

Dean's Report

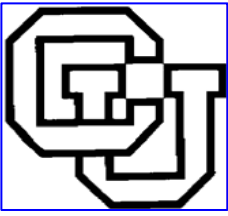


Engineering Advisory Council Resource Development Committee



Presentation on 10/24/03 by

Robert H. Davis, Dean, College of Engineering & Applied Science



Recent Highlights



◆ Awards for Top Faculty

Anseth, Axelrad, Barnes, Bielefeldt, Brown,
Frangopol, Gall, Mahajan, Willam



◆ Awards for Top Students

Math Modeling: **Darin Gilles, Aaron Windfield
and David Lindstone**

Earth Island Institute: **Andrew Azman**

Student Employee: **Jennifer Michels**

◆ International and National Conferences

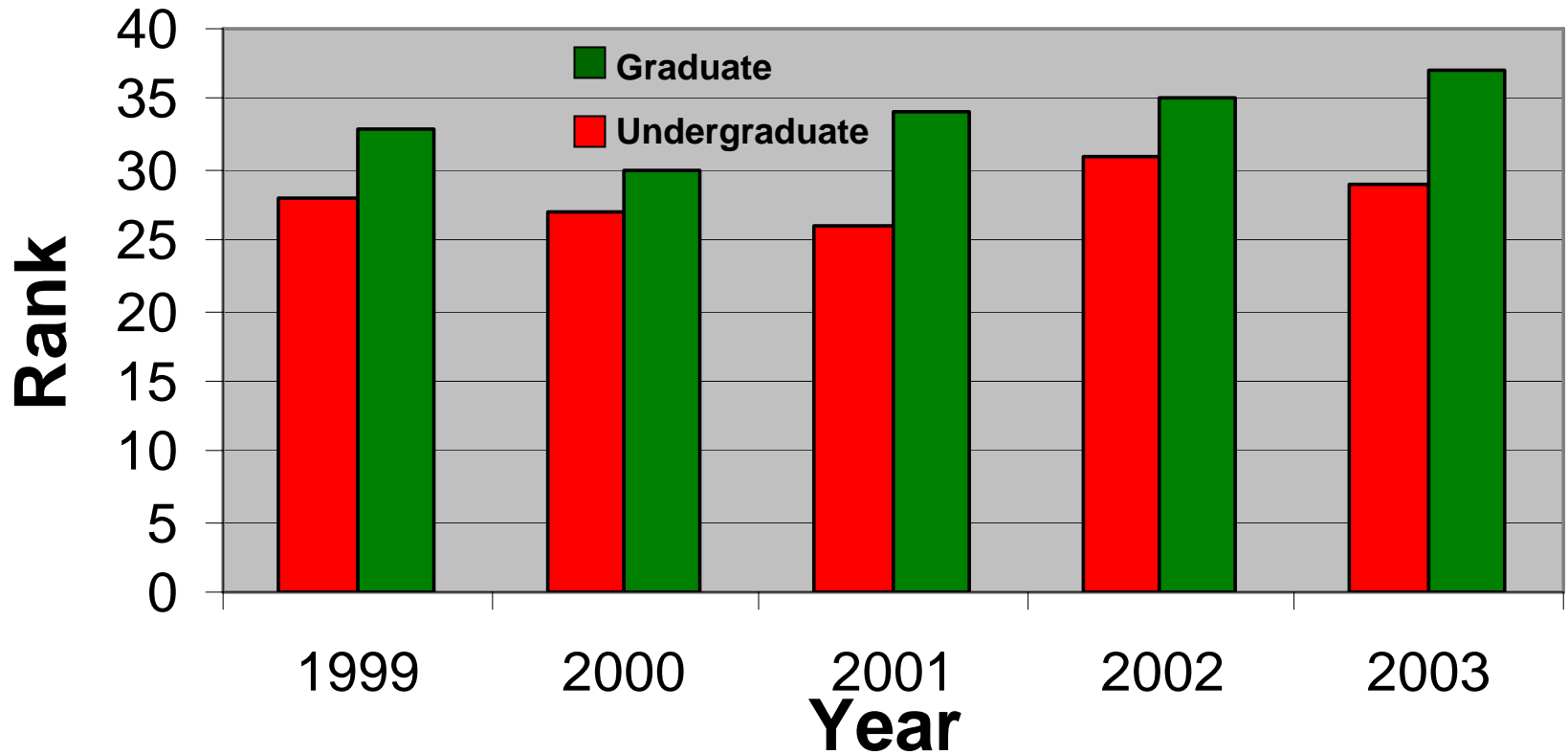
National Academy of Engineering

Sustainable Resources

Frontiers in Education

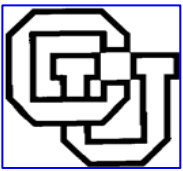


US News & World Report Engineering Rankings



Ugrad: Tied for 29th, 17th among publics

Grad: Ranked 37th, 21st among publics



Budget News



◆ State Funding Cut to CU-Boulder

\$85M FY03 → \$58 M FY04

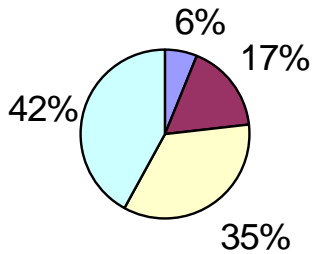
◆ Increased Tuition Revenue

\$229 M FY03 → \$252 M FY04

◆ General Fund Budget for CU-Boulder

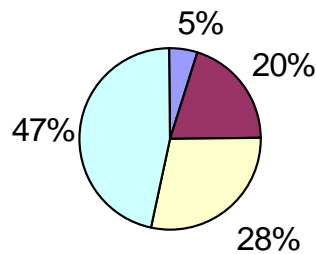
	<u>before</u>	<u>after</u>
state funding	25%	17%
tuition	63%	72%
indirect costs from grants	10%	10%
other	2%	1%

U. Washington 1990



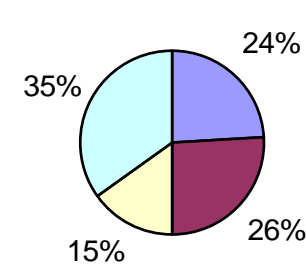
State

