

Welcome CAP Executive Board



UCSD
Jacobs

School of
Engineering

February 13, 2014



CAP Leadership 2013 - 2014



CAP Chairman:
Rich Goldberg
VP Corporate Quality, Cisco



CAP Vice Chairman:
Mark Ambrose
San Diego Site Executive, Raytheon

Welcome New CAP Members!



Welcome Distinguished Students

Triton Engineering Student Council
(TESC)

Triton Rocket Club

Students for the Exploration and
Development of Space





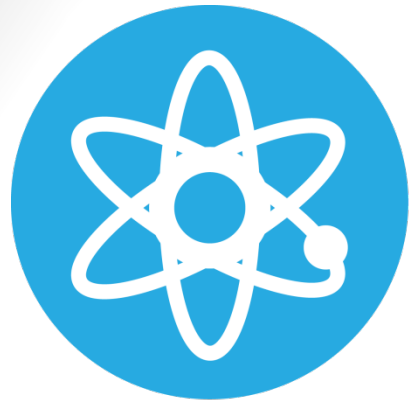
Triton Engineering Student Council

Pooja Makhijani, TESC President, BioEng '14

New from 2013-2014

- READY Outreach Program
- Mentorship Program
- Jacobs School Travel Fund





DECaf

Disciplines of Engineering Career Fair

Largest student-run engineering career fair on the west coast

Attended by over 80 companies, all engineering majors
represented

Attended by over 2,000 UCSD engineering undergraduates and
graduate students

Thank you to CAP members who have registered for DECaF 2014!

Amazon/Lab 126

Arista Networks

Bentley

CliniComp, Intl.

Cubic

Cymer

Entropic, Inc.

Facebook

Google

Hughes Network

Informatica

Intuit

L3

Leidos

LSI

Microsoft

NAVAIR

Navy

Northrop Grumman

Quartus Engineering

Salesforce

Sandia National Laboratories

San Diego Gas & Electric

SPAWAR

Teradata

Thermofisher Scientific

TrellisWare Technologies

UTC Aerospace Systems

ViaSat, Inc.

Yahoo!

Yelp



Junkyard Derby

May 3rd-5th, 2014

UCSD
Jacobs

TESC

Dean's Report



Dean Albert 'Al' P. Pisano
Jacobs School of Engineering



Newly Appointed Associate Deans



Pamela Cosman
Associate Dean for Students
Vice Chairman & Professor, ECE



Jan Talbot
Associate Dean for Faculty Affairs and Welfare
Professor, NanoEngineering



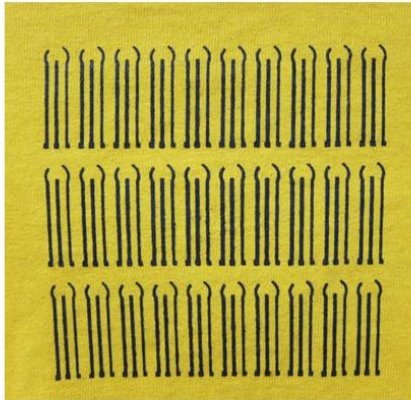
George Tