

New Associate Deans



Charlie Seyler
Associate Dean for
Undergraduate Programs
as of 7/1/11



Alan Zehnder
Associate Dean for
Diversity
starting 1/1/12

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New Directors and Chairs



Alex Gaeta
Director, AEP
as of 7/1/11



Mark Campbell
Director, MAE
as of 7/1/11

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CoE Searches 2010-2011

Department	Searches	Status
AEP	2	2 offers accepted
BEE	0	1 offer (opportunity)
BME	1	1 offer accepted
CEE	1	No offer made
CBE	0	1 offer accepted (opportunity)
CS	3	1 offer accepted, 3 decline
EAS	0	
ECE	3	2 offers accepted, 1 decline
MSE	2	1 offer accepted
MAE	2	3 offers accepted
ORIE	2	1 offer accepted, 1 declined
Total	16	12 offers accepted, 5 declined, 1 pending

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New Faculty



Lena Fitting-Kourkoutis
Assistant Professor, AEP



Eve Donnelly
Assistant Professor, MSE



Olivier Desjardins
Assistant Professor, MAE



Eilyan Bitar
Assistant Professor, ECE



Andreea Minca
Assistant Professor, ORIE



Greg Fuchs
Assistant Professor, AEP

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New Faculty

		
Roseanna Zia Assistant Professor, CBE	Zhiru Zhang Assistant Professor, ECE	Perrine Pepiot Assistant Professor, MAE
		
David Steurer Assistant Professor, CS	Meredith Silberstein Assistant Professor, MAE	Jan Lammerding Assistant Professor, BME/ Weill Inst. for Cell and Molecular Biology

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Major Faculty Awards

- National Academy of Engineering
 - Fred Schneider
- National Academy of Sciences
 - Jon Kleinberg
- American Academy of Arts & Sciences
 - President David Skorton
- Presidential Early Career Award for Scientists and Engineers (PECASE)
 - David Erickson (MAE); John March (BEE); Amir S. Avestimehr (ECE)
- NSF CAREER Award
 - Tobias Hanrath (CBE); Cynthia Reinhart-King (BME); Richard Hennig (MSE); Robert Kleinberg (CS)

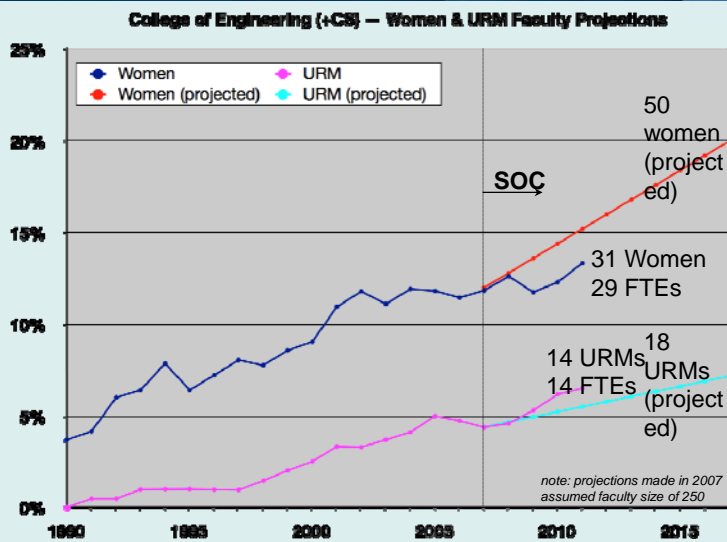
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Diversity Programs in Engineering (DPE)

- Leadership: Associate Dean for Diversity manages all T&P cases and Jr. Faculty mentoring program in the College
- All diversity programs (undergrad, grad, faculty) housed under a single roof
- Key Partners across University (e.g., CU-ADVANCE, University Student Programs)
- Entrepreneurial
 - DPE raises \$200,000 – \$400,000/year in NSF grants, foundation awards, corporate gifts in support of DPE programs and manages ~\$1 million/year in minority graduate fellowships

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Women & URM Faculty



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How did we get here? Recruiting!

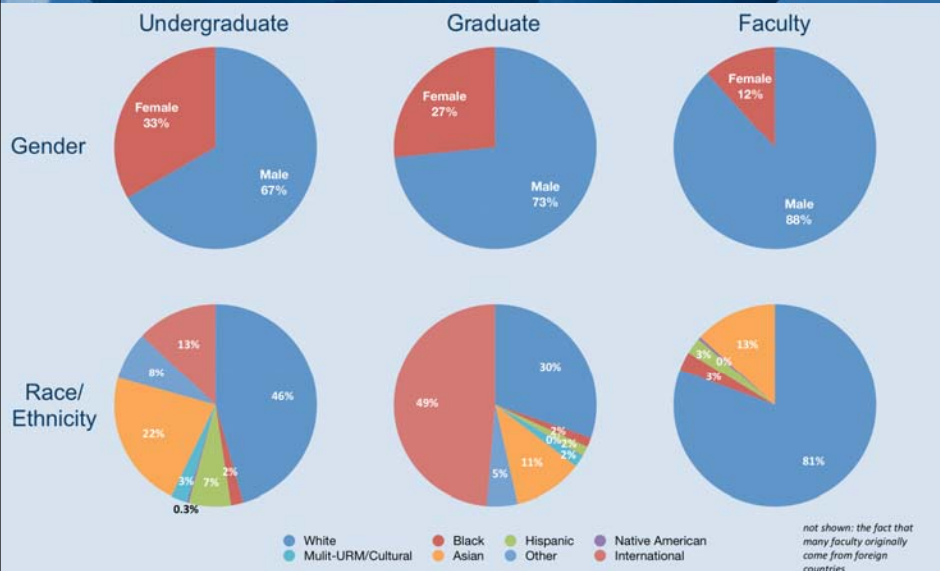
- Special initiatives for Women and URMs
 - Engineering magazine mailing
 - Letter from DPE describing program
 - Phone-a-thon to admitted students by Engineering Ambassadors
 - Pre-freshmen summer program students - congratulatory calls (May)

- On-campus Fall/Spring hosting programs
 - Women - Hosted 147 women overall (2009-10)
 - 71% yield rate (admit to matriculation) – compared to 39% overall
 - URMs – hosted 103 URM students overnight
 - 53% yield rate – compared to ~34% overall
 - Program Costs: \$36,000 for URM, \$12,000 for Women

a key partnership between Engineering Admissions and DPE

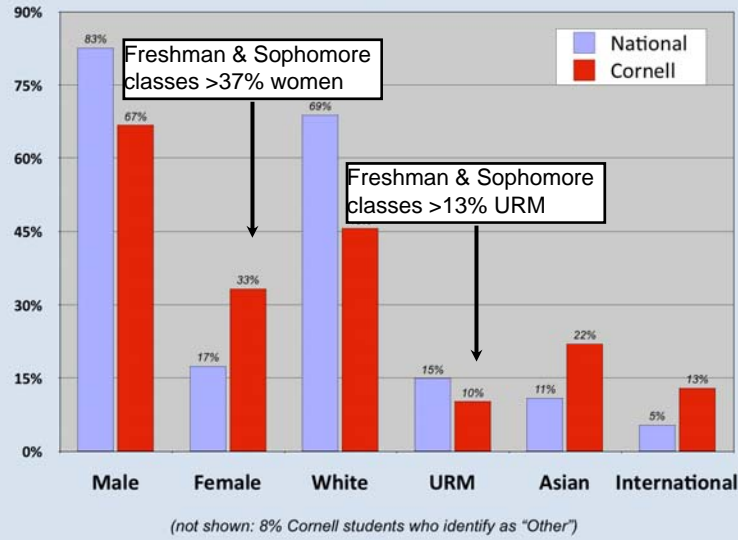
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Faculty and Student Diversity/Gender



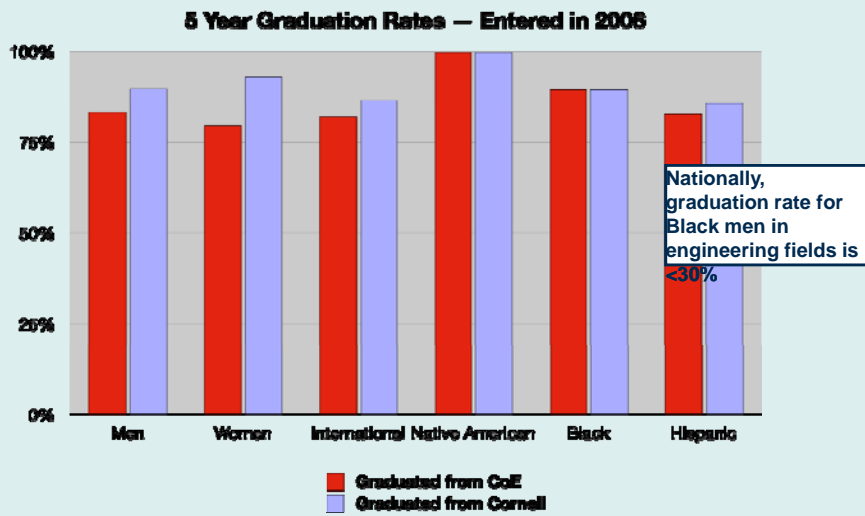
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Undergraduate Enrollments



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Undergraduate Graduation Rates



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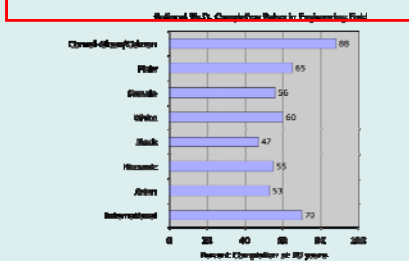
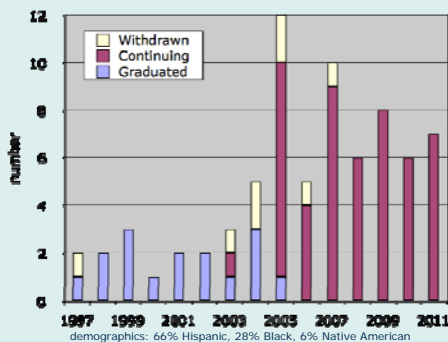
Supporting Student Excellence

- Engineering Summer Scholars Program
- Academic advising, ESSP First year success, early intervention
- Strategic Actions for Excellence (SAFE)
- CU EMPower (peer mentoring program)
- Lunch & learn events with CU alumni
- First Friday dinners with corporate sponsors
- Master Your Future Professional development series
- CU-LSAMP Scholars Program
- CU-LSAMP Summer Research Program
- Advise student organizations: AISES, NSBE, SASE, SHPE, SWE

*most events are open to **all** students!*

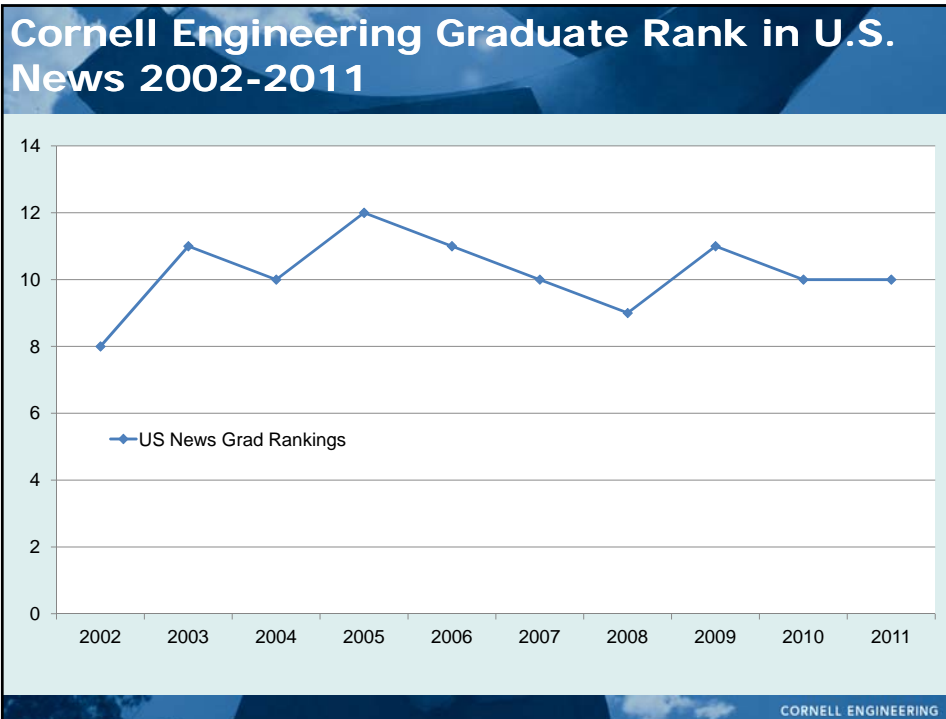
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Cornell Sloan/Colman Diversity Graduate Fellowships



Students in program typically have GRE Quantitative > 750 and undergrad GPA > 3.6

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Cornell Engineering Graduate Program Specialty Ranking 2002 - 2011

Date Ranking Released Edition	Apr '02 2003	Apr '03 2004	Apr '04 2005	Apr '05 6/28/1905	Apr '06 2007	Apr '07 2008	Apr '08 2009	Apr '09 2010	Apr '10 2011	Apr '11 2012
Program	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
College of Engineering	8	11	10	12	11	10	9	11	10	10
Aerospace	10	11	9	12	7	9	8	11	12	11
Bio/Agriculture	NR	4	NR	NR	NR	NR	NR	1	4	4
Biomedical	NR	19	37	27	28	24	25	27	20	20
Chemical	16	17	18	18	13	14	15	16	13	13
Civil	9	9	11	8	9	10	10	10	10	10
Computer Engineering	10	10	8	9	9	11	10	9	NR	8
Computer Science	6	6	NR	NR	5	NR	6	NR	5	NR
Electrical	8	7	9	9	9	8	9	9	9	9
Environmental	12	20	10	8	13	12	13	16	14	14
Earth Sciences	NR	NR	NR	NR	15	NR	NR	NR	13	NR
Industrial	11	11	NR	9	8	8	9	8	8	8
Materials	9	8	10	7	9	7	10	11	8	8
Mechanical	10	9	7	8	8	9	9	9	8	8

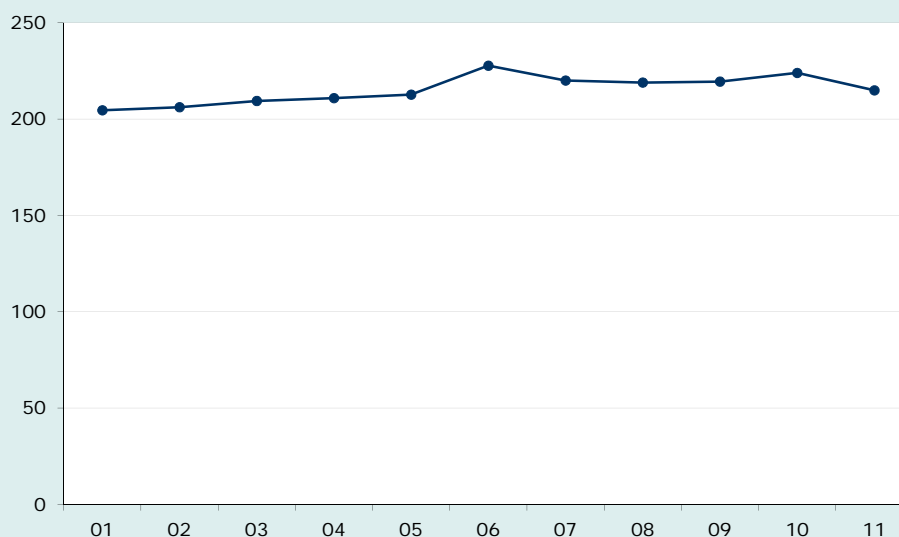
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Cornell Engineering Undergraduate Program Specialty Ranking 2002 - 2011

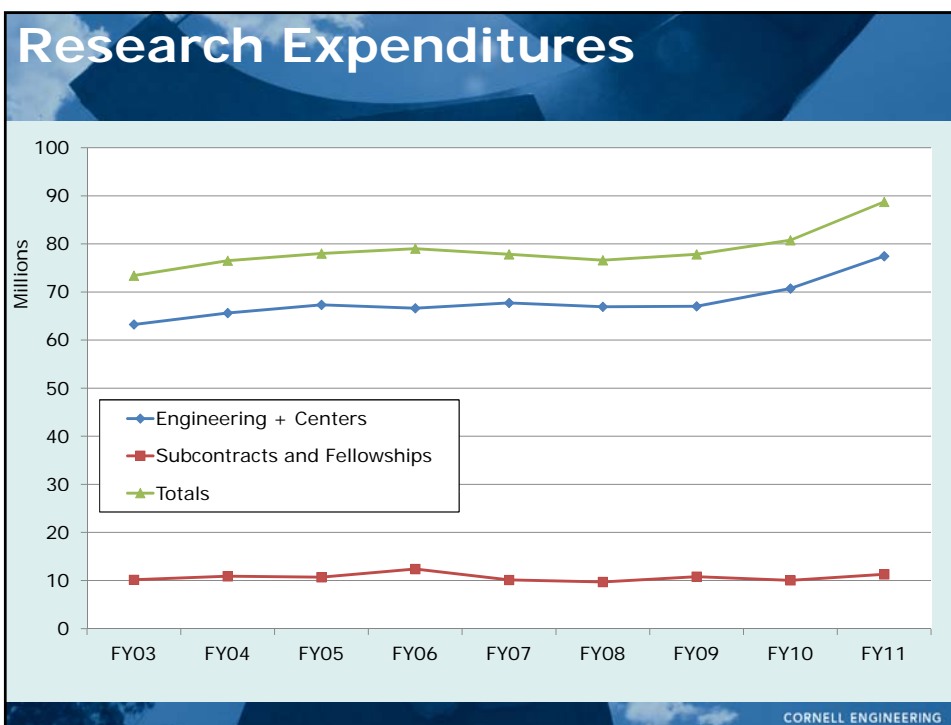
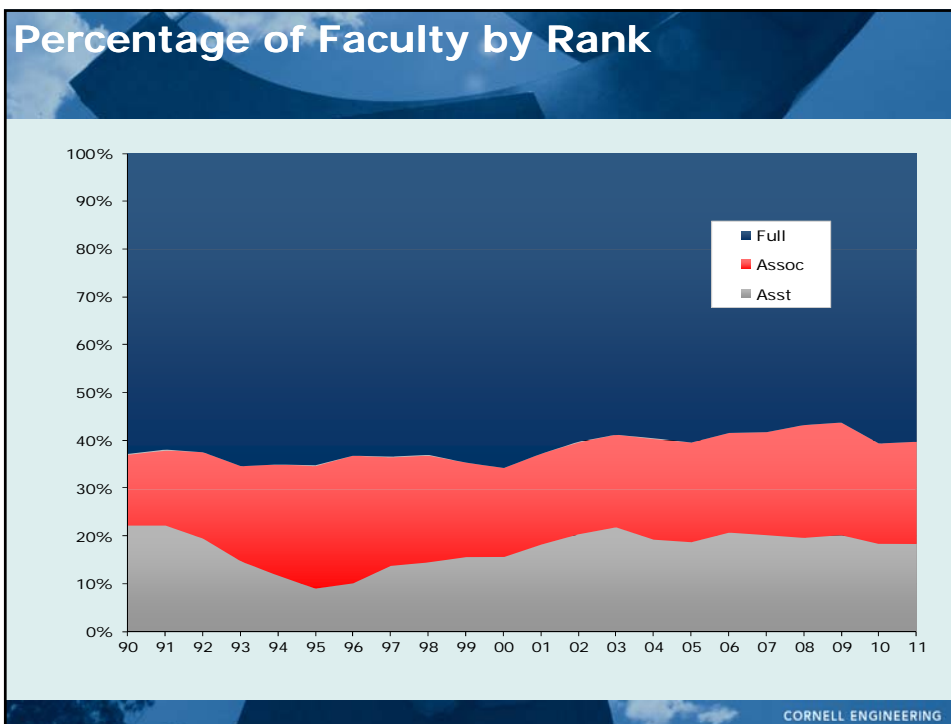
Data Ranking Released	Aug '04	Aug '05	Aug '06	Aug '07	Aug '08	Aug '09	Aug '10	Aug '11
Edition	2005	2006	2007	2008	2009	2010	2011	2012
Cornell University	14	13	12	12	14	15	15	15
College of Engineering	10	9	10	7	8	9	8	9
Aerospace	12	14	13	10	11	13	17	15
Bio/Agriculture	6	NR	4	3	2	5	5	4
Chemical	15	14	14	13	15	14	15	14
Civil	9	9	9	9	9	8	9	9
Computer Engineering	9	9	9	8	8	10	10	10
Electrical	9	8	10	8	8	8	8	8
Engineering Physics	NR	1	1	1	1	2	3	2
Environmental	11	10	9	11	9	10	10	9
Informational	15	11	13	11	11	10	14	15
Materials	6	9	7	6	7	10	7	8
Mechanical	9	9	8	8	8	9	9	8

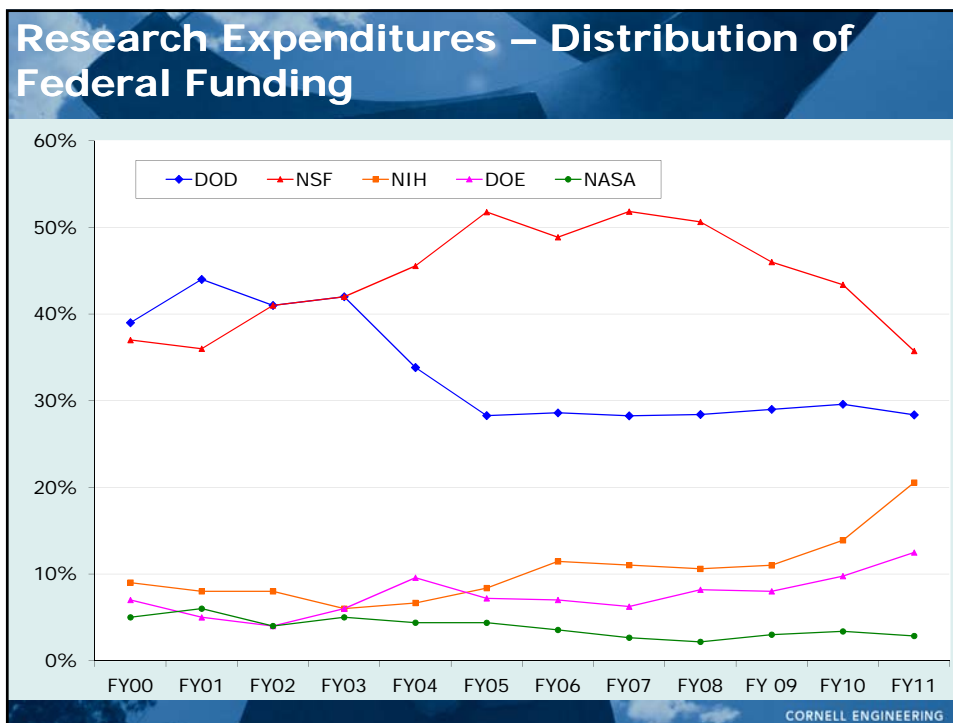
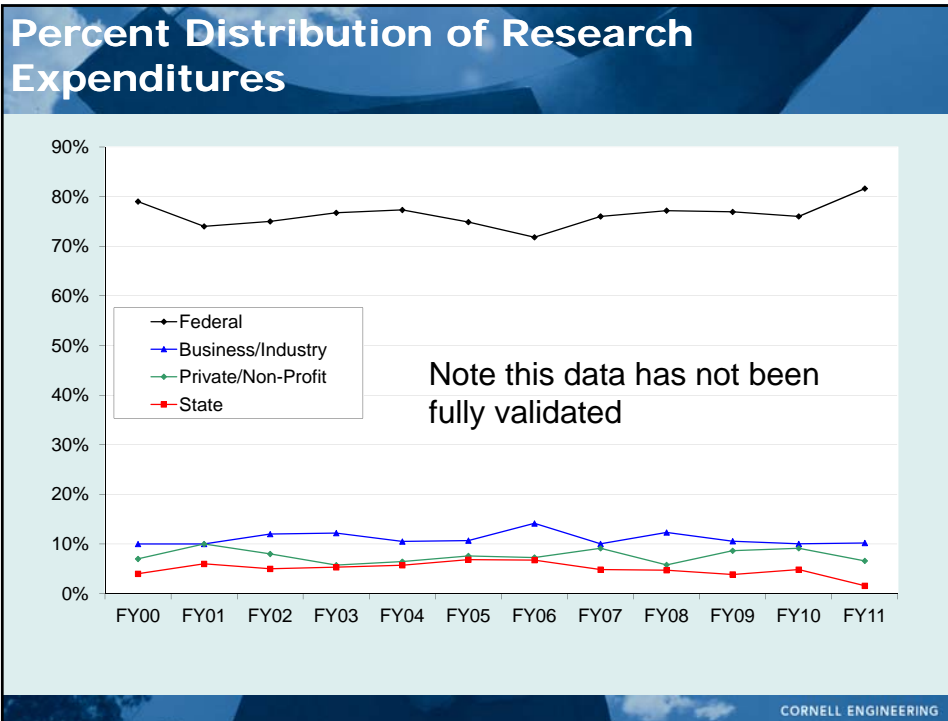
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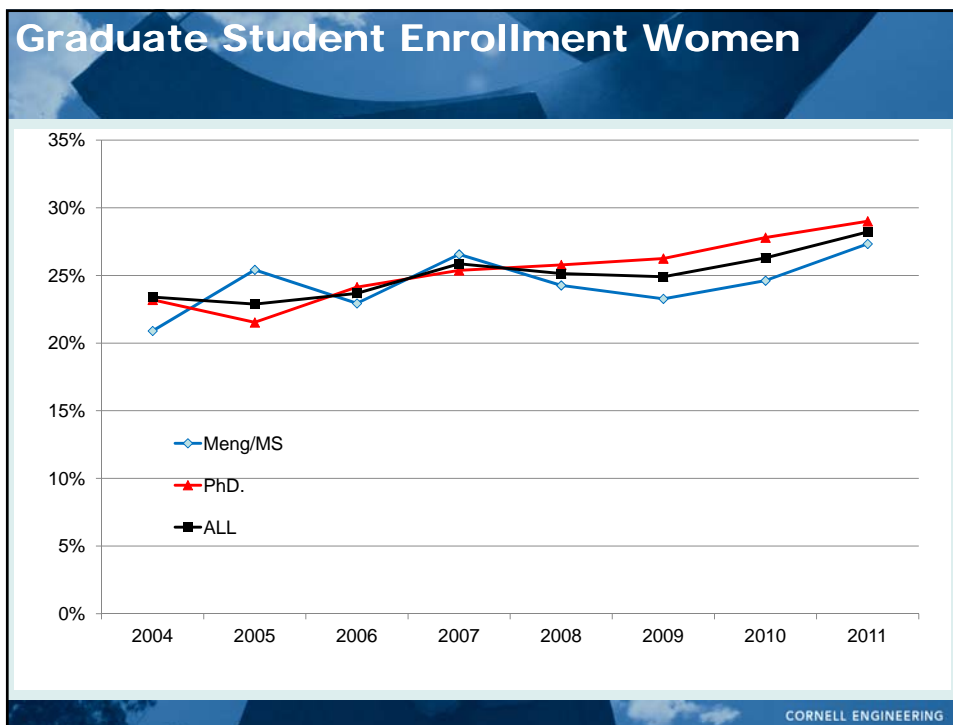
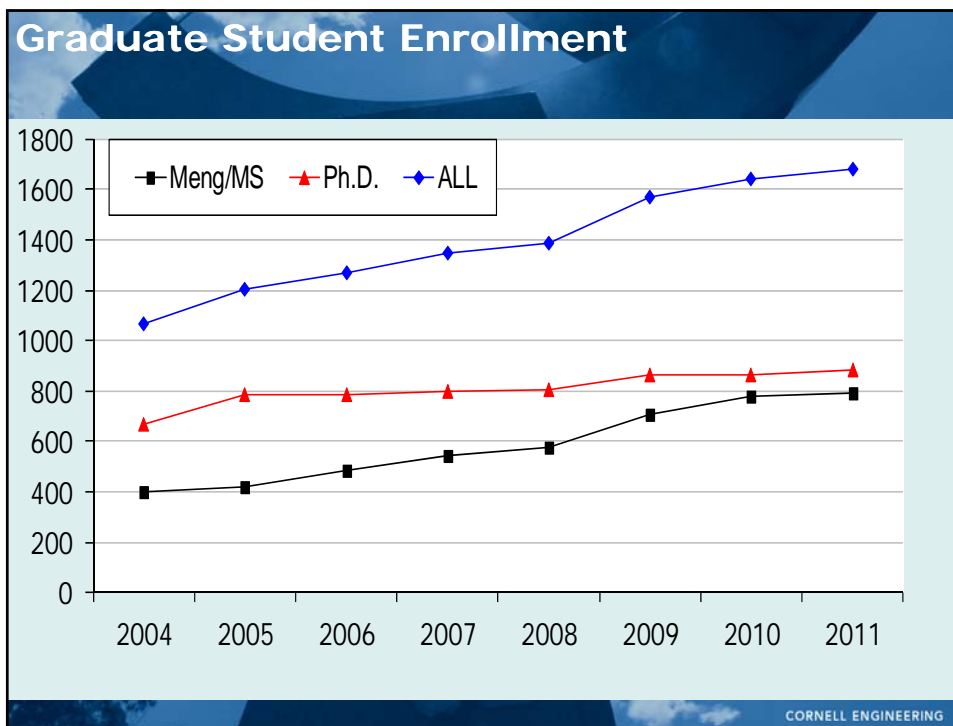
Faculty FTE

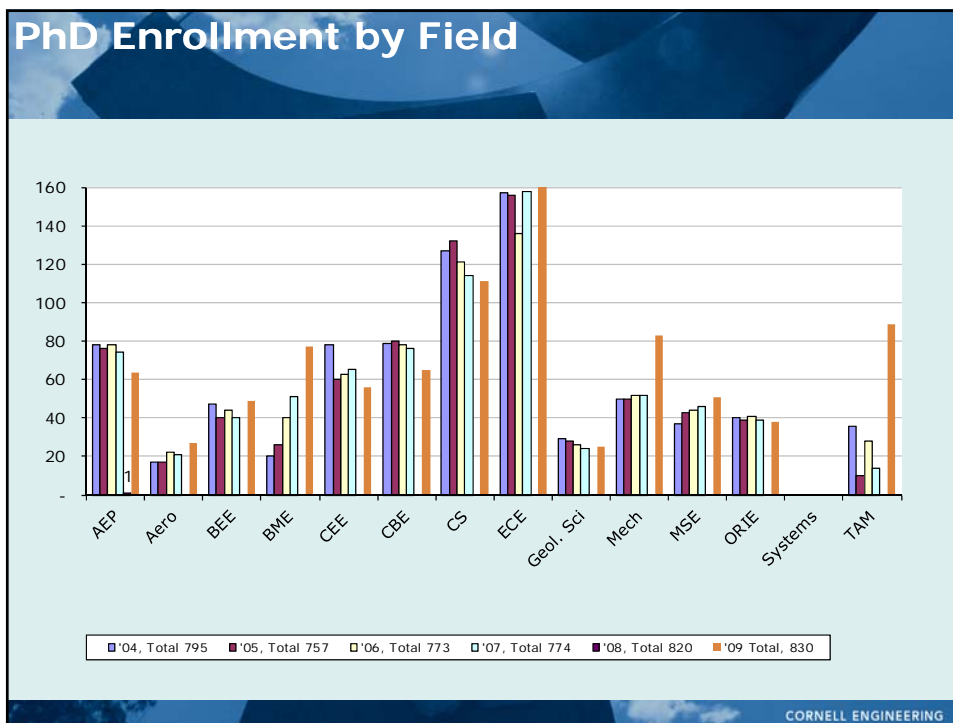
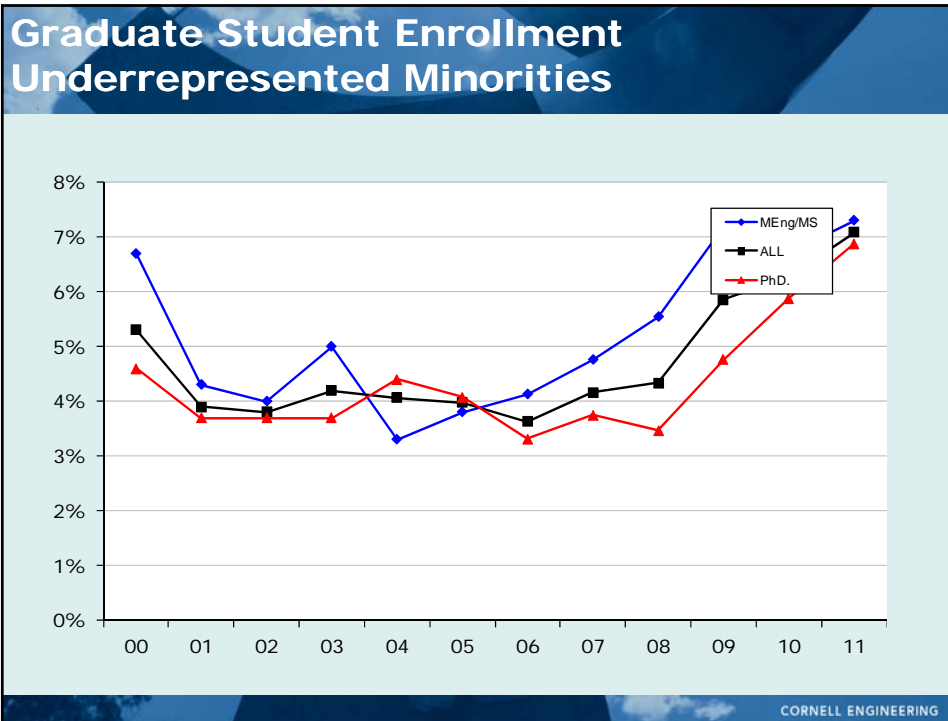


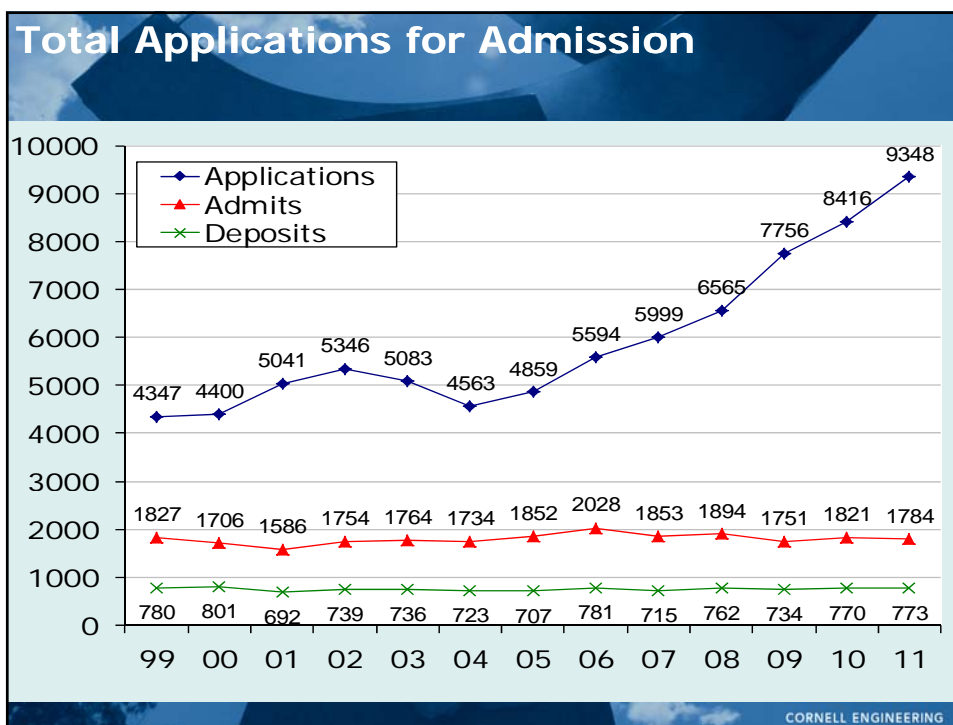
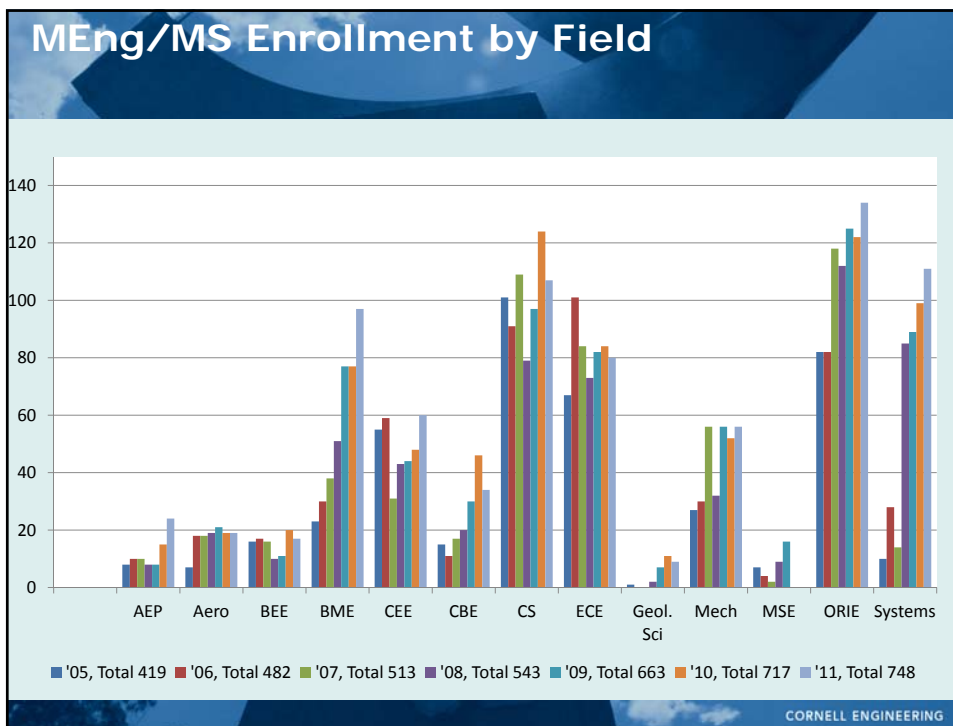
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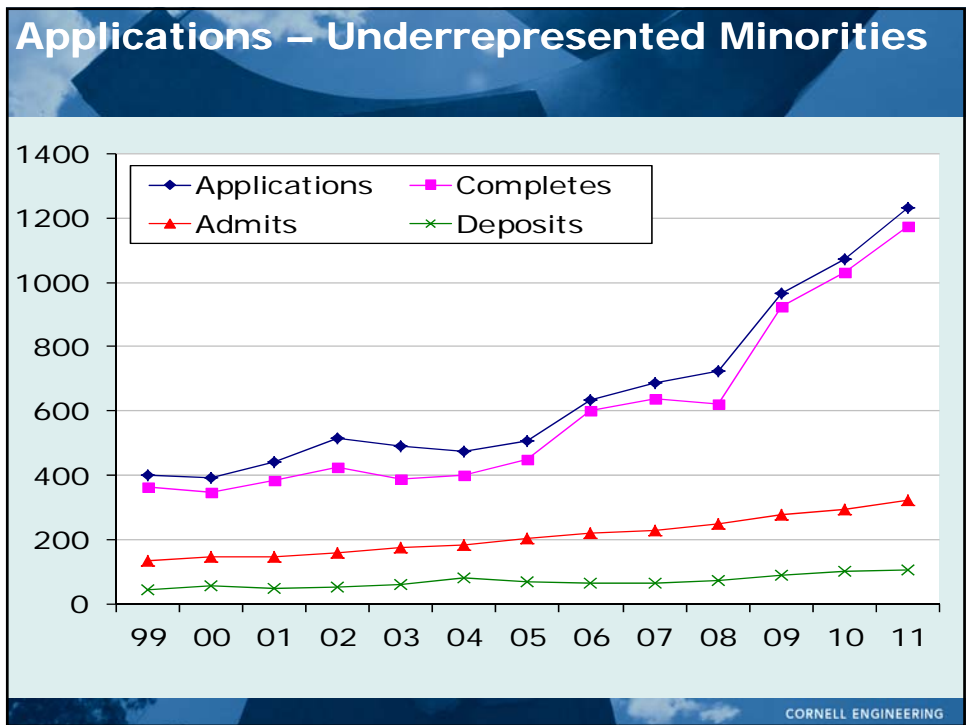
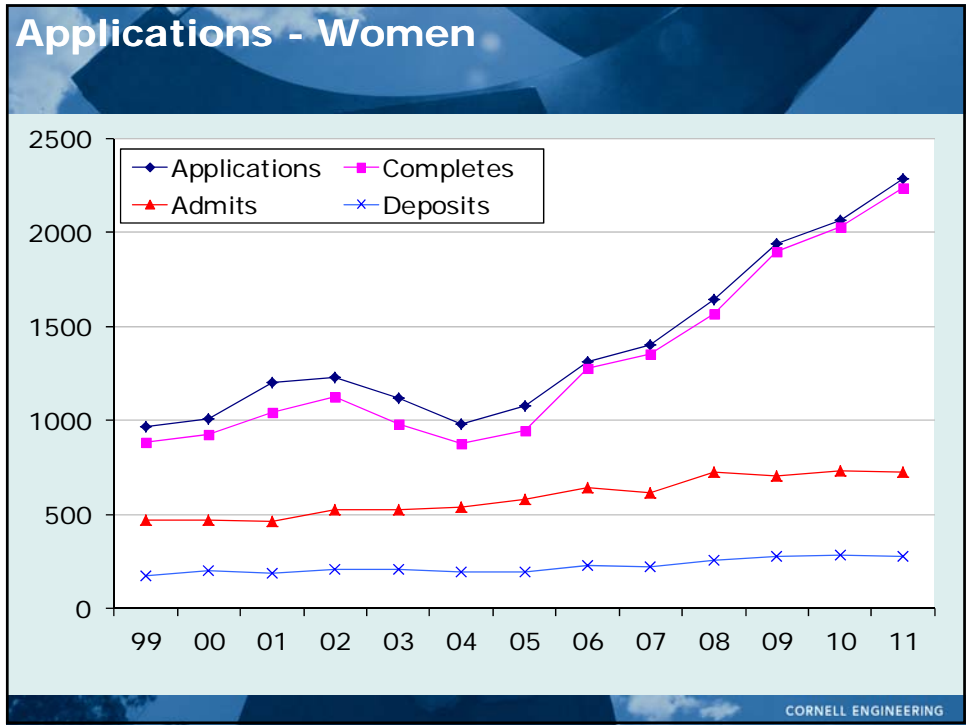


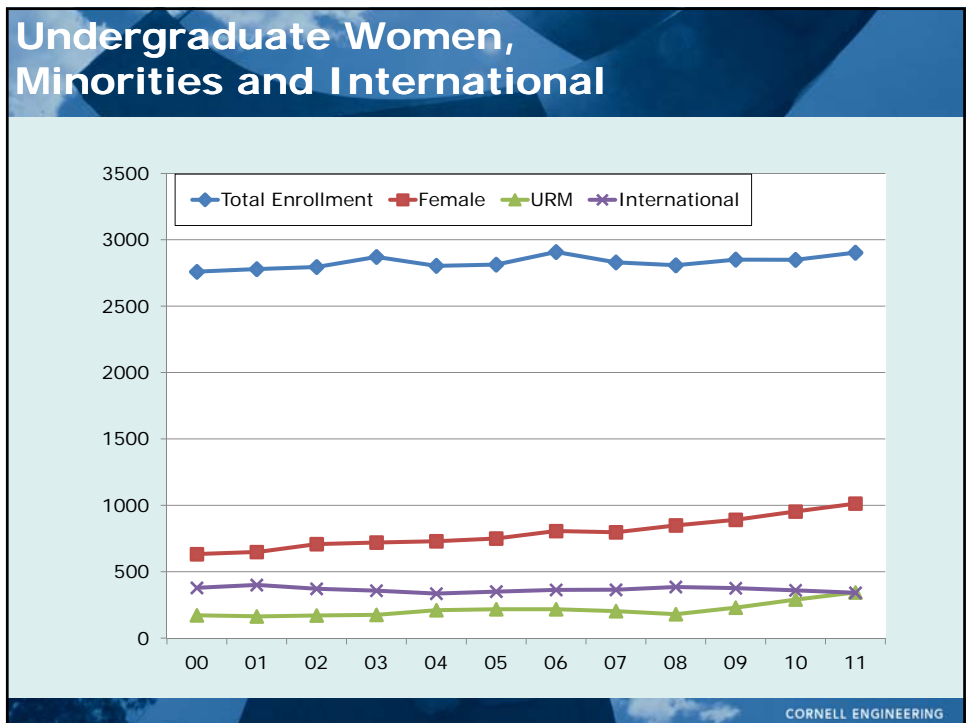
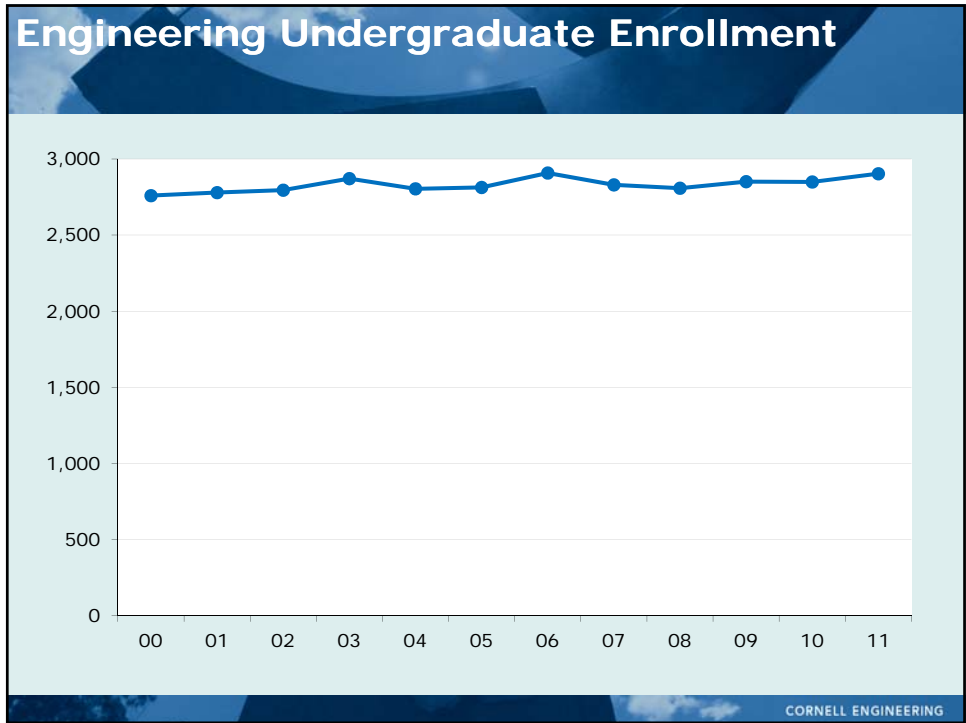


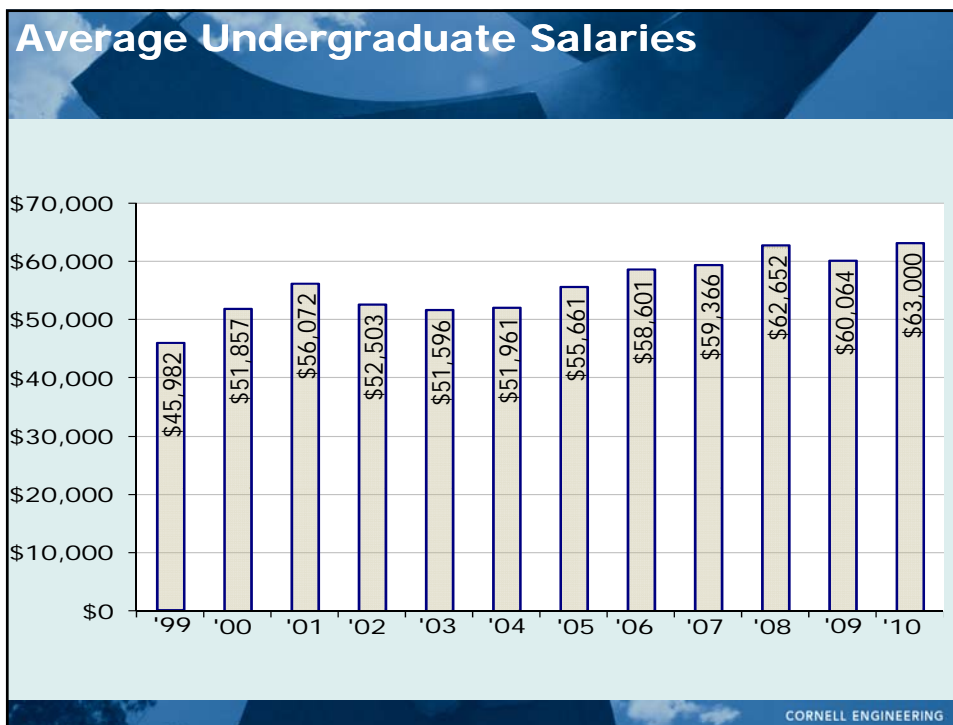
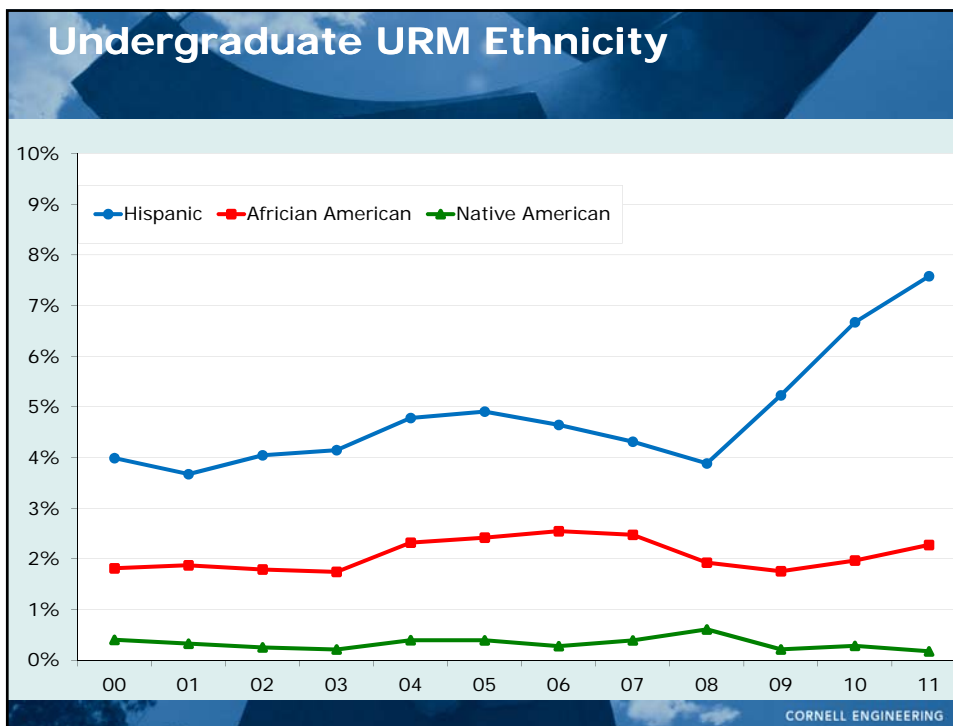






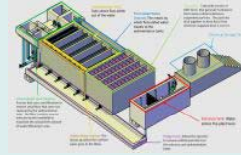






Student Achievements

- Agua Clara wins 2011 Intel Tech Award (\$50,000)
- Cornell University Sustainable Design Team builds house 6000 sq ft schoolhouse in South Africa
- Autonomous Underwater Vehicle takes second at competition
- AIChE car wins regionals; off to nationals (which they won in 2008 and 2010)



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ECC Discussion, Spring 2011

- Industry relationships
 - Partnership model for interactions
 - Manage corporate relationships more like our alumni relationships
- Clarity for industry and entrepreneurs
 - **Licensing terms**
 - **IP policy**
 - **Current policies seem to be ad hoc**

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Technology Transfer and Industrial Interactions: Status Update

- Technology transfer
 - IP ownership
 - New proposal for a “carve-out procedure” from Bob Buhrman’s office
 - To be submitted to trustees for approval in January, assuming no obstacles
 - License agreements
 - In principle, agreement to a narrow range for industry-sector specific licensing terms
 - Public domain research
- Industrial interactions
 - We are part of 4 of the 5 announced Intel STCs
 - Long way to go on changing the faculty culture w.r.t. corporate funding

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The NYC Tech Campus



Transformational Opportunity - NYC