U. Washington 2002



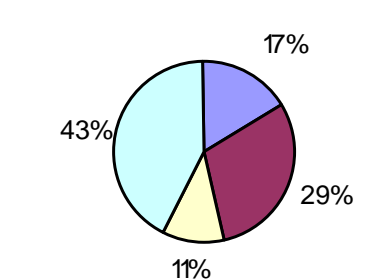
Tuition

CU-Boulder 1990



Grants

CU-Boulder 2002



Other



College Budget Cuts



Permanent Cut: \$1.5 M/yr (6% of GF)

Total 02-03 College Expenditures:

\$27 M general funds (37%)

\$37 M grant funds (50%)

\$ 6 M gift funds (8%)

\$ 4 M aux. and ren. funds (5%)

Budget Cuts



Cuts Taken:

Telecom and Engineering Management: **762 K**

Faculty lines & differentials: **435 K**

Administrative programs: **308 K**



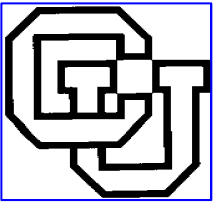
Center for Advanced Engineering and Technology Education (CAETE)



Partnering

- ◆ Partnership with Continuing Education
- ◆ Formed 1 July 2003 as an Enterprise
- ◆ Interdisciplinary Telecommunications Program
- ◆ Engineering Management
- ◆ Graduate and Distance Education (CATECS)
- ◆ Faculty Placement





Engineering Development Update

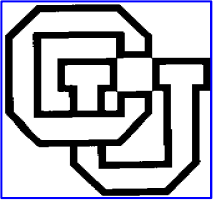


◆ FY 97-03 TLE/Beyond Boundaries Campaign

Gift Type	FY 97-03 Results	Total Campaign Goal	% Total Campaign Goal	FY 2003 Results	FY 2003 Goals	% Total FY 2003 Goals
Endowment	19.5 M	14.9 M	131%	1.3 M	3.5 M	38%
Capital	13.2 M	15.0 M	88%	1.1 M	1.5 M	72%
GIK	34.9 M	12.8 M	273%	5.4 M	2.0 M	270%
Current	16.1 M	11.4 M	141%	1.5 M	3.0 M	50%
TOTAL GOAL	83.8 M	54.1 M	155%	9.3 M	10.0 M	93%

