Presentation to the CSM Alumni Association
February 8, 2013
Focused Role and Mission

§ 23-41-105 C.R.S

- “The school of mines shall be a specialized baccalaureate and graduate research institution with high admission standards.”

- “The Colorado school of mines shall have a unique mission in energy, mineral, and material science and engineering and associated engineering and science fields.”

- “The school shall be the primary institution of higher education offering energy, mineral, and material science and mineral engineering degrees at both the graduate and undergraduate levels.”

<table>
<thead>
<tr>
<th>Research Universities</th>
<th>BA/BS Total</th>
<th>% STEM</th>
<th>US News Ranking</th>
<th>Grad Rate</th>
<th>Carnegie Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polytechnic (NYU)</td>
<td>308</td>
<td>98.1%</td>
<td>138</td>
<td>53</td>
<td>High Res.</td>
</tr>
<tr>
<td>Cal Tech</td>
<td>192</td>
<td>97.9%</td>
<td>2</td>
<td>88</td>
<td>Very High Res.</td>
</tr>
<tr>
<td>MINES</td>
<td>667</td>
<td>96.6%</td>
<td>75</td>
<td>68</td>
<td>High Res.</td>
</tr>
<tr>
<td>Worcester Polytechnic</td>
<td>720</td>
<td>87.8%</td>
<td>62</td>
<td>79</td>
<td>Doctoral Res.</td>
</tr>
<tr>
<td>Stevens Institute</td>
<td>414</td>
<td>82.4%</td>
<td>88</td>
<td>79</td>
<td>High Res.</td>
</tr>
<tr>
<td>MIT</td>
<td>1116</td>
<td>82.1%</td>
<td>5</td>
<td>94</td>
<td>Very High Res.</td>
</tr>
<tr>
<td>Rensselaer (RPI)</td>
<td>1265</td>
<td>79.8%</td>
<td>50</td>
<td>83</td>
<td>Very High Res.</td>
</tr>
<tr>
<td>Michigan Tech</td>
<td>1149</td>
<td>79.0%</td>
<td>115</td>
<td>64</td>
<td>High Res.</td>
</tr>
<tr>
<td>New Jersey Inst Of Tech</td>
<td>905</td>
<td>77.5%</td>
<td>138</td>
<td>55</td>
<td>High Res.</td>
</tr>
<tr>
<td>Clarkson</td>
<td>554</td>
<td>72.2%</td>
<td>119</td>
<td>70</td>
<td>High Res.</td>
</tr>
<tr>
<td>Georgia Tech</td>
<td>2842</td>
<td>71.0%</td>
<td>36</td>
<td>77</td>
<td>Very High Res.</td>
</tr>
<tr>
<td>Illinois Inst of Tech</td>
<td>523</td>
<td>69.2%</td>
<td>111</td>
<td>64</td>
<td>High Res.</td>
</tr>
<tr>
<td>Florida Inst of Tech</td>
<td>524</td>
<td>63.9%</td>
<td>164</td>
<td>59</td>
<td>Doctoral Res.</td>
</tr>
</tbody>
</table>

**Other Institutions (CCHE Peers)**
- S Dakota Mines & Tech   | 270 | 91.5% | n/a | 36  | Special Focus |
- Missouri Science & Tech | 997 | 89.2% | n/a | 62  | Special Focus |
- N Mexico Mining & Tech  | 196 | 87.2% | n/a | 48  | Masters       |

Strategic Objectives

- Enhance distinction of baccalaureate programs.
  - Increase retention and graduation rates.

- Grow research and increase reputation as premier global research university.
  - New faculty hiring focused in key interdisciplinary clusters.

- Expand campus infrastructure.
  - Since 2009, over $140 million in projects funded largely by students and donors, with $60 million in capital projects in progress.

- Transform residential learning community.
  - Developing the Global Engineer.
65% total growth in decade.

- Class of 2016 is largest freshman class and highest quality class in history, with largest # of women & under-represented students.

24th in nation for # of bachelor’s degrees awarded in engineering.

Largest Society of Women Engineers Collegiate Chapter in Nation.
Results: Student Success

- Freshman retention rate: 89% in 2011 cohort vs. 85% in 2007.

- 6-year graduation rate 67%/72% last two years.

Dec 2011 - August 2012 Student Outcomes

- 90% employed or in graduate school.
- $66,032 average starting salary.
- 91% of accepted positions by BS graduates are with organizations recruiting through Mines Career Center.
- 76% graduating with reported internship experience.

- 5 of 6 Fall 2012 varsity teams participated in NCAA championship playoffs. All five teams finished in top 25 in nation.

- Mines Graduate Student Association recognized as National Member of the Year.
Results: National Reputation

- *Bloomberg Businessweek* declared Mines as the “biggest bargain” in the list of colleges and universities that “pack a return on investment punch”

- *U.S. News and World Report* ranks Mines as the #1 public university in Colorado and 75th nationally, inc public and private universities

- *Payscale.com* ranked Mines as the top U.S. public university for starting salaries

- *Kiplinger’s Personal Finance* magazine recognized Mines as one of the Best Values in Public Colleges for 2012, the best value in Colorado
Results: Growth in Research

Faculty Expertise & Research Relevant to Colorado.

- Over 40% of research sponsored by industry or non-government organization.
- Unconventional oil and gas.
- Renewable Energy Materials
- Urban Water Systems: NSF Engineering Research Center
- Smart Geo-Construction and Geo-Remediation
- CMI Research Hub

*FY13 actual is $44M to date, estimated $60-65M for the year
Results: Capital Projects

- Projects recently completed
  - Brown Hall addition (Engineering)- 2011
  - Maple Hall (Residence Hall)- 2012
  - Maple Pedestrian Plaza- 2011
  - Marquez Hall (Petroleum Engineering and general classroom wing)- 2012
  - Weaver Tower Renovation (Residence Hall)- 2012
  - Wright Student Wellness Center- 2012

- Projects in planning phase
  - Residence Hall/Campus Dining Facility
  - Clear Creek Athletics Complex
  - Academic Teaching and Laboratory Facility