

Dr. Vilem Petr

- Research Associate Professor & Technical Director of AXPPO, Mining Engineering Department, Colorado School of Mines
- Consulting Experience:
 - Mining and geotechnical, industrial use and military use of explosives materials, and explosives effects of explosives on structures
- Degrees:
 - PhD, Colorado School of Mines
 - Post graduate research, 1997, University New Mexico
 - MS, 1996, New Mexico Institute of Mining and Technology
 - Dipl. Engineering. Technical University Ostrava, Czech Republic



Vilem Petr: Teaching and Research

Academic Activities:

- CSM Courses (in past 5 years):
 - MNGN 222 “Introduction to Explosives Engineering”
 - MNGN 333 “Explosives Engineering I”
 - MNGN 444 “Explosives Engineering II”
 - MNGN 407 “Rock Fragmentation”
- Education Innovation:
 - MNGN 598 “Experimental Methods and Instrumentation for Explosives Engineering”
 - Assisting with the development of a Graduate Explosives Engineering program in the Mining Engineering Department at CSM

Research Activities:

- Detonation Physics
- Fracture Mechanics
- New Industrial Applications

Vilem Petr: Current Research Projects

- ANFO Loading Best Practices Study
 - Funded by: Lubrizol Corporation
 - Co-PI: None
- Developing Blast Shield for Avalauncher Used by CDOT During Avalanche Control
 - Funded by: Colorado Department of Transportation (CDOT)
 - Co-PI: None

Developing Blast Shield for Avalauncher Used by CDOT During Avalanche Control

Project Objectives:

- Develop blast shield for avalanche control cures used by CDOT crews during mitigation of avalanches using compressed gas guns “Avalaunchers”



Funded by:  **COLORADO**
Department of Transportation

Funded Period: 2011 - 2015

Principal Investigator:

Dr. Vilem Petr

