

NIOSH Pre-Conference Workshop Agenda

Presentation Title	Learning Objectives	Presenter	Time
Introduction		Jacob Carr	8:00–8:15 am
An overview of Tools for Respirable Dust and Respirable Crystalline Silica Sampling, Monitoring and Evaluation	By the end of the presentation, participants will be able to • Describe the health effects associated with respirable dust and respirable crystalline silica exposure. • Select appropriate methods for dust sampling, monitoring, and exposure assessment. • Explain the basic principles of laboratory analysis of respirable dust samples. • Describe direct-reading and field-based monitoring technologies and current research in this area.	Rachel Walker Jordan Stancil	8:15 am–9:45 am
Break			9:45 am–10:00 am
Hearing Loss Prevention Through Applied Noise Measurement and Control: Practical Strategies for Exposure Assessment and Mitigation	By the end of the presentation, participants will be able to • Describe the effects of hearing loss and noise exposure. • Summarize current regulatory standards for noise exposure and controls. • Understand strategies for measuring workplace noise and assessing exposure. • Understand strategies for controlling noise in the workplace.	Dave Yantek Jacob Carr	10:00–11:30 am
Lunch			11:30 am–12:30 pm

Ergonomic Risk Factors and Prevention of Musculoskeletal Disorders in Mining	By the end of the presentation, participants will be able to • Define ergonomics • Describe musculoskeletal disorder (MSDs) • Recognize and evaluate symptoms of MSDs • Identify workplace risk factors for MSDs • Use basic tools to assess ergonomic risk • Identify emerging ergonomic technologies, like exoskeletons	Mahiyar Nasarwanji Jordan Stancil	12:30–2:00 pm
Break			2:00 pm–2:15 pm
Lithium-ion battery fire safety and hazardous gas generation	By the end of the presentation, participants will be able to • Overview of Lithium-ion battery technologies • Explore thermal runaway characteristics • Describe an emerging safety issue with explosion-proof enclosures • Determine lithium-ion battery thermal runaway onset temperatures and components of vented gas • Assess the effectiveness of different suppression systems for lithium-ion battery pack fires • Characterize hazardous gases generated from lithium-ion battery pack fires, such as carbon monoxide and hydrogen fluoride	Liming Yuan Tom Dubanawiecz	2:15–3:45 pm
Wrap up			3:45 pm–4:00 pm