

Dr. Hugh B. Miller

- Associate Professor
Mining Engineering Department
Colorado School of Mines
- Previous to CSM:
 - Animas Resources
 - Board of Directors & Audit Committee Member
 - Society of Mining, Metallurgy & Exploration
 - Board of Directors
 - University of Arizona
 - Assistant Professor
 - Director, San Xavier Mining Laboratory
 - Co-Director, International Center for Mine Health, Safety & Environment
 - IET Engineering Inc.
 - Director of Operations
- Degrees:
 - BS, MS, PhD - Colorado School of Mines



Hugh B. Miller: Teaching and Research

Academic Activities:

- CSM Courses:
 - MNGN 210 “Introduction to Mining”
 - MNGN 308 “Mine Safety”
 - MNGN 427 “Mine Valuation”
 - MNGN 428 “Senior Design I”
 - MNGN 429 “Senior Design II”
 - MNGN 598 “Small Mine Development”
- Education Innovation:
 - Chair: SME Educational Sustainability Com.
 - New course development in Sustainable Development & Safety Risk Management
 - Collaborative industry participation with Rio Tinto, Freeport-McMoRan & SME
 - Collaborative activities with the University of Arizona & University of British Columbia

Research Activities:

- Research Interests:

Applied, specialized areas that include:

 - Mine operations
 - International capacity building
 - Occupational safety and health
 - Excavation engineering/systems
 - Hydraulic mining and dredging
 - Waterjet technology

Hugh B. Miller: Current Research Projects

- Western Mining Safety Program
 - Funded by: CDC NIOSH
 - Co-PIs: Hugh B. Miller & Janet Torma-Krajewski
- Cooperative Activities in Natural Resources and Mining Sectors in Afghanistan
 - Funded by: USGS International Program
 - PI: Hugh B. Miller
- The Development of a Remote-Controlled Waterjet Slotting System for Underground Stoping
 - Funded by: Newmont USA (CIERSE)
 - PI: Hugh B. Miller; Co-PIs: Brian Asbury & Larry Clark

Western Mining Safety Program

Project Objectives:

- The project objectives are to improve the health and safety of mine workers in the Western U.S. by identifying training needs and educational deficiencies and providing innovative and effective training activities to address these needs.

Funded by: CDC/NIOSH

Funded Period: 9/2014 - 8/2017

Principal Investigators:

Dr. Janet Torma-Krajewski

Dr. Hugh B. Miller



Cooperative Activities in Natural Resources and Mining Sectors in Afghanistan

Project Objectives:

- The primary objectives are to facilitate greater internal technical capacity of Afghan governmental agencies and universities as it pertains to mineral resource exploration and development.
- This effort is part of the USGS's on-going program to construct a mineral inventory of the country and the DOD's Economic Task Force mission to advance specific deposits for possible foreign investment to encourage infrastructure development and job creation.

Funded by: USGS



Funded Period: 10/2012 - 10/2014

Principal Investigator:

Dr. Hugh B. Miller



The Development of a Remote Controlled Waterjet Slotting System for Underground Stopping

Project Objectives:

- The overall objective of this research is to develop a prototype waterjet system as a viable alternative to conventional methods for the excavation of vertical slots (free-surfaces) for underground stoping systems.



Proposed Project: Newmont

Proposed Period: 1/2015–12/2015

Principal Investigators:

Dr. Hugh B. Miller

Mr. Brian Asbury

Mr. Larry Clark

