

Dr. Andrew P. Schissler PE

- Adjunct Professor, Mining Engineering Department, Colorado School of Mines
- Also:
 - Global Lead Mining, Ausenco
 - PE Exam Coordinator, SME
 - Principal, Schissler Engineering LLC
- Previous to CSM:
 - Assistant Professor (tenure track) Penn State University 2003 to 2006
- Consulting experience in Mine Design, Rock Mechanics, Ventilation, Mine Maintenance, and Mine Improvement.
- Degrees:
 - PhD, Mining Engineering, CSM
 - MBA, Regis University
 - BS, Mining Engineering, CSM
- Licensed Professional Engineer in Colorado, Utah and QP Worldwide.



Andrew Schissler: Teaching and Research

Academic Activities:

- CSM Courses Taught (in past 13 years):
 - MNGN 316 Coal Mine Design
 - MNGN 414 Mine Plant Design
 - MNGN 599 Equipment Economics, Maintenance, Automation (Spring 2015)
- Education Innovation: New Course Development
 - EGEE 397 Penn State – Fall 2004
 - Masters of Science (Penn State, 2005): Sustainable Resource Management

Research Activities:

- Application of process improvement to mine safety, productivity, and cost control
- Beneficial disposal of mine waste, gob injection
- Rock fragmentation, mechanical mining
- Lunar mining
- Equipment instrumentation to minimize full-cycle cost

Andrew Schissler: Recent Research Projects

- **Blasting Technique to Frack Rock for Shale Oil Production**
 - Funded by: Confidential Client. 2013, \$20,000
 - PI: Andrew P. Schissler
- **Application of Business Process Improvement Tools to Improve Mine Safety, Productivity, and Cost Control**
 - Keystone is Summit on Mining Performance Conference Series
 - Occurred 2004, 2005, 2007, 2009, 2011, 2013, 2015 (planned)
 - Dr. Schissler is Co-Founder and Co-Director
 - CSM sponsored 3 times, 855 attendees, 90 papers presented
 - Raised over \$100,000 beyond expenses for research, scholarships
- **Optimization of Bit Forces for Soft Minerals**
 - Funded by: Private clients utilized CSM EMI for investigations
 - PIs: Andrew P. Schissler and Brian Ashbury

Summit on Mining Performance – Summit VI 2013 Pittsburgh

Project objectives:

- Provide forum for mines to share best practices in the application of business process improvement
- Keynotes delivered by Presidents of Arch Coal and CONSOL Gas
- 18 mine-focused papers presented
- 85 personnel attending
- Companies attending included top 5 coal, gold, and metals mining companies

Logistics by:
Penn State



Summit VII Plans:
Dec. 2015
Tucson AZ

Summit Director:
Dr. Andrew P. Schissler

