

35th Annual

Kentucky Professional Engineers in Mining Seminar



In-Person & Virtual
Friday, August 19, 2022
Marriott Griffin Gate Hotel
Lexington, KY

Sponsored by
KY Professional Engineers in Mining (PEM)
UK Department of Mining Engineering
SME-Central Appalachian Section (SME/CAS)

8:00 a.m.	Seminar Introduction Don Arrowsmith, PEM Chairman, Transitional Management Associates Zach Agioutantis, Chairman, UK Department of Mining Engineering J. Steve Gardner, on behalf of SME Foundation
8:20 a.m.	Kentucky Regulatory Environmental Roundtable Gordon R. Slone, Commissioner, Department for Natural Resources Jeff O'Dell, Director, KY Reclamation Guaranty Fund Jim Ward, Director, Division of Mine Reclamation and Enforcement Justin Adams, Director, Division of Abandoned Mine Lands Tim Fugate, Director, Division of Mine Safety Wes Jones, Director, Division of Mine Permits
9:45 a.m.	A Novel Closed Loop Recovery Technology for Copper Materials as an Alternative to Smelting Josh Werner, Assistant Professor, UK Department of Mining Engineering
10:10 a.m.	Break
10:20 a.m.	Next Generation Filters for Mining Machines and Environments Steven Schafrik, Associate Professor, UK Department of Mining Engineering
10:45 a.m.	Understanding and Tracking Respirable Dust Sources in Underground Coal Mines August Greth, PhD Candidate, Virginia Tech Mining & Minerals Engineering
11:10 a.m.	The Life Cycle of an Impoundment J. Steve Gardner, P.E. & Charles Bishop, P.E.
11:35 a.m.	Recent Pillar Collapse Occurrences and Current Initiatives Greg Rumbaugh, Supervisory Engineer, MSHA, Pittsburgh, PA
12:00 p.m.	Lunch
1:00 p.m.	Autonomous Mapping of Abandoned Underground Mines with UAVs Richard E. Bishop, Professor of Practice, Virginia Tech Mining & Minerals Engineering
1:25 p.m.	Reserve and Resource Reporting in the United States Scott Peterson, Sr. Principal Geologist, Marshall Miller & Associates, Inc.

1:50 p.m.	Testifying as an Expert Witness Dana Howard, Partner, Stoll Keenon Ogden, PLLC
2:15 p.m.	Engineering Ethics John Feddock, P.E, Associate, Marshall Miller & Associates, Inc.
2:40 pm	Break
2:50 pm	Why Your Quarry Matters Morgan Lane, P.E., MBA, RESPEC, Inc.
3:15 pm	Case Study: Blasting with Air Decks to Maintain Performance While Saving Costs Brian Lewis, Sr. Drill and Blast Specialist, RESPEC, Inc.
3:40 pm	Case Studies Related to Deep Cut Continuous Mining and Large Underground Stone Mines Todor Petrov, PhD, Turbulence Analytics, LLC
4:20 pm	Case Study: Carlson C-ALS Survey of Historic Underground Mine Workings Gavin Franklyne, P. Eng. and John Malki, Carlson Software

