

## 2024 SME PCMIA Annual Joint Meeting

Wednesday, October 23, 2024

7:00 AM	Registration opens	
8:00 AM	Opening session and remarks	Barb Arnold
	<b>KEYNOTE: Title forthcoming</b>	<b>Alexandra "Ale" Hakala, Ph.D., NETL</b>
9:00 AM	SME Awards	Barb Arnold
9:30 AM	<b>Technical Session 1: ENGINEERING PROJECTS I</b>	Chair: Amanda Bayne, EHS Support
	Presentation #1: <i>Recent Installation of a Plate and Frame Filter Press at Laurel Prep Plant</i>	Jon Bobbera, P.E., Robindale Energy
	Presentation #2: <i>A study of the key factors associated with a massive pillar failure in an underground limestone mine using numerical models</i>	Gamal Rashed, Ph.D., NIOSH
	Presentation #3: <i>Title forthcoming</i>	
10:50 AM	<b>BREAK</b>	
11:00 AM	<b>Technical Session 2: AUTOMATION AND CONTROL</b>	Chair: Ashish Kumar, Ph.D., PSU
	Presentation #1: <i>Novel Machine Learning-Based Model for the GRC of Tunnels in the Elastoplastic Rock Masses Considering the Strain Softening and the Damaged Zone</i>	Hadi Hasanzadehshooiili, Ph.D., G.E., MASCE, INRS
	Presentation #2: <i>Control Algorithm Development for Thermal Runaway Events of Batteries in Underground Mining Operations</i>	Khadija Omar Said, Graduate Research Assistant, PSU
	Presentation #3: <i>Lithium Battery Review</i>	Dave Yantek or Connor Brown, NIOSH
12:20 PM	LUNCH	Barb Arnold
	<b>LUNCHEON KEYNOTE: Mining Empowers Civilization</b>	<b>Marc A. Herpfer, Ph.D., SME President</b>
1:15 PM	<b>BREAK</b>	
1:30 PM	<b>Technical Session 3: HEALTH AND SAFETY</b>	Chair: Sekhar Bhattacharyya, Ph.D., PSU
	Presentation #1: <i>NMRA 100 Years</i>	Joe Sbaffoni, JAS Consulting
	Presentation #2: <i>Building Competency in Self-Escape During Mine Emergencies in Modern Mines</i>	Sekhar Bhattacharyya, Ph.D. & Ashish Kumar, Ph.D. - PSU
	Presentation #3: <i>Lessons Learned from Near-Miss Events: Use of the Critical Decision Method to Identify Strategies to Improve Haul Truck Safety in Mining</i>	Jennica Bellanca, NIOSH

**Thursday, October 24, 2024**

7:00 AM	PCMIA BOD business meeting and breakfast	PCMIA Board Members (only)
	Registration opens	
8:00 AM	Opening session and remarks	Bob Kimutis
	<b>KEYNOTE: <i>The Road to Zero Roof Fall Fatalities</i></b>	<b>Christopher Mark, Ph.D., MSHA</b>
9:00 AM	<b>Technical Session 4: ENGINEERING PROJECTS II</b>	Chair: Donna Schmidt, SEMCO Publishing
	Presentation #1: <i>Title forthcoming</i>	Jeremiah Colling, Innovative Wireless Technologies
	Presentation #2: <i>Title forthcoming</i>	
	Presentation #3: <i>Title forthcoming</i>	
10:30 AM	<b>BREAK</b>	
10:40 AM	<b>Technical Session 5: COAL/GAS ISSUES</b>	Chair: Zoheir Khademian, NIOSH
	Presentation #1: <i>Breach gas well update</i>	Robert Kimutis and Lihong Zhou, NIOSH
	Presentation #2: <i>Title forthcoming</i>	Steven J. Schatzel, Ph.D., P.G.
	Presentation #3: <i>Title forthcoming</i>	Peter Zhang, Ph.D., P.E.
12:10 PM	<b>BREAK</b>	
12:20 PM	LUNCH	Bob Kimutis
	<b>LUNCHEON KEYNOTE: <i>Not So Fast</i></b>	<b>Jimmy A. Brock, Chairman and CEO, CONSOL Energy Inc.</b>
	PCMIA and Student Awards	Bob Kimutis
	Student Short Presentation Contest Presentations (top 3 winners)	Bob Kimutis
1:30 PM	<b>BREAK</b>	
1:40 PM	<b>Technical Session 6: CRITICAL MINERALS/SUSTAINABILITY</b>	Chair: Heather Dougherty, Ph.D., NETL
	Presentation #1: <i>Developing a Sustainable Absorption Process: Application of Modified Biochar for Critical Mineral Recovery</i>	Wycliffe Tugume, West Virginia University
	Presentation #2: <i>A Multiphysics Approach for Rare Earth Elements Quantification in Coal Wastes</i>	Yuxin Wu, Ph.D., Lawrence Berkeley National Laboratory
	Presentation #3: <i>Title Forthcoming</i>	Mohammad Rezaee, Ph.D., PSU
3:30 PM	<b>Reception: sponsored by CONSOL Energy</b>	
		<b>Revised 7/24/2024</b>