

# Rock Dust Partnership Meeting

Pittsburgh Mining Research Divison

September 30, 2020



# Welcome and Introductory Comments

- Dr. Jessica Kogel, Acting Director, PMRD/Associate Director for Mining, NIOSH
- Mr. Bill Francart, Mine Safety and Health Administration
- Mr. Tom Harman, National Mining Association
- Ms. Emily Coyner, National Stone, Sand, and Gravel Association
- Mr. Mark Ellis, Industrial Minerals Association – North America
- Mr. Josh Roberts/Mr. Ron Bowersox, United Mine Workers of America
- Mr. Hunter Prillaman, National Lime Association

# NIOSH collaboration with the Rock Dust Partnership

- MSHA
- NIOSH
- National Mining Association (NMA)
- Industrial Minerals Association – North America (IMA-NA)
- National Stone, Sand, and Gravel Association (NSSGA)
- National Lime Association (NLA)
- United Mine Workers of America (UMWA)
- Bituminous Coal Operators Association (BCOA)
- 9 meetings: 2011–2018, 2020

# Partnership Support and Involvement

- In-mine assessments of rock dust
  - Respirable dust levels generated during application
  - Treated vs non-treated
  - Effects on CPDM
- Potential health effects – NIOSH/HELD
  - Respirable quartz levels
  - Toxicological effects
- Polish Central Mining Institute
  - Large scale testing of treated vs non-treated rock dusts
  - 2017 and 2018/2019
- Foamed rock dust
  - Improve formulations and consistency
  - Recover dispersibility when dried
  - Large-scale testing of foamed rock dust vs slurry
  - 2019 and 2020



# Review of Action Items – 2018 Meeting

- Large-scale testing at Central Mining Institute
  - Conduct layered dust testing – complete
  - Report in internal review
- Foamed rock dust
  - Improve application methodologies – preliminary assessments complete
  - Develop protocol to assess foamed rock dust at CMI – complete
  - Testing complete – complete
- Rock dust dispersibility
  - Meet with appropriate NIOSH committee and discuss requirements to develop standardized method for assessing rock dust dispersibility in underground coal mines – complete



Agenda	Topic/Title	Presenter/Facilitator
8:30 AM – 8:40 AM	Welcome	Dr. Jessica Kogel, NIOSH
8:40 AM – 8:50 AM	Opening Comments	Bill Francart, MSHA; Tom Harman, NMA; Emily Coyner, NSSGA; Mark Ellis, IMA-NA; Josh Roberts/Ron Bowersox, UMWA; Hunter Prillaman, NLA
8:50 AM – 9:00 AM	Introduction	Dr. Gerrit V.R. Goodman, NIOSH
9:00 AM – 9:30 AM	A Review of Past NIOSH Rock Dust Research and Accomplishments	Marcia Harris, NIOSH
9:30 AM – 10:00 AM	Large-Scale Test Results: Treated/Non-treated Rock Dusts	Dr. Eranda Perera, NIOSH
10:00 AM – 10:40 AM	Large-Scale Test Results: Foamed Rock Dust	Connor Brown, NIOSH
10:40 AM – 10:50 AM	Break	
10:50 AM – 11:00 AM	Status of Dispersion Chamber as a NIOSH Method	Dr. Eranda Perera, NIOSH
11:00 AM - 11:15 AM	Underground Test Facilities	Dr. Gerrit V.R. Goodman, NIOSH
11:15 AM – 11:20 AM	Discussion and Next Steps	NIOSH Staff
11:20 AM – 11:30 AM	Concluding Comments	Dr. Jessica Kogel, NIOSH