◆ **Dean's Fund: 390 K FY99 → 230 K FY 03**

◆ **Personnel**



Discovery Learning Center Update



◆ **Total Cost:** \$18.3 M

◆ **Total Raised:** \$16.5 M

State: \$7.8 M

Private: \$7.1 M

College: \$1.6 M



◆ **Vision**

- New learning paradigm
- Vertically and horizontally integrated research

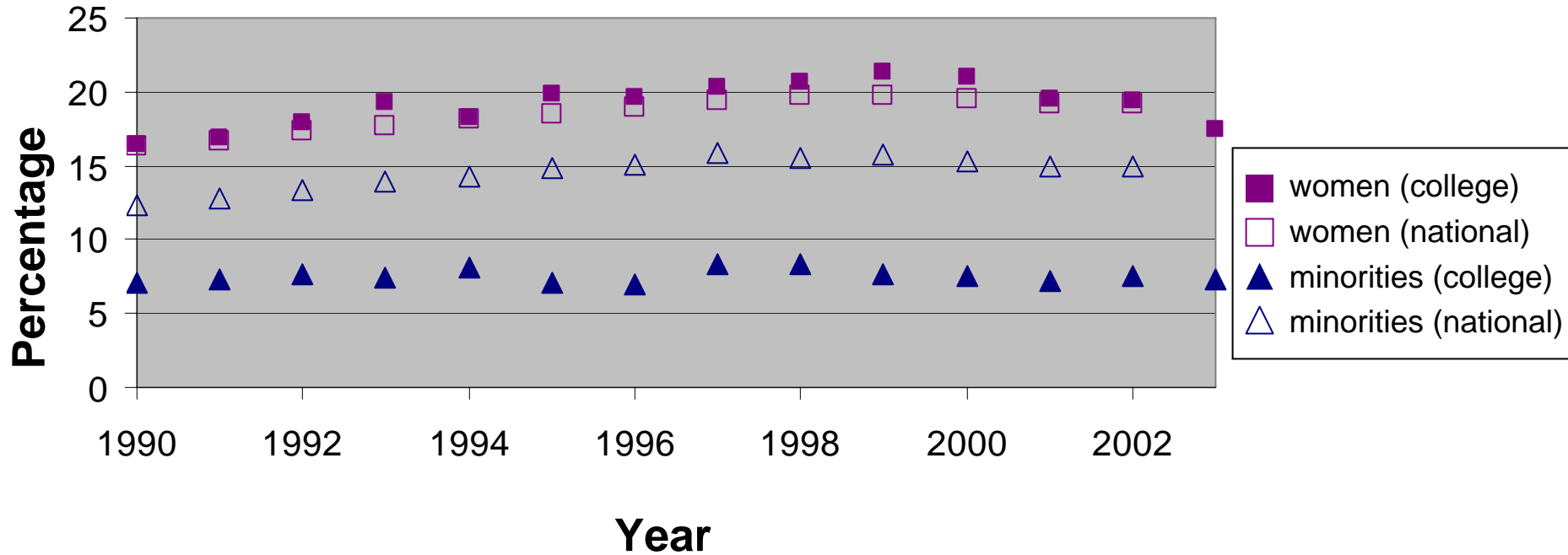
◆ **Progress To-Date**

◆ **Discovery Learning Apprenticeships**





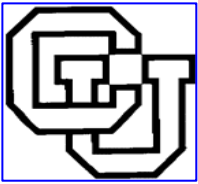
Women & Minority Enrollments



◆ Improved retention via First-Year Projects Course

Female: 71% (takers) vs. 56% (non-takers)

Hispanics: 77% (takers) vs. 50% (non-takers)



Freshmen Admissions Analysis



◆ Fall 2003 New Freshmen Data

	Total	Women
Offered Admission	1027	179 (17.4%)
Accepted Admission	560	79 (14.1%)
Declined Admission	467	100 (21.4%)

◆ Survey of Those Declining Admission

- Adequacy and timing of contacts
- Adequacy of financial aid

◆ Action Items Taken and Planned

- Director of Outreach and Education
- Access to admissions database
- Follow-up letters, calls, aid
- Outreach, tracking, visits



Strategic Objectives



1. Research Excellence

- ◆ *Core and emerging areas of distinction*
- ◆ *Interdisciplinary partnerships*
- ◆ *Assisting society and individuals*

2. Educational Excellence

- ◆ *Core fundamentals and character building*
- ◆ *Innovative curricula and enrichment experiences*
- ◆ *Life-long learning, service and leadership*

3. Resource Excellence

- ◆ *Outstanding faculty and staff*
- ◆ *Modern facilities for education and research*
- ◆ *Increased funding and partnerships*





Research Excellence



Selected Goals and Metrics:

