database management, and easy data exchange with other applications, Version 8 provides new functionality and features, which make developing a complete Exercise Plan (ExPlan) an ease. It also provides the user with many ExPlan customization options. The presenter will discuss the EBv8 development process and demonstrate the new functionality and capabilities of the program.

Noey, Jim, ORAU-ORISE; Terry Nore, Y-12, and Patty Billy, LNL

Exercise Builder Version 8 Training

Exercise Builder Version 8 (EBv8) uses state-of-the-art design and development technology. With its updated user interface, database management, and easy data exchange with other applications, Version 8 provides new functionality and features, which make developing a complete Exercise Plan (ExPlan) an ease. It also provides the user with many ExPlan customization options. During this four-hour session, the attendee will gain an understanding of how to use EBv8 through instructor-led demonstrations and performance-based attendee activities.

Nore, Terry, Y-12 NSC

Session 1A

Now what? Planning and Conducting Severe Event Exercises

This presentation (including questions and answers) will focus on the efforts and lessons learned that Y-12 has experienced in incorporating beyond design basis / severe events into the Y-12 emergency response drill and exercise program.

Pergerson, Bryant, Idaho Treatment Group

Session 1C

How AMWTP Stopped an Alert from Becoming a Site Area Emergency

On September 20, 2013, Advanced Mixed Waste Treatment Project (AMWTP) on the INL declared an Alert due to a fire in the highly contaminated North Box Line of the Treatment Facility. The quick response of the AMWTP ERO prevented an escalation to a Site Area Emergency and an off-site release. Learn what actions the Emergency Action Manager and the Operators took to protect personnel, the environment and AMWTP property.

Richards, John, LLNL

Session 2A

Establishing a Volunteer Employee Disaster Response Team at LLNL

This presentation will discuss LLNL's efforts to establish a Community Emergency Response Team (CERT) to support disaster response at LLNL.

Rives, Charles, Pantex

SCAPA

This session will use the format of an interactive TV game show. The room occupants will be divided to form two teams. The teams will compete in the game show format to answer questions about DOE O 151.1C, DOE G 151.1-2, dispersion modeling, toxicology, radiological dose assessment, and related material.

Rives, Charles, Pantex; Wolfram, Michele, ORNL; Harty, Justin, ANL; Wright, Jamie, Y-12

Session 1A

Where Do We Stand Today: Technical Planning Basis and Severe Events

Sites are at different stages of implementing the Hazards Survey requirement and Emergency Planning Hazards Assessment recommendations of HSS OE1. This panel discussion will provide an opportunity for sites to discuss what they have done so far, planned work, and lessons learned.

Rolph, Glenn, NOAA ARL/HQ

DMCC

Modeling the Fallout from Stabilized Nuclear Clouds using the HYSPLIT Atmospheric Dispersion Model

The Hybrid Single Particle Lagrangian Integrated Trajectory (HYSPLIT) model has been configured to simulate the dispersion and deposition of nuclear materials from a surface-based nuclear detonation using publicly available information on nuclear explosions. The model was evaluated against the measurements of nuclear fallout from six nuclear tests conducted between 1951 and 1962 at the Nevada Test Site using the global NCEP/NCAR Reanalysis Project (NNRP) and the Weather Research and Forecasting (WRF) meteorological data as input. The overall result was that the different plume simulations using WRF data had more consistent performance than the plume simulations using NNRP data fields.

Schultz, Carisa, INL

Session 2A

Coordination with Local Agencies: Who You Gonna Call?

When you have an emergency that affects more than just your facility or your facility is located in someone else's jurisdiction, who will you call? Do you know them? Will they know you? Here's how INL Emergency Public Information is working with local agencies during emergencies. We regularly drill and exercise with the local city fire and police to practice what will happen if that event occurs. In addition, we have a regional Public Information Officer (PIO) group who meets quarterly to share experiences and talk about upcoming events and training opportunities.

Stoudenmire, Paul F., EOTA

Session 3B

Using SharePoint to Manage a Document Review Process

The efficient creation, review, and approval of documents and document packages has been a nagging problem and one that can delay an organization's ability to respond to change. Document packages including disaster plans, exercise plans, training materials, and emergency management policy and procedures are frequently in need of review, update and approval. Email may not be a viable solution for routing these packages because of the size and the need to keep the individual files intact in an organizational structure. EOTA has found a solution to this problem using SharePoint and InfoPath. Using SharePoint Document Sets, Workflows and Form Libraries, the EOTA manages a training review and compliance process.

Tribble, Ahsha

Dr. Ahsha Tribble, Senior Advisor to the Office of the Secretary, is a new addition to the DOE leadership team.

Dr. Tribble will be working across the Department to define and integrate capabilities to carry out DOE's responsibilities for emergency response, incident management, and Department and industry preparedness and short-term resilience actions -- all in service of the Department's efforts to enhance the security, reliability, and resilience of the nation's energy infrastructure. Her role is a key part of our emphasis on strengthening management and performance across our agency.

To fulfill these responsibilities, she will work closely with the relevant DOE offices to understand and coordinate our capabilities. We ask that you make every effort to engage and assist her in this work.

Dr. Tribble spent the last three years serving on the White House National Security Council Staff, and held the positions of Director for Critical Infrastructure Security and Resilience, Senior Director for Response and, most recently, Interim Deputy Homeland Security Advisor. During her tenure, she coordinated interagency response actions during national disasters such as the 2011 Japanese earthquake/tsunami/nuclear incident, Hurricanes Irene and Sandy, the 2012 derecho, and multiple wildfires and other severe weather events. She worked on national continuity policy, climate preparedness and resilience for infrastructure, and Hurricane Sandy recovery. She also spent much of her time fostering relationships with DOE and the energy sector around incident management and emergency response, a high priority of the Administration.

Venegoni, Michael, BNL

Session 3B

Electronic Operational Emergency Notification

Brookhaven National Laboratory's Office of Emergency Management has created an electronic Operational Emergency Notification (OE) form. This new electronic form replaces the need for faxing the document and allows for an immediate transmission. The OE form can be sent by any mobile device or desktop application from a facility, field, or incident location. BNL currently utilizes iPad's and iPhone's to fill out the OE form and transmit to DOE Headquarters, state and local government officials.

The OE form is fillable and uses dropdown boxes for ease of use on the mobile device. Once completed the OE form is then transmitted via email to all required recipients. There is no longer a need to fill out the OE form by hand and transport to the nearest fax machine. This process has reduced the time of notification from 15 minutes to instantly. During our 2014 no-notice exercise NA-41 noted the process as a best practice. BNL would like to share this best practice with everyone at EMI SIG. We will provide an overview on development, use of the electronic form, and ease of transmission.

**Wolfgram, Michele, ORNL
HASC**

Hazards Survey Tools

As part of developing Hazards Surveys in compliance with DOE Order 151.1C, several tools have been created to assist the author in successful completion of these documents. Specifically, job aids and worksheet were developed to help determine the appropriate Potential Emergency Conditions and Impacts to identify for each facility and promote consistency within and across Hazards Surveys. This presentation will highlight these tools and explain their use in the Hazards Survey process.

**Wright, Jamie, B&W Y-12
Session 1C**

Severe Event Planning for a Complex

This presentation discusses the status of the Y 12 National Security Complex severe event planning and approach taken to determine consequences that could result from multiple hazardous material releases, challenges involved, and future activities. The Y-12 Emergency Management Program Organization has been working during the past year to develop a technical basis for development of Emergency Action Levels for multiple chemical and radiological hazardous material releases.

**Yu, Xiao-Ying, PNNL
SCAPA**

CMM Updates

We will present a review of the research activity in the past year. The 15% quality assurance for the release of CMM Rev. 27A was completed. The transition from Mode of Action and Target Organ Effect to Target Organ System Effects (TOSE) and Specific Target Organ Effects (STOE) was implemented in the CMM Workbook and the new CMM wizard platform.

**Yu, Xiao-Ying, PNNL
SCAPA**

CMM Enhancements

To enhance the DOE Chemical Mixture Methodology (CMM), modified Target Organ System Effects, Mode of Action, and Target Organ Specific Toxic Effects are implemented in the CMM Workbook and Wizard. Research was conducted using 127 case studies with three source concentration scenarios. Using the modified Target Organ System Effects to complement the existing Mode of Action, results indicate improved benefits in applying the CMM among almost all test cases. Close examinations of the few outliers reveal that the revised approach reduces under conservatism in the old approach. Another revision to the CMM is the improved description of respiratory irritants. Using recommendations from toxicology experts from CMWG, the respiratory irritants are now broken down into three categories, severe, moderate, and mild with corresponding weighting factors like other irritants in the CMM dataset. Extensive studies were conducted using the 127 test cases and three scenarios. The results indicate improved assessment of respiratory irritants. Finally, additional ideas are proposed for future development of the CMM.

Yu, Xiao-Ying, PNNL, et. al.

SCAPA

CMM Workbook and Wizard Status

The revised CMM Workbook incorporating TOSE, STOE, and MOA will be demonstrated. The newly added features will be highlighted. Accordingly, the CMM Wizard, the new web-based CMM platform, will be illustrated with key features illustrated. Results from the CMM Workbook and CMM Wizard were thoroughly reviewed and compared. General guidelines for software assurance and verifications were strictly followed in validating the CMM Workbook and Wizard.