Who Should Attend?

The goal of this workshop is to enable industry partners to become more familiar with the explosives engineering capabilities of the Colorado School Of Mines (CSM) and the Advanced Explosives Processing Research Group (AXPRO). Attendees of this workshop can expect to develop a partnership with CSM that will offer the opportunity for cooperative research over complementary interests. There will be short introduction lectures by CSM and industry partners, followed by an optional tour of the Explosives Research Laboratory in Idaho Springs and AXPRO blasting laboratories.
Why Should You Attend?

• Mutually Beneficial Research Partnerships

CSM and AXPRO offer the opportunity for industry-sponsored explosives engineering research projects over mutual interests.

• Recruiting Pipeline

AXPRO and the Explosives Program at CSM acts as an incubator for a new generation of engineers and provides research leadership in a broad range of science and engineering fields related to explosives engineering. Industry partners work with CSM to establish a steady pipeline of future undergraduate and graduate student leaders in explosives engineering.

• Access to State-of-the-Art Facilities

AXPRO maintains two research facilities: the Explosives Research Laboratory (ERL) in Idaho Springs, Colorado and the Small-Scale Laboratory (SSL) on the CSM Campus in Golden, Colorado. The ERL is a 2000-acre property, consisting of multiple test sites and support facilities. The primary test site maintains a permit for the detonation of up to 80-lbs of explosives per delay. The SSL consists of several laboratories on campus, and includes an indoor blasting chamber, vacuum chamber, and rock fragmentation laboratory.

• Interdisciplinary Partnerships with CSM Faculty

CSM hosts variety of subject experts in science and engineering, including: mining engineering, metallurgical and materials engineering, physics, mechanical engineering, and chemistry and chemical engineering. Industry partners are able to consult with CSM faculty over research projects and other subjects.

• Promoting and Strengthening of the Industry

Through industry-supported undergraduate projects and research partnerships, CSM and AXPRO work to strengthen and promote the explosives engineering industry, by cultivating an interest in and exposing future engineers to the field, and advancing industry research needs.

WORKSHOP SCHEDULE

8:00 - 8:30 Welcome and Introductions
8:30 - 9:00 Opening Remarks
9:00 - 10:00 Background on AXPRO and Explosives Engineering at CSM
10:00 - 11:30 Workshop Topic Discussion
Metallurgical and Materials Engineering
Mining Engineering
Physics
Mechanical Engineering
Chemistry

11:30 - 12:30 Break and Lunch
12:30 - 13:00 Travel to Idaho Springs, Colorado
13:00 - 13:30 Safety Briefing and Training
13:30 - 15:00 Tour of the ERL and Demonstration of Explosives (Avalanche Control)
15:30 - 16:00 Debriefing and Travel to Golden, Colorado

PLEASE CONTACT DR. VILEM PETR AT THE COLORADO SCHOOL OF MINES, MINING ENGINEERING DEPARTMENT FOR MORE INFORMATION.
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