

2025 SME PCMIA Annual Joint Meeting Program Agenda

WEDNESDAY, OCTOBER 22, 2025

7:00 AM	Registration opens
8:00 AM	Opening session Opening keynote: Bill A Hancock, SME President
9:00 AM	SME awards
9:15 AM	Technical Session 1: Health and Safety <i>Addressing Respirable Crystalline Silica</i> Barbara J. Arnold, Ph.D., P.E., Pennsylvania State University <i>Numerical Modeling to Quantify the Efficacy of Main and Booster Fans to Alleviate the Impact of Battery Thermal Runaway in Underground Mines</i> Khadija Omar Said, Pennsylvania State University <i>Using Lessons from Line-of-Duty Death Investigations to Address Psychological Risks After Incidents</i> Emily J. Haas, Ph.D.
10:55 AM	Technical Session 2: Engineering Projects <i>Beyond Compliance: The Power of Wireless Atmospheric Monitoring in Mine Fire Recovery</i> Chad Barnett, Innovative Wireless Technologies <i>Title forthcoming</i> Justin Thompson, Iron Senergy <i>Whole of Plant Ultra-Fine Particle Dewatering for Valorization and Dry Stacking</i> Mike Barish, Somerset International
12:20 PM	Luncheon keynote: David L. Kanagy, Executive Director & CEO, SME
1:30 PM	Technical Session 3: Mine Emergency Preparedness <i>The History of the National Mine Rescue Association: 1924-2025</i> Bill Reid, Managing Editor of CoalZoom.com <i>Leer South</i> Todd Moore, Core Natural Resources <i>Ohio County Mine Fire – January 2023</i> Jeff Maxwell, American Consolidated Natural Resources <i>WVU Emergency Preparedness</i> Joshua R. P. Brady, West Virginia University <i>Customizing Safety Training with VR Mine Rescue Training (VR-MRT)</i> Jennica Bellanca, Bio/Mechanical Engineer

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THURSDAY, OCTOBER 23, 2025

7:00 AM	Registration opens – PCMIA BOD business meeting and breakfast
8:00 AM	Opening session Opening keynote: Ashley Burke, National Mining Association
9:00 AM	Technical Session 4: Critical Minerals <i>Critical Mineral Prospectus</i> Anna K. Wendt, Ph.D., National Energy Technology Laboratory <i>Critical Minerals in Acid Mine Drainage</i> Fan Shi, Ph.D., National Energy Technology Laboratory <i>Core Characterization: Computer Tomography, Geochemical and Core Petrophysical Workflows for Emerging Critical Mineral Plays</i> Dustin Crandall, National Energy Technology Laboratory
10:40 AM	Technical Session 5: Ethics <i>Title forthcoming</i> Gary Hartsog, Alpha Engineering <i>Professional Engineering Board's Viewpoint on Ethics</i> Robert P. Kudlawiec, P.E., SME-RM, CMSP <i>Title forthcoming</i> Brandon Coneby, Peacock Keller
12:20 PM	Luncheon keynote: Steven J. Schafrik, Ph.D., University of Kentucky PCMIA and student awards Student short presentation contest winners
1:40 PM	Technical Session 6: Innovation and Technology <i>Methane Mitigation from Coal Mines</i> Ben Apple, Environmental Commodities Corporation <i>Smarter Mines Move Faster with Data That Works as Hard as You Do</i> Nathan Miller, Innovative Wireless Technologies <i>Open-Source AI and Time-Series Data for Mining Operations: Overcoming Challenges with Gamification and Data</i> Sean Dessureault, Dr Data Mining
3:30 PM	Reception sponsored by Core Natural Resources