### 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

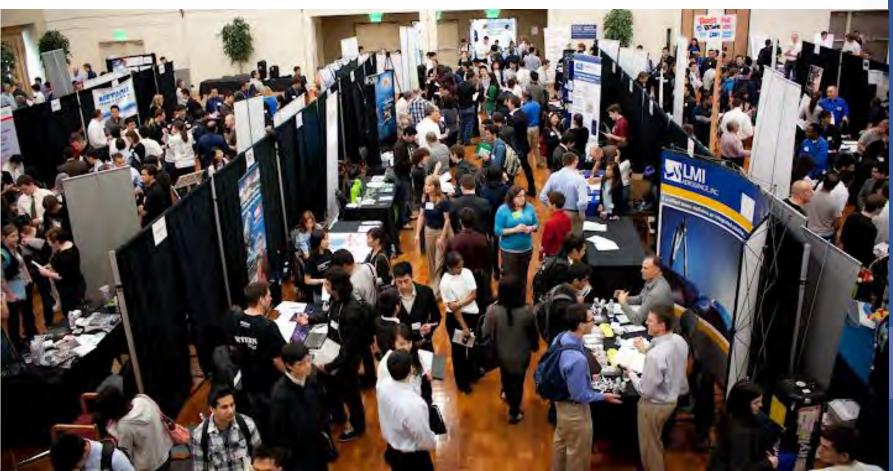
CAAN -

- EUReKA 2012
- Enspire
- Junkyard Derby



# DECaF 2012

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



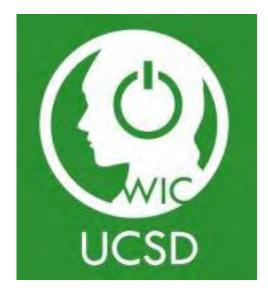
# Goals for 2012-13

- 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



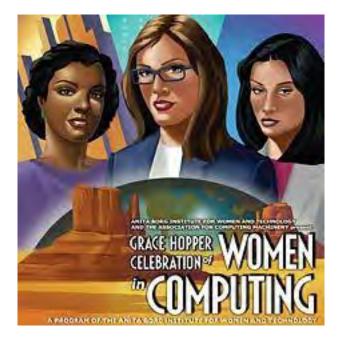
# Celebration of Women in Computing Conference

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



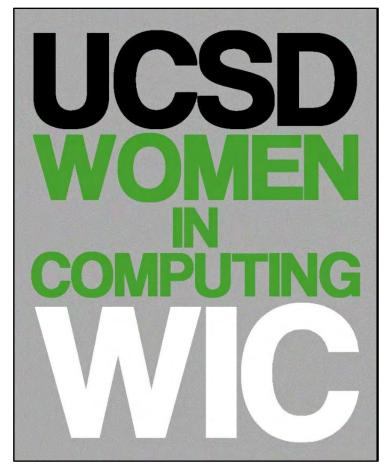
# Grace Hopper Conference 2012 October 3 - 6

- 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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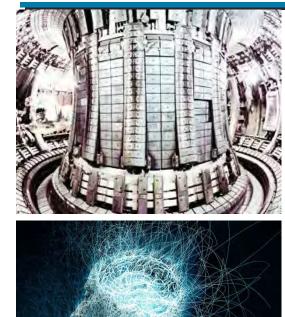






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### **Academic Year 11-12 Faculty Hiring Plan**

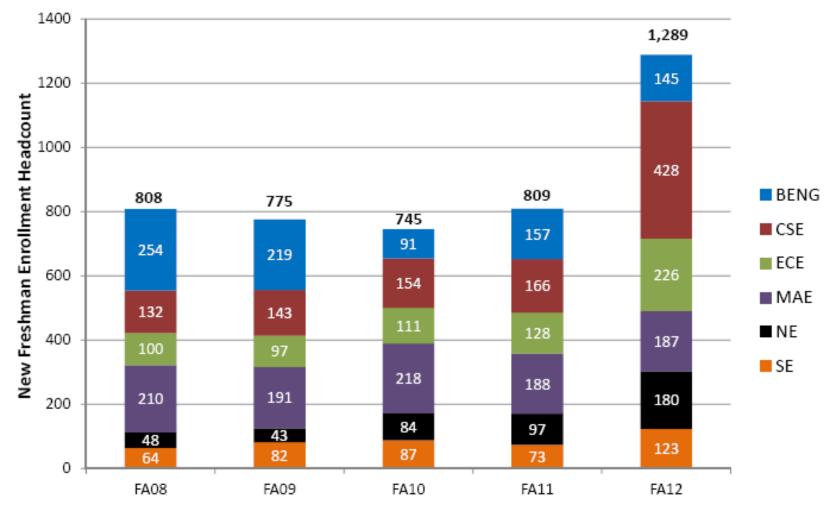




SPECIALTY
Energy/Power
Energy
Materials in Energy
Aviation Safety
Advanced Energy Technology
BioSystems Engineering
Regenerative Medicine
Quant/Systems Biology
High Fidelity Info Access
HCI/Computing and Machines
Excellence
Teaching Professor

### **Freshman Accepts by Department**

#### Jacobs School New Freshman Enrollment



Updated June 11, 2012

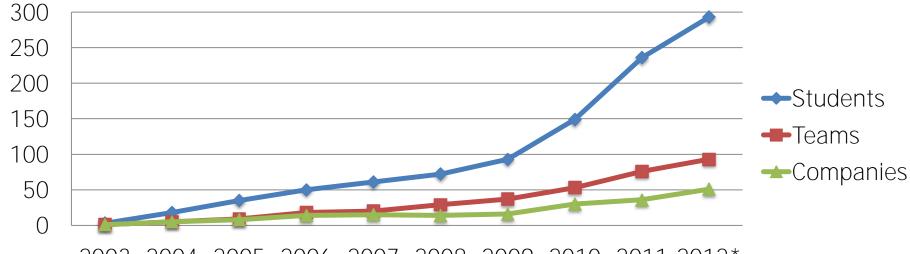
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### **Freshman Admission: Increase in Both Admission and Yield**

	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	<b>163%</b>

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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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**Affiliates Program** 

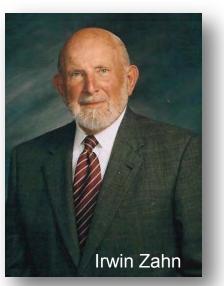
### **TIP Sponsors – Summer 2012**





### **Moxie Foundation Gift Enables**

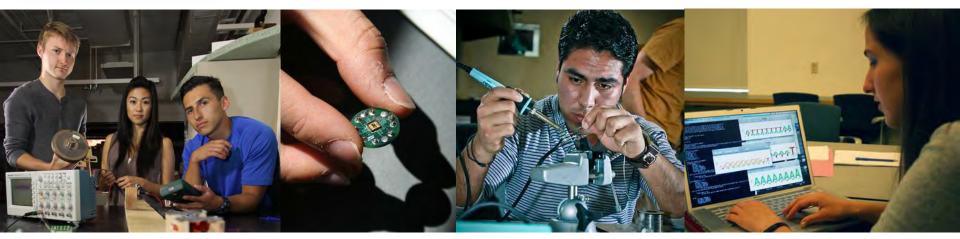
#### **Incubator to Mentor Undergraduate Inventors**



- 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

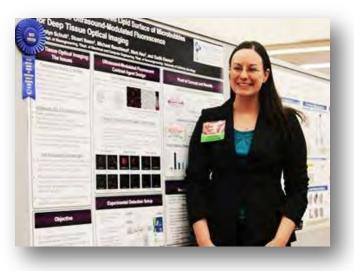
### **Terrance Mayes**

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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**Affiliates Program** 



### 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 :









### 3

"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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