College Update

The College is doing well!

- Enrollments are increasing
- Student quality and diversity are up
- Grant support is (way) up
- Faculty are winning honors

... despite budget cuts

Presentation to CU Engineering Advisory Council on 10/30/09 by Robert H. Davis, Dean, CU College of Engineering & Applied Science
## Undergraduate Enrollments

<table>
<thead>
<tr>
<th>Year (Fall)</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td># applied</td>
<td>2630</td>
<td>2599</td>
<td>2474</td>
<td>2679</td>
<td>3206</td>
<td>3726</td>
<td>3438</td>
</tr>
<tr>
<td>% admitted</td>
<td>73%</td>
<td>75%</td>
<td>72%</td>
<td>67%</td>
<td>64%</td>
<td>59%</td>
<td>62%</td>
</tr>
<tr>
<td># new enrolled</td>
<td>610</td>
<td>633</td>
<td>669</td>
<td>654</td>
<td>731</td>
<td>758</td>
<td>702</td>
</tr>
<tr>
<td>% women</td>
<td>14%</td>
<td>17%</td>
<td>18%</td>
<td>18%</td>
<td>22%</td>
<td>20%</td>
<td>25%</td>
</tr>
<tr>
<td>% URM</td>
<td>5.7%</td>
<td>7.2%</td>
<td>9.0%</td>
<td>7.5%</td>
<td>9.0%</td>
<td>7.1%</td>
<td>9.3%</td>
</tr>
<tr>
<td>Avg HS gpa</td>
<td>3.69</td>
<td>3.72</td>
<td>3.71</td>
<td>3.76</td>
<td>3.79</td>
<td>3.79</td>
<td>3.82</td>
</tr>
<tr>
<td>Avg ACT Comp.</td>
<td>27.3</td>
<td>27.5</td>
<td>27.3</td>
<td>27.8</td>
<td>28.0</td>
<td>28.3</td>
<td>28.9</td>
</tr>
<tr>
<td>Tot. enrolled</td>
<td>2667</td>
<td>2736</td>
<td>2739</td>
<td>2755</td>
<td>2914</td>
<td>3022</td>
<td>3064</td>
</tr>
<tr>
<td>% women</td>
<td>18%</td>
<td>17%</td>
<td>17%</td>
<td>18%</td>
<td>19%</td>
<td>20%</td>
<td>21%</td>
</tr>
<tr>
<td>% URM</td>
<td>7.3%</td>
<td>7.1%</td>
<td>7.3%</td>
<td>7.4%</td>
<td>7.6%</td>
<td>8.0%</td>
<td>7.9%</td>
</tr>
</tbody>
</table>

**Success**: Honors, GoldShirt, and more!
### Graduate Enrollments

<table>
<thead>
<tr>
<th>Year (Fall)</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td># applied</td>
<td>2087</td>
<td>1666</td>
<td>1358</td>
<td>1477</td>
<td>1681</td>
<td>1728</td>
<td>1886</td>
</tr>
<tr>
<td>% admitted</td>
<td>55%</td>
<td>56%</td>
<td>62%</td>
<td>61%</td>
<td>58%</td>
<td>55%</td>
<td>56%</td>
</tr>
<tr>
<td># new enrolled</td>
<td>269</td>
<td>240</td>
<td>221</td>
<td>242</td>
<td>247</td>
<td>241</td>
<td>316</td>
</tr>
<tr>
<td>Avg. Q. GRE</td>
<td>753</td>
<td>757</td>
<td>744</td>
<td>756</td>
<td>758</td>
<td>754</td>
<td>751</td>
</tr>
<tr>
<td>Reg. MS stud.</td>
<td>461</td>
<td>461</td>
<td>399</td>
<td>388</td>
<td>382</td>
<td>370</td>
<td>444</td>
</tr>
<tr>
<td>Reg. PhD stud.</td>
<td>485</td>
<td>500</td>
<td>491</td>
<td>488</td>
<td>493</td>
<td>533</td>
<td>589</td>
</tr>
<tr>
<td>% women</td>
<td>24%</td>
<td>22%</td>
<td>23%</td>
<td>24%</td>
<td>24%</td>
<td>23%</td>
<td>22%</td>
</tr>
<tr>
<td>% URM</td>
<td>5.0%</td>
<td>5.6%</td>
<td>4.4%</td>
<td>5.4%</td>
<td>5.0%</td>
<td>5.0%</td>
<td>4.6%</td>
</tr>
<tr>
<td>% foreign</td>
<td>35%</td>
<td>30%</td>
<td>28%</td>
<td>31%</td>
<td>29%</td>
<td>31%</td>
<td>31%</td>
</tr>
<tr>
<td>Prof. MS stud.</td>
<td>383</td>
<td>281</td>
<td>244</td>
<td>283</td>
<td>331</td>
<td>330</td>
<td>330</td>
</tr>
</tbody>
</table>

**Success:** Fellowships, Assistantships, and more!
Contract & Grant Awards

FY09:
- AES: 11.3M
- ChBE: 14.8M
- CEAE: 7.6M
- CS: 6.3M
- ECE: 8.6M
- ME: 8.2M
- Other: 1.0M
- Total: 57.7M

16.3M NSF, 10.0M Ind., 6.4M NASA, 6.3M DoD, 4.0M HHS, 3.8M DOE
New Tenure-line Faculty

Aerospace
Alireza Doostan, Asst. Prof. (1/10)
Ken Jansen, Prof. (1/10)
Zoltan Sternovsky, Asst. Prof. (8/09)

Civ/Env/Arch
Amy Javernick Will, Asst. Prof. (1/10)

Comp. Sci.
Nikolaus Correl, Asst. Prof. (8/09)
Sriram Sankaranarayanan, Asst. Prof. (8/09)

Elect/Comp/Energy
Juliet Gopinath, Asst. Prof. (8/09)
Shannon Hughes, Asst. Prof. (8/09)
Jason Marden, Asst. Prof. (1/10)
Milos Popovic, Asst. Prof (1/10)

Mechanical
Todd Murray, Assoc. Prof (8/09)

4 of 11 new hires in growth positions
2009 NSF CAREER Awards

Stephanie Bryant, ChBE

Eric Frew
AES

Siva Mettu-palayam, CEAE

Jeremy Siek, ECEE

Katie Siek
CS

Ronggui Yang, ME
Named Professor & Chairs

Bernard Amadei
Mortenson Chair

Lucy Pao
Dorf Professor

Jim Voss
Roubos Chair
Selected Faculty Honors

Kristi Anseth
Elected to IOM Prof. Prog. Award AIChE

Bill Emery
Baron Award AIChE Part. Tech. Forum

Frank Barnes
50 Years on CU Faculty

Chris Bowman,

Al Weimer
Geoscience Award Int. Geosci. & Remote Sensing Soc.
FY09 Expenditures: $87M

- Grant Funds 52.2%
- State Funds 6.7%
- Tuition & Fees 28.6%
- Other/Indirect Costs From Grants 3.6%
- Gift Funds 6.0%
- Auxiliary Funds 2.9%

Res Ugrad Tuition: $8932 (+53% in 4 yrs)
Nonres Ugrad Tuition: $29,000 (+25% in 4 yrs)

State cut to campus: $86M → $64M → ??
Size: 310,000 sq ft
Location: East Campus
Cost: $170M

Occupants:
• Biotechnology Initiative
• Biochemistry
• Chem & Bio Engineering
• 60 faculty, 600 researchers

Timing Update:
• Architectural design start: Summer 2008
• Construction start: Fall 2009
• Occupancy: Fall 2011
• Two phases likely

Vision: Multidisciplinary research & education for global needs such as health & energy
Key Challenges & Opportunities

- State funding
- Facilities
- Interdisciplinary research
- Diversity
- What can we do best?
- Rankings

U.S. News Rankings Criteria:

**College Graduate Rankings:**
- 40% reputation, 27.5% student numbers & quality,
- 25% research expenditures, 7.5% NAE membership

**College Undergraduate & Department Rankings:**
- 100% reputation

6-yr grad public rankings trend: 19, 19, 22, 23, 23, 22
6-yr ugrad public trend: 18, 21, 19, 19, 20, 19
How Can the EAC Help?

• Advice – Each subcommittee consider 2 questions:
  ➢ What can we do best?
  ➢ How can we improve our reputation & rankings?

• Advocacy – Promote CU Engineering:
  ➢ Company, neighbors, state & university leaders

• Association – Personal & corporate involvement:
  ➢ Time, talent & treasure

Common vision: Enhanced reputation, rankings & resources