- ◆ Grants and PhDs up 10% per year
- ◆ Five new interdisciplinary research centers
- ◆ Three new campus-wide initiatives



Excellence in
Research

Selected Plans and Action Items

- ◆ Submit 50% more proposals in core/emerging areas
- ◆ Provide seed funding for new centers and travel
- ◆ Form teams and plans for campus initiatives
- ◆ Hire senior or mid-career faculty in strategic areas

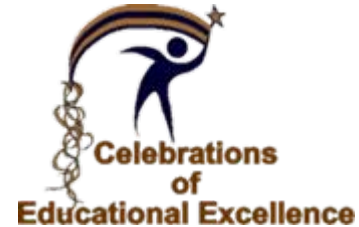


Educational Excellence



Selected Goals and Metrics:

- ◆ Improved rankings to top 10%
- ◆ Extracurricular opportunities for all students
- ◆ 100% satisfaction with student advising
- ◆ Increased diversity by 10%/year



Selected Plans and Action Items:

- ◆ Develop and employ effective marketing tools
- ◆ Establish college-wide initiatives in Discovery Learning, Service Learning, and Professional Learning
- ◆ Enhance outreach, recruitment, and advising



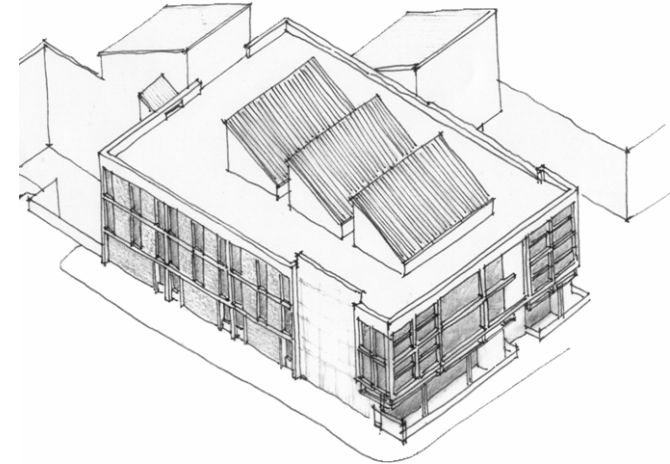


Resource Excellence



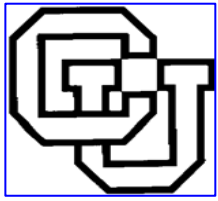
Selected Goals and Metrics:

- ◆ \$6.9 M/year new general funds for
 - faculty hiring, startup and salaries (\$3.9 M)
 - student programs and initiatives (\$1.2 M)
 - enhanced education and research facilities (\$1.8 M)
- ◆ \$12 M/year new gift funds for
 - faculty endowments (\$4 M)
 - student endowments (\$2 M)
 - capital construction (\$4 M)
 - program support (\$2 M)



Selected Plans and Action Items:

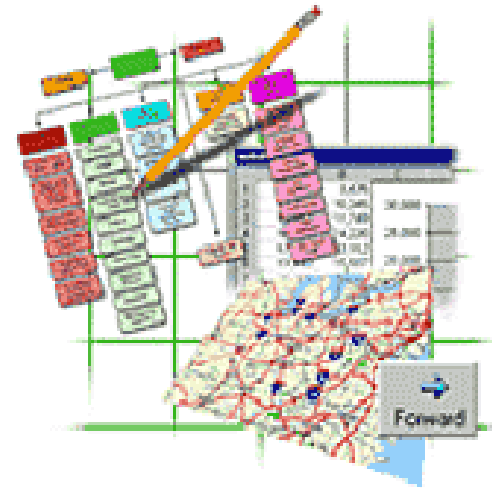
- ◆ Recruit, retain, and inspire great faculty
- ◆ Build Quality for Colorado and differential tuition/fees
- ◆ Grow private fundraising and partnerships

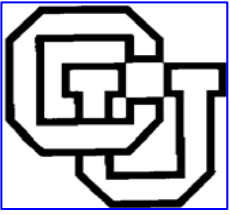


Key Strategic Planning Issues



- ◆ Student recruiting and education for a talented and diverse work force
- ◆ Using the Earn-Learn Program to enhance discovery learning and service learning
- ◆ Achieving resources for success
- ◆ Building a culture of excellence





Top Development Priorities



- ◆ **Earn-Learn Program**
- ◆ **Endowed Professorships**
- ◆ **Discovery Learning Center and Initiative**
- ◆ **Dean's Fund for Excellence**