Welcome to
Mining Engineering Program
Department of Energy and Mineral Engineering
The Pennsylvania State University
History

- One of the earliest engineering programs at Penn State
- Well known and established in
  - Underground coal
  - Aggregate
  - Mineral processing
Highlights of the Program

- 100% placement at Graduation
- 2nd Highest Salary in Engineering, Avg of nearly $70k/year
- Scholarships (for almost everyone)
- Job Opportunities as close as PA and as far as Australia
- Paid trips to attend professional meetings and visit mines around the world
- Activities: rescue team, mucking team, . . .
Job Opportunities in Surface Mining

- Metal
- Aggregate
- Coal
Job Opportunities in Underground Mining

- Metal
- Coal
Job opportunities also in . . .

- Mineral Processing
- Tunneling and Underground Construction
- Equipment Manufacturer
- Software Development
- Government (i.e. MSHA, DEP, NIOSH, . . . )
- Banks and Financial Institutions
- Consultation
Mining as an industry

- Projected to Grow in Energy, Metal, Industrial Minerals
- Modern, Efficient, Safe, and Environmental Friendly
- Aged workforce, need talents, more so than other industries
- About 400 new engineers needed, currently mining schools graduating about 300
- Potential for rapid promotion to managerial roles
- Much support from the industry for students
Mining as an industry

- Future Trends:
  - Remote operations / control
  - Automation / Autonomous Machines
  - Offshore Mining

- Space Mining
Student Activities

- Mine Rescue Team
- International Mining (Mucking) Competition
- Student Chapter
  - Society of Mining Engineers (SME)
  - International Society of Explosive Engineers (ISEE)
• SME meeting, Denver
• UK
• South Africa
• Peru
Join Us

- Play with big toys,
- Play with big CATS
- And have a rewarding career, visit the world, produce raw material for the modern world
We ARE Penn State
We ARE Mining

Thanks and Hope You Join Our Ranks in Mining Engineering!