

## Session 24: FRMAC Technical and Operational Update

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### **Abstract:**

If you haven't seen FRMAC today, you haven't seen FRMAC. Every year FRMAC moves ahead by introducing new technology, updating methods and streamlining processes. Invited speakers will quickly review six hot topics:

- Possible New Directions for NIMS Integration O'Laughlin
- FRMAC Assessment Methods - The New EPA PAGs Shanks
- FRMAC Data Management - Paperless FRMAC Clark
- FRMAC Product Distribution - CMweb Reed
- New Line of FRMAC Data Products - Briefing Products Clark
- Major Challenge - Response to a Domestic Nuclear Explosion Augdahl

A third of the session will be reserved for listener questions, including those regarding topics beyond the hot topics presented. Speakers are to be announced.

### **Biographical Sketch of Colleen Tara O'Laughlin:**

Title: DOE/NNSA Consequence Management / Federal Radiological Monitoring and Assessment Center (CM / FRMAC) Program Manager

#### Summary of Experience:

Ms. O'Laughlin has worked for DOE/NNSA for 17 years, 10 years in her current position and 7 years with environmental and waste management programs. She has planned and participated in numerous radiological emergency response exercises and real world events, both in Crisis Response and Consequence Management. She is a member of all of the FRMAC Working Groups: Home Team, Health & Safety, Monitoring and Sampling, Laboratory Analysis, Assessment, and the Chairperson for both, the FRMAC Operations Working Group and the FRMAC Mission Analysis Working Group. Prior to NNSA she trained exotic animals such as, elephants, dolphins, sea lions and large cats.

#### Degrees:

B.S. Biological Sciences, Minor in Chemistry  
A.S. Exotic Animal Training and Management

### **Biographical Sketch of Arthur Shanks:**

Arthur Shanks has a Masters of Science in Nuclear Engineering from the University of New Mexico, Masters of Science in Explosive Engineering with emphasis in Nuclear Weapons from New Mexico Technical Institute. Mr. Shanks is also a Certified Health Physicist, and has worked in Radiation Protection in a variety of specialties for more than 16 years. He has extensive experience in radiation measurement techniques, including field and laboratory measurement instruments as well as data interpretation. Mr. Shanks also has experience with conventional explosives, nuclear weapons, and effect of nuclear weapons. He is currently a manager of Sandia National Laboratories (SNL) Crisis and Consequence Management Department which responds to Nuclear/Radiological Emergencies and is the Chairman of the FRMAC Assessment Working Group

### **Biographical Sketch of Harvey Clark:**

Dr. Harvey Clark has been part of the emergency response community for over 27 years and is currently detailed as a staff scientist to the NNSA Office of Emergency Response (NA-42). As such he led development of Paperless FRMAC and the new Briefing Products. He is also an active member of the FRMAC Assessment Working Group and serves on two of NNSA's special emergency response teams.

**Biographical Sketch of Robert Augdahl:**

National Security Technologies, LLC

Bob Augdahl has 20 years of experience in the field of operational health physics at the Nevada Test Site (NTS). Bob also serves as a Senior Operations Specialist and Field Team Supervisor for the Federal Radiological Management and Assessment Center (FRMAC) response team. Current duties entail planning and coordination of Consequence Management drills and exercises. Duties at NTS have included radiological control technician (RCT), RCT and radiological operations supervisor, radiological training coordinator and sealed source program administrator.

**Biographical Sketch of Alexis Reed:**

Alexis Reed is a scientist for the Consequence Management section at the Remote Sensing Laboratory – Nellis in Las Vegas, Nevada. She completed a B.S. in Radiological Health Engineering, an M.S. in Health Physics, and a Ph.D. in Nuclear Engineering, all from Texas A&M University in College Station, Texas. Alexis is a member of the Health and Safety and Assessment Working Groups within the FRMAC. In addition to planning and executing ingestion pathway exercises, Alexis serves as a Consequence Management Assessment Scientist, Aerial Measuring Systems Mission Scientist, and Search Response Team Technical Mission Leader within the FRMAC.