

Hotel Information

It is the responsibility of each workshop registrant to make his/her own room reservation. Hotel room blocks have been set up for each location at special discounted rates. Detailed information for each location is listed below.

To receive the advertised rate, you must make your room reservation before the designated cut-off date of April 22, 2009, and reference the NIOSH Communications & Tracking Workshop.

Qwest Learning & Conference Center

3898 South Teller Street
Lakewood (Denver), CO 80235
720.962.4000

Room Rate: \$99.00/Night
Cut-off Date: Wednesday, April 22, 2009

Marriott Charleston Town Center

(within walking distance to the Civic Center)
200 Lee Street East
Charleston, WV 25301
1.800.228.9290 / 304.345.6500

Room Rate: \$95.00/Night
Cut-off Date: Wednesday, April 22, 2009

For more information, please contact:

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NIOSH OMSHR Communications & Tracking Workshop

May 13-14, 2009
Lakewood (Denver), CO

May 19-20, 2009
Charleston, WV



NIOSH

NIOSH OMSHR Communications & Tracking Workshop

The National Institute for Occupational Safety & Health (NIOSH) Office of Mine Safety & Health Research (OMSHR) is sponsoring two Communications & Tracking Workshops designed to familiarize attendees with current C&T system technologies and discuss implementation considerations.

These topical areas will directly address issues related to the implementation of systems intended to meet requirements of the MINER Act of 2006. Mine Safety & Health Administration (MSHA) will be participating in the event and will be discussing regulatory and policy considerations relative to the implementation of these systems. The workshops will be identical, although held at different locations.

Draft versions of the NIOSH Communications & Tracking Tutorial will be made available for review. Attendees will also have the opportunity to discuss the latest C&T technologies with key equipment manufacturers.

Both workshops will be held for two full days. A draft agenda is provided on the nioshevents.com Web site and will be updated as changes occur.

Registration Information

Please visit the nioshevents.com Web site to register for either or both of the 2009 NIOSH OMSHR Communications & Tracking Workshop(s). Registration and payment must be received before April 28, 2009.

It is important that each person attending a workshop complete and submit a registration form, including all presenters/exhibitors.

Because of the tremendous amount of material that will be covered in the two-day workshop, lunch and light beverages will be provided to facilitate the schedule. A \$75 registration fee per workshop is required to cover this cost for all attendees, including presenters/ exhibitors.

Agenda

Day 1

- 8:00-8:30 **Registration**
- 8:30-9:30 **Keynote Address**
NIOSH and MSHA perspectives on C&T systems
- 9:30-10:45 **Communication Basics (NIOSH)**
A review of telecommunications and tracking principles of operation, considerations in the mine environment, and an introduction to the NIOSH tutorial document. Followed by Q&A
- 10:45-11:00 **Break**
- 11:00-12:15 **Primary Communication Systems**
- Leaky Feeder Systems
 - Node-Based Systems
 - Wireless LAN
 - WiFi Mesh
 - Ad hoc Mesh
 - Q&A
- 12:15-1:30 **Lunch**
Opportunity to visit vendor booths
- 1:30-2:45 **Tracking Systems**
- Radio-Frequency Identification (RFID)
 - Reverse RFID
 - Radio Node Based
 - Q&A
- 2:45-3:00 **Break**
- 3:00-4:30 **Alternate Communication Links & Interoperability**
- Medium Frequency Systems
 - Through-the-Earth Systems
 - Q&A

Day 2

- 8:30-12:00 **System Manufacturer Presentations**
(System manufacturer speakers by invitation only)
- 12:00-1:30 **Lunch**
Opportunity to visit vendor booths
- 1:30-3:00 **Regulatory Considerations (MSHA)**
- MSHA Approved Systems
 - Program Policy Letter & Regulations
 - Emergency Response Plans
 - Q&A
- 3:00-3:15 **Break**
- 3:15-4:30 **System Implementation**
- System Safety (batteries, permissibility, etc.)
 - Electromagnetic Radiation Safety (blasting caps, personnel, fuel)
 - Electromagnetics (compatibility/interference)
 - Survivability & Reliability (calculations & techniques)
 - Q&A
- 4:30-4:45 **Summary & Adjournment**

