



**Highlights**  
**SCAPA Teleconference 11-04**  
**August 18, 2011, 12:30–1:30 p.m. EDT**

**Participants**

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Denny Armstrong, URS SMS SRS  
Jayne-Anne Bond, ATL  
Kirk Clawson, NOAA ARLFRD  
Dorothy Cohen, ORISE  
Doug Craig, ATL  
Dave Freshwater, NA-41  
Cliff Glantz, PNNL  
Jim Jamison, SAIC  
Aprill Jivelekas, Hanford  
Po-Yung Lu, ORNL  
Dan Marsick, HS  
Carl Mazzola, Shaw Environmental

Vern McDougall, ATL  
John Naastrom, NARAC LLNL  
Mike O'Keefe, NSTec  
Shanna Petersen, Y-12  
Rocky Petrocchi, Petrocchi Associates  
Bill Possidente, NSTec  
Jim Powers, NA-41  
Frank Roberto, INL  
Brad Salmonson, INL  
Richard Thomas, Intercet  
Michele Wolfgram, ORNL  
Xiao-Ying Yu, PNNL

**Roll Call**

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Carl Mazzola conducted a roll call, noting that 24 emergency management professionals involved in various aspects of the SCAPA and its related programs, as identified in the above teleconference participants list, were present. Teleconference 11-04 was called to order.

**Administrative Matters**

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American Nuclear Society (ANS) 3rd International Topical Meeting on Emergency Preparedness & Response (EP&R) and Robotics & Remote Systems: Carl Mazzola discussed the just-completed ANS topical meeting, held at the Marriott in Knoxville, Tennessee, August 8–10, 2011, which included 14 sessions with 46 papers and a special biosafety panel. The robotics-and-remote-systems portion of the meeting attracted 65 papers. The total of 111 papers was similar to what was received at the 2008 Topical Meeting in Albuquerque. Early planning for the 4th International Topical Meeting on Emergency Preparedness & Response (EP&R) and Robotics & Remote Systems, sponsored by Savannah River Section, will be held in either Charleston, South Carolina or Savannah, Georgia, in the September 2013–March 2014 timeframe.

**SCAPA Working Group Activities**

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***Chemical Exposures Working Group (CEWG)***

**PAC/TEEL Revision 27 (Activity proceeding)**

Work continues on Protective Action Criteria (PAC)/Temporary Emergency Exposure Limits (TEEL) Revision 27, where minor updates are being made to the PAC/TEEL values for several

chemicals. A major change in Revision 27 is the initial incorporation of recommendations to update and improve the TEEL development methodology. These recommendations, made by the external PAC/TEEL Methodology Review Committee, were carefully reviewed by the TEEL Advisory Group and NA-41. NA-41 is coordinating the planning for the implementation of these recommendations.

### **New/TEEL Handbook (Activity proceeding)**

A draft of the new TEEL handbook is incorporating TAG and NA-41 review comments. The revised TEEL handbook will incorporate the enhancements being made in the TEEL development methodology for PAC/TEEL Revision 27.

### ***Chemical Mixtures Working Group (CMWG)***

### **CMM Revision to Increase Benefits (Activity proceeding)**

At a teleconference held on July 11, key CMM working group members discussed proposed strategies to improve the CMM and remove embedded conservatisms. A number of different weighting factor schemes are being considered to reduce over-conservatisms. One approach involves applying weighting factors based on the importance of different Health Code Numbers under each category of Protective Action Criteria (PAC). For example, *minor skin irritation* would be given little or no weighting for PAC-3 or PAC-2, but would be given a higher weighting for PAC-1. A report on the over-conservatism of the current version of the CMM and proposed improvements for Revision 27 is being drafted and will receive working group review.

### **CMM Revision 27 (Activity proceeding)**

Revision 27 of the CMM is targeted for issuance in conjunction with PAC/TEEL Revision 27. In addition to including the likely application of appropriate HCN weighting factors, efforts continue to update the assigned HCNs for chemicals in which generic HCNs of "3.00" and "4.00" are currently used. Juan Yao has joined the CMM team at PNNL as our latest graduate student intern. After helping to train Juan, last year's intern, Hua He, is leaving our program. We wish Hua He success in her future endeavors—in the short-term wrapping up her thesis and graduating from Washington State University—and thank her for her many contributions.

### **CMM Wizard Development (Activity proceeding)**

A beta version of the improved web-based CMM wizard includes features with the following abilities:

- Generates results for up to six downwind receptors and all three PACs in a single processing

- Saves and reloads chemical mixtures for further analyses (e.g., releases under different meteorological conditions)
- Provides enhanced, user-friendly input menus and output products
- Provides improved quality control

The new CMM Wizard is being tested on a PNNL intranet site with plans to migrate the tool to a password-protected Internet site for review and testing by the CMM working group. Work this summer on the CMM Wizard was performed by a Science Teacher And Researcher (STAR) program intern, Alex Booth.

### **HCN Technical Paper (Activity proceeding)**

Work on two CMM journal articles is on the back burner as the team focuses on developing and testing enhancements to the CMM.

### **Biotoxin HCNs (Activity proceeding)**

Development of HCNs for biotoxins remains under discussion.

### ***Consequence Assessment Modeling Working Group (CAMWG)***

#### **Central Toolbox Registry—SQA & Candidate Models (Activity proceeding)**

Software Quality Assurance (SQA) gap analysis review for the APGEMS code is almost complete. The SQA gap analysis and supporting information on the NARAC code is being scheduled for review. The next code to be evaluated is the Nuclear Regulatory Commission's RASCAL model. In FY12, RAMS/LPDM, PUFFPLUME, HYSPLIT and several other codes will be evaluated. Work is underway to develop new SCAPA SQA Toolbox web pages.

### ***Biosafety Working Group (BWG)***

#### **Biosafety Session at EP&R Topical Meeting (Activity can be closed)**

A special session on biosafety was conducted on August 8, 2011 in Knoxville, Tennessee, at the EP&R Topical Meeting. Lessons learned were reviewed by LANL, INL, and ORNL biosafety officers, and a special presentation on biological decontamination was given.

#### **ABSA Meeting and Publications (Activity proceeding)**

Several BWG members plan to attend this fall's American Biological Safety Association (ABSA) annual meeting in Anaheim, California. The conference is from October 27–November 2 and includes four full days of "preconference courses" and three days of presentations and panel discussions. BWG members will present a paper at this meeting.



### ***Source Term Working Group (STWG)***

#### **Non-Respirable Source Term (Activity can be closed)**

The recommendation paper discussing use of non-respirable source terms to include non-respirable dose impacts (e.g., ground shine) was presented at the HASC Meeting and STWG meeting in Charleston, S.C.

#### **Dose-Equivalent Curies (Activity proceeding)**

A survey on the use of Dose Equivalent curies to support emergency planning and plume modeling during real events was conducted. A short guidance paper on limitations and warnings is being developed.

#### **HotSpot Deposition Velocity (Activity proceeding)**

The work scope for this evaluation is being fleshed out.

### **SCAPA Web Page EMU Report**

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An update on SCAPA web page improvements is planned for our next teleconference.

### **EPA AEGLs Status**

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EPA has not scheduled a meeting of the AEGL National Advisory Committee (NAC) since April 2010. With no appointment of a successor to the late Paul Tobin, additional AEGL activity is unlikely prior to publication of PAC/TEEL Revision 27. No updates are posted on its web page since December 2, 2010, and no future AEGL meetings are scheduled.

### **AIHA ERPGs Status**

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EPR Committee will conduct the remainder of its 2011 meetings by teleconference, with the next meeting scheduled for September 13. Eight to ten substances are being evaluated for the next cycle.

### **Round Robin**

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No round robin was conducted.

### **Next SCAPA Conference Call**

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The next SCAPA teleconference is scheduled for **Thursday, October 20, 2011, at 12:30 p.m. EDT.**



## Adjournment

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The teleconference adjourned at **12:59 p.m. EDT**. Carl thanked everyone for their time and contributions.

## SCAPA Program Action Item (AI) Status

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Based on the information exchange from this teleconference, 10 activities were continued, one new activity was opened, and two activities were closed. A status of these activities will be discussed at the next SCAPA teleconference.

The color-coding system used in the teleconference highlights are as follows:

- **Existing AIs that are not closed are colored green.**
- **New AIs are colored yellow.**
- **AIs to be closed are colored blue.**

Respectfully Submitted,

*Carl Mazzola*

SCAPA Executive Secretary