

SME Mining Leadership Forum 2006

Engineering Workforce Solutions

June 25 – 27, 2006
Stein Eriksen Lodge
Park City Utah

Needs for Workforce Solutions

- World consumption of materials is increasing,
- Demand for mineral engineers and geoscientists is increasing, both in industry and in government,
- Up to 50% of the minerals engineers and geoscientists will retire in the next 5 – 10 years.

Needs for Solutions, Continued

- Mining engineering graduates are few in number and highly recruited:
 - The number of Schools and Departments has declined to 13,
 - Less than 100 students graduated nationwide in 2004,
 - Demand for graduates will be over 300 per year for the next decade.

Needs for Solutions, Continued

- Mining and Extractive Metallurgy are not obvious career choices:
 - Enrollments in university programs are still very low,
 - State funding for education is declining-- some programs are threatened with elimination,
 - 50% of mining faculty will retire in 5 to 10 years—many will not be replaced,

Workforce Forum Objectives

- **Development of a National Strategy and Action Plan:**
 - Identify critical areas for change,
 - Build a capacity in industry to sustain tomorrow's workforce,
 - Create paths forward to implement necessary changes.

Who should attend?

- **From 75 to 100 high-level industry executives and professionals:**
 - Metals, Coal and Aggregates Mining,
 - Industrial Suppliers and Engineering Firms,
 - State and federal government agencies,
 - Academic institutions,
 - SME Education Task Force Members

The SME Forum

- Opening evening reception followed by 2-day forum
- Morning and Afternoon Sessions
 - Presentations
 - Panel discussions
 - Group Feedback, Summary, Solutions

GROUP INTERACTION, PARTICIPATION,
FEEDBACK!

Opening Reception-Dinner

- Keynote address ... what are we facing in the industry today and into the future?
- Summary and Overview
 - 2-day format - program overview
 - Topics to be addressed
 - Expected work products

Topics

- **Monday Morning**
 - Will mining schools meet the workforce needs?
 - What are the workforce challenges?

Panel discussion, Group feedback,
summary, solutions

Monday - Group Lunch

- **Keynote Topic**
 - The Whole System: Health, Safety, Culture and Environment—From Discovery to Reclamation

Topics

- **Monday Afternoon**
 - The struggle from enrollment to graduation
 - Skills needed by future mining professionals
 - A view from the consumers perspective

Panel discussion, Group feedback, summary, solutions

Topics

- **Summary and Review - Day 1**
- **Tuesday Morning**
 - Industry Perspective on Best Practices for Recruitment and Retention of Young Professionals in the Mining Workforce
 - Challenges for the Recruitment and Retention Process

Panel discussion, Group feedback, summary, solutions

Tuesday Group Lunch

- Reinventing the Mining Industry: Where Is The Mining Industry Revolution?

Paths Forward

- Tuesday Afternoon
 - Wrap-Up Moderated Session: Action Plan Development
 - Group participatory session
 - Long-term strategic plan development
 - Paths Forward with Champions
- Concluding Dinner

