Dean’s Report

Engineering Advisory Council
Resource Development Committee

Presentation on 4/16/04 by
Robert H. Davis, Dean, College of Engineering and Applied Science
Frank Barnes (ECE) – NAE Gordon Prize
Kristi Anseth (ChBE) – NSF Waterman Award
George Born (AES) – National Academy of Engineering
Kaspar Willam (CEAE) – National Academy of Engineering

NSF Career Awards:
  John Crimaldi (CEAE)
  Kurt Maute (AES)
  Will Medlin (ChBE)
  Regan Zane (ECE)
Student Awards and Highlights

Mathematical Contest in Modeling – Outstanding Winners
♦ Brad Klingenberg (AM), Paascal Getreuer (AM) and Brian Camley (Math & Phys)
♦ Moorea Brega (AM), Corry Lee (AM & Eng Phys) and Alejandro Contarero (AM, ECE & CS)

National Collegiate Inventors and Innovators Alliance
♦ Ben Rushwald (ME) and Jeff Giffin (IS) “Rota-Ride” snowboard binding

Colorado Engineer Magazine
♦ Magazine of the Year (2003 and 2004)
♦ 100th anniversary celebration

Engineers Without Borders
♦ Muramba, Rwanda – water system
New Faculty and Staff

Dennis Akos – Assistant Professor, AES
Wayne Kirschling – Interim Faculty Director, Engineering Management
Terry Mayes – Director Academic Programs and Assessment
Anne McCarthy – IT Professional
Robin Sandekin – Engineering for Developing Communities
♦ 13 active searches

♦ 48 finalists for interviews:
  10 women (21%)
  16 persons of color (33%)

♦ 5 outstanding offers:
  2 women (40%)
  2 persons of color (40%)

♦ 2 hires made for Fall 2004:
  2 women (100%)
  0 persons of color (0%)
<table>
<thead>
<tr>
<th>College Overall (Publics)</th>
<th>April 2003</th>
<th>April 2004</th>
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<tbody>
<tr>
<td>Aerospace</td>
<td>37 (21)</td>
<td>33 (19)</td>
</tr>
<tr>
<td>Chemical</td>
<td>19 (14)</td>
<td>12 (5)</td>
</tr>
<tr>
<td>Civil</td>
<td>17 (11)</td>
<td>20 (11)</td>
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Marketing Efforts

♦ Annual Publications
  – CUEngineering (late spring)
  – Alumni Focus (fall)
  – Corporate Partner (early spring)

♦ New Marketing Initiatives
  – Undergraduate brochure and poster
  – Flier and letter to admitted students
  – Flier and letter to engineering deans
  – Redesigned website: www.colorado.edu/engineering
Undergraduate Recruitment

♦ Enhanced marketing

♦ Personal efforts
  - High school teachers and counselors
  - Communication with admitted students

♦ Diversity enrollments

<table>
<thead>
<tr>
<th></th>
<th>Fall 2002</th>
<th>Fall 2003</th>
<th>Fall 2004*</th>
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<tbody>
<tr>
<td># new freshmen</td>
<td>612</td>
<td>560</td>
<td>548</td>
</tr>
<tr>
<td>% female</td>
<td>18.8%</td>
<td>14.1%</td>
<td>18.6%</td>
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<tr>
<td>% underrep. min.</td>
<td>9.2%</td>
<td>5.7%</td>
<td>6.6%</td>
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<tr>
<td>% non-resident</td>
<td>32.8%</td>
<td>32.1%</td>
<td>32.8%</td>
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*as of 4/11/04
♦ **State Funding Cut to CU-Boulder**

$85\text{ M FY03} \rightarrow $58\text{ M FY04}

10.5\% of state budget in FY04 vs. 20.3\% in FY90

$3.96\text{ per $1000 income ranks CO 48th in U.S. ($6.80 average)}$

♦ **Increased Tuition and Fee Revenue**

$229\text{ M FY03} \rightarrow $252\text{ M FY04}$

$4020/\text{yr resident third lowest in AAU ($5848 average)}$

♦ **FY03 Expenditure of $74\text{ M in College}**

- Contracts & Grants 50\%
- Tuition & Fees 25\%
- Gifts 8\%
- Renewal & Auxiliary 5\%
- Indirect 4\%
- State 8\%
 ♦ **TABOR and K-12 Amendments**

 ♦ **Current Budget Model FY05**
  0% increase in state funding
  1.1% increase in tuition
  $16 M projected shortfall CU-Boulder

 ♦ **College Opportunities Fund (COF)**
  Vouchers
  Enterprise status

 ♦ **Improved Funding Model if (COF) Passes**
  0% increase in state funding
  8% increase in resident tuition (4% nonresident)
  $7 M projected shortfall CU-Boulder

 ♦ **Capital Fee, Quality for Colorado, Differential Tuition**
Infrastructural Improvements

- Exabyte Building
- Nanotechnology Laboratory
- High-Performance Computing Lab
- Engineering Center Beautification and Renovation
- Expansion
  - $400-500 per sq. ft. on campus
  - $300-350 per sq. ft. off campus
  - $15 M for 31,000 sq. ft. CS pop-top
♦ Strategic Plan (completed 12/03)
♦ Earn-Learn Apprenticeships
♦ Discovery Learning Apprenticeships
♦ International Engineering
♦ Centers: Cybersecurity, Unmanned Vehicles, Transportation
♦ Campus Initiatives: Biotechnology, Nanotechnology