



# The 1st International Symposium on Mine Dust and Aerosol Research



PennState  
College of Earth  
and Mineral Sciences

**Date:** Nov 15-16, 2021

**Location:** Virtual ( Penn State University, USA)  
In-person (Qingdao, China)

**Registration and abstract submission:**  
[www.ismdar.com](http://www.ismdar.com)

**Contact:**  
**Shimin Liu**  
224 Hosler Building  
Pennsylvania State  
University  
University Park, PA  
16802  
**Phone:**  
1(814) 863-4491  
**Email:**  
szl3@psu.edu

**Call for abstract:** Newly emerged and advanced technologies have been widely researched to investigate, monitor, identify, characterize, and capture the dust from large-scale dispersion to invisible nano-scale transmission. Advanced and effective mine dust control technologies are expected to be consistent with the fundamental dust-lung interaction processes that potentially lead to miners' disability. Mine dust research, understood from nanoscale upward, covers a wide range of topics including: **(1) multiscale mine dust characterization; (2) control of dust generation; (3) dust toxicity and dust-lung interactions; (4) dilution, dispersion and collection of dust in the in situ mine environment; (5) intrinsic relationship of geology, hydrology, and mining technology to dust generation and transport; (6) and mine equipment emitted particulates, diesel particulates and others.**

**Roundtable Stakeholder Discussion Invitation:** In line with the ISMDAR theme, there will be increased attention in the mining industry and government agencies on reducing and ultimately eliminating dust related miners' respiratory diseases. All participants of the round table discussion will have opportunities to ask questions and provide input. There will be a shared summary of the points raised at the conclusion of the discussion. We will hold the roundtable at 3:30 pm (EST) on Nov 16 at Pennsylvania State University (University Park). We encourage participants to join us in-person, but there will be a virtual option.

## Invited Speakers

<b>Nikky LaBranche</b> 	<b>Weimin Cheng</b> 	<b>Pedram Rhonchi</b> 	<b>Liang Yuan</b> 	<b>Emily Sarver</b> 	<b>Shimin Liu</b> 	<b>Randy Reed</b> 	<b>Fubao Zhou</b> 	<b>Yi Luo</b> 	<b>Guang Xu</b> 	<b>And More...</b>
Researcher, University of Queensland	Professor, Shandong University of Science and Technology	Assistant Professor, New Mexico Tech University	Academician of Chinese Academy of Engineering	Associate Professor, Virginia Tech	Associate Professor, Penn State University	Research mining engineer, Pittsburg, NIOSH	Professor, China University of Mining and Technology	Associate Professor, West Virginia University	Associate professor, Missouri University of Science and Technology	