Welcome CAP Executive Board

UCSD | School of Jacobs | Engineering

June 14, 2012

CAP Leadership 2011 - 2012



CAP Chairman: Anton Monk, Ph.D. UCSD '94 Co-founder & VP Technology Entropic Communications



CAP Vice Chairman: Rusty Sailors Chief Project Engineer, Director BAE Systems

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Welcome New CAP Members!







Welcome Distinguished Students

Triton Engineering Student Council

Women in Computing

Engineers for a Sustainable World

UCSD Corporate Jacobs Affiliates Program



CODE THE SUCCEPTION Engineering Student Council

Congratulations **NEW** TESC President 2012-13 Pooja Makhijani, **BioEng '14**

http://tesc.ucsd.edu/

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Highlighted Events

UCSD Biodiesel Refinery Projec

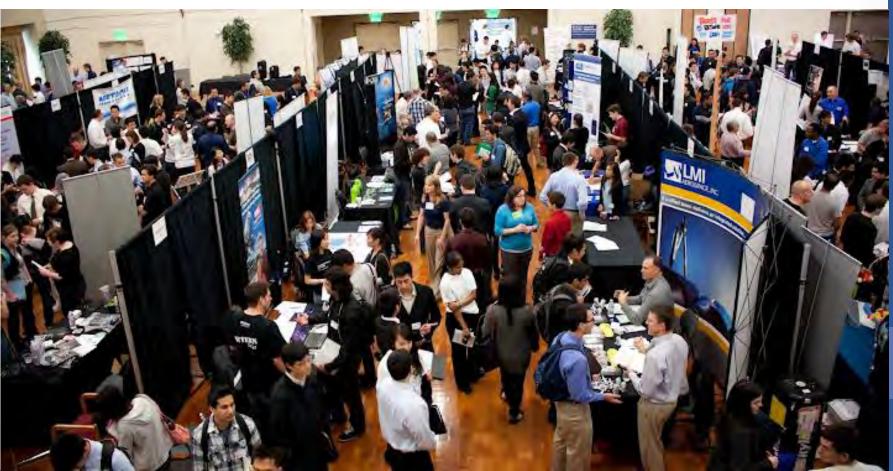
CAAN -

- EUReKA 2012
- Enspire
- Junkyard Derby



DECaF 2012

- Over 80 Companies attended
- Date for Next Year: February 22nd 2013
- Two Ballrooms for 2013



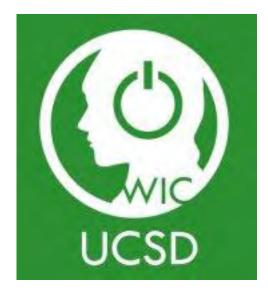
Goals for 2012-13

- Engineers on the Green
- Org Collaboration Initiative
- Opening up resources
- MOMENTUM
- Creating a Thriving
 Engineering
 Student
 Community



ZUCSD TESC

UCSD Women In Computing



Liz Chaddock, CSE '14 Eliah Overbey CSE '15



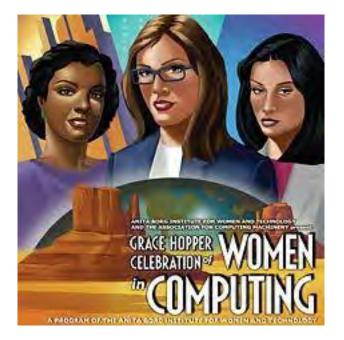
Celebration of Women in Computing Conference

- April 14⁻15
- Workshops, poster sessions, career panel, career fair, keynote speaker, dance party
- 1/3 of the conference attendees from UCSD



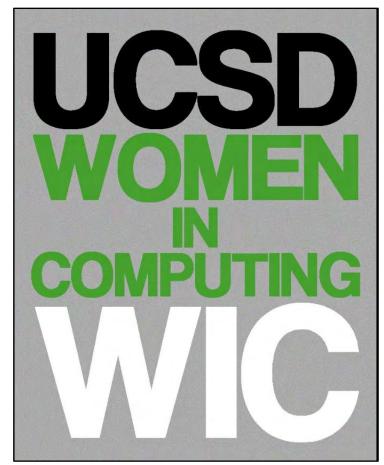
Grace Hopper Conference 2012 October 3 - 6

- Goal Full funding for 15 WIC members: \$16,000
- Thank you to Yahoo, Cisco, and Microsoft for their generous donations amounting to \$12,500!



Future Events for 2012 - 2013

- Bi-Weekly social events
- Big sister/little sister mentoring program
- C++ and Python workshops
- Web development classes
- WIC hosted programming contest
- Strong WIC presence at Dini Group programming contest
- Technical project teams



Contact us!



- Eliah Overbey President eoverbey@ucsd.edu
- Liz Chaddock Vice President echaddock@ucsd.edu
- Visit our website at wic.ucsd.edu

Engineers for a Sustainable World



A Student Organization at University of California, San Diego



Bringing communities together to develop, implement, and share sustainable technologies and practices worldwide.

Hien Nguyen, ME '12 | hien.nguy3n@gmail.com

Engineers for a Sustainable World

esw.ucsd.edu

What we've **accomplished** this year:

- 15 student-run projects
- 55 active members
- 3 huge community-building events



Water Purification



Clinton Global Initiative



Preserve Our Planet! Campaign



Tiny House Project



Engineers for a Sustainable World

esw.ucsd.edu

Coming **soon**...



Interested in Joining? esw.ucsd@gmail.com

Dean's Report

Dean Frieder Seible Jacobs School of Engineering

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Structural and Materials Engineering Building

Dedication September 14, 2012



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"Fallen Star" UCSD Stuart Collection

Becoming an Iconic Symbol of UCSD Campus





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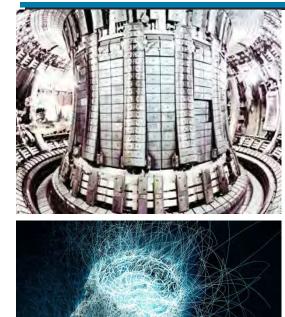






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Academic Year 11-12 Faculty Hiring Plan

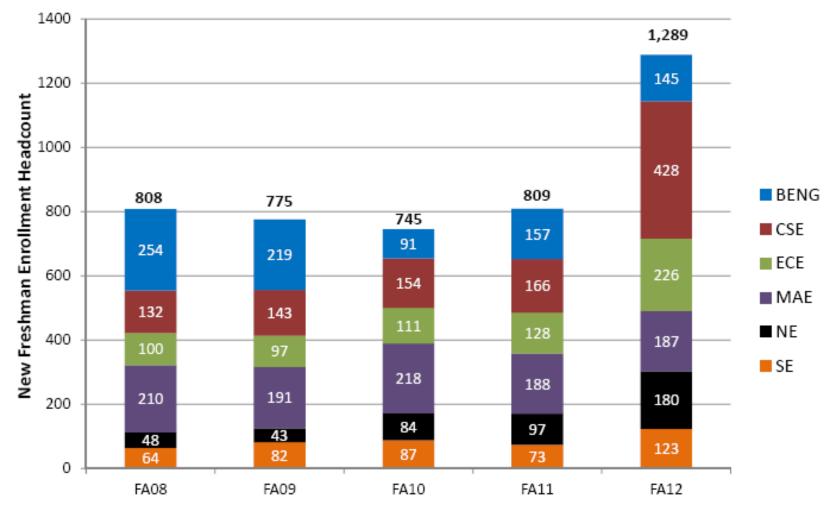




SPECIALTY
Energy/Power
Energy
Materials in Energy
Aviation Safety
Advanced Energy Technology
BioSystems Engineering
Regenerative Medicine
Quant/Systems Biology
High Fidelity Info Access
HCI/Computing and Machines
Excellence
Teaching Professor

Freshman Accepts by Department

Jacobs School New Freshman Enrollment



Updated June 11, 2012

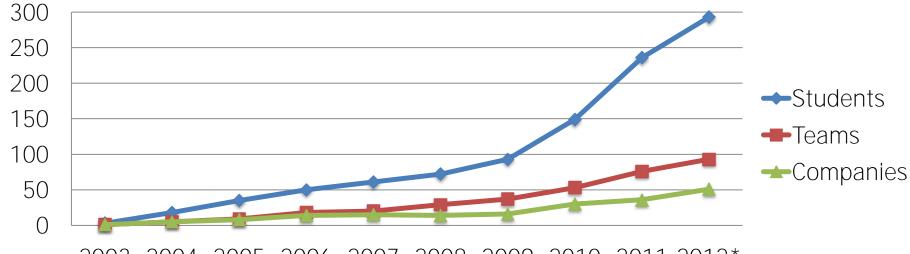
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Freshman Admission: Increase in Both Admission and Yield

	Fall 2011				Fall 2012					
Dept.	Admit	Accept	Yield		Admit	Accept	Yield		Change	% of 2011
BIOE	753	157	21%		627	145	23%		-12	92%
CSE	802	166	21%		1,339	428	33%		262	258%
ECE	660	128	19%		918	226	25%		98	177%
MAE	947	188	20%		937	187	20%		-1	99%
NE	529	97	18%		755	180	24%		83	186%
SE	300	73	24%		452	123	28%		50	168%
Total	3,991	809	20%		5,028	1,289	26%		480	163%

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Team Internship Program Summer 2012 Preview



2003 2004 2005 2006 2007 2008 2009 2010 2011 2012*

Team Internship Program	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012*
Students	3	18	35	50	61	72	93	149	236	293
Teams	1	5	9	18	20	29	37	53	76	93
Companies	1	5	8	14	15	14	16	30	36	51
New sponsors	1	4	5	8	4	3	6	18	21	19
Returning sponsors	3	1	3	6	11	11	10	15	15	32
International teams				1	2	8	0	5	4	3

* in progress

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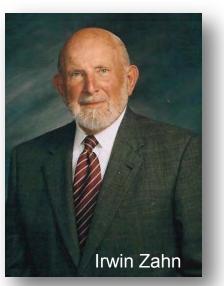
TIP Sponsors – Summer 2012





Moxie Foundation Gift Enables

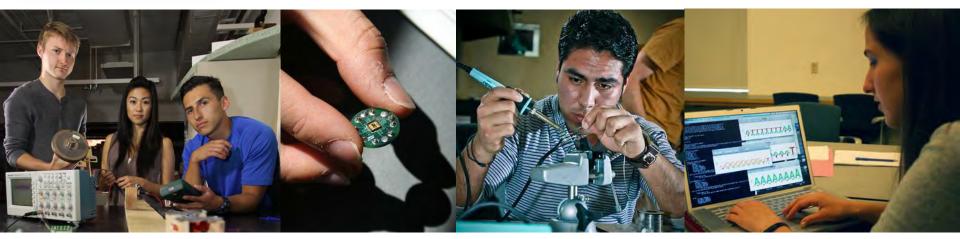
Incubator to Mentor Undergraduate Inventors



- Product Design and Entrepreneurship Course
- Laboratory Space and Equipment to Develop Prototypes
- Mentoring by Experienced Inventors and Entrepreneurs
- Competitive Awards for Best Ideas



Got Moxie? (spirit, courage, initiative)



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Protecting Critical Non-Structural Components in Buildings





Distinguished Faculty Presentation



Professor Tara Hutchinson Structural Engineering

Earthquake and Post-Earthquake Fire Performance of Nonstructural Components and Systems in a Full-Scale Building



CAP Business



Anne O'Donnell Director Corporate Affiliates Program Jacobs School of Engineering







Nominees

UNIVERSITY OF CALIFORNIA, SAN DIEGO ACADEMIC AFFAIRS

Exemplary Staff Employee of the Year Nominees

Cody Noghera

Deputy Director, Corporate Affiliates Program

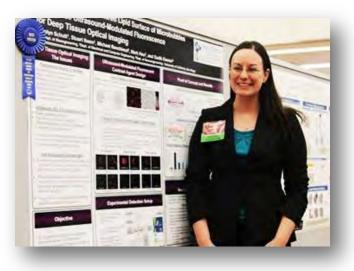
Terrance Mayes

Director, IDEA Student Center



2012 Highlights

- **o 600 Participants**
- New judging format was well received
- **D** Thank You Sponsors





"Best access to research at the Jacobs School"

Master of Advanced Study Degree



Faye Kurpanek

Director Executive Education Jacobs School of Engineering

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Master of Advanced Study Degree

		Fall 2011 Enrolled	Fall 2012 Applications
	Architecture-Based Enterprise Systems Engineering	30 new / 27 returning	35
	Wireless Embedded Systems	20	80 (30 max enrollment)
	Medical Devices Engineering	6	56 (15 max enrollment)
Air Speed (mio) 15 8.5	Simulation-Based Engineering		41
			32
	Structural Health Monitoring		

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Inclusion, Diversity, Excellence, and Advancement



Terrance Mayes

Director IDEA Student Center Jacobs School of Engineering





IDEA Scholars Program Moving Forward





- 2011 22 Freshmen
- 2012 34 Freshmen, 20 Transfer Students
- **Summer PreP 2012: event for Transfer Students**

IDEA Scholars Breakfast for Prospective Students

90% of participants applied to be IDEA Scholars



NORTHROP GRUMMAN



communications







Retention Programs Underway



JUMP Peer Mentoring



Introduction to Engineering Courses



IDEA Study Lab and Tutoring





Smart Solar Power 10 IDEA Scholars Project

TIP Training Day on Saturday June 2, 2012

- Day-long training
- Workshops Tracts:
 - Communication Skills
 - Teams & Leadership
 - Professional Development
- New features:
 - Conference Style
 - Industry Speakers
 - Intern Guidebook
- 100+ students attended

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TIP Training Day on Saturday June 2, 2012



Thank you to our industry speakers and collaborators!



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Junkyard Derby 2012 Re-CAP



28 Teams: All Majors, Alumni, Faculty and Staff

Next Year Two Divisions: Including UPHILL Race!

Thank you to CAP sponsors :









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"The **fb** team was very impressed by the quality of the students and their hacks as well as how smoothly everything ran."

Adam Ward, Facebook University Recruiting Manager

- 130 Bright, Innovative Students
- 14 Multi-Disciplinary Teams

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Winners advance to next level of competition



Dinner with the Deans

CAP Executives value 'getting involved'





CAP Business



Dates to Remember in 2012:

June 19	Regional Tech Talk and Alumni Event - Cymer
August 14	Regional Tech Talk and Alumni Event - Facebook
September 10	Spirit of Solar CAP Executive Cruise on San Diego Bay
September 14	Structural and Materials Engineering Building Dedication
September 27	CAP Executive Board Meeting – IN OUR NEW EBU IV!
November 8	Professional Evening with Industry by NSBE, SHPE, SWE, & AISES

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A CAP 'Champion' is one whose vested interest not only lies with their organization but also the genuine interest of the Students, Faculty, and Research at the Jacobs School.

This is a CAP member who participates in several CAP benefits and programs to create opportunities for talent and technology that develops and inspires the human and intellectual capital for the Jacobs School, for their company and for society.



Thank you CAP 2011 - 2012 Leadership



CAP Chairman: Anton Monk, Ph.D. UCSD '94 Co-founder & VP Technology Entropic Communications



CAP Vice Chairman: Rusty Sailors Chief Project Engineer, Director BAE Systems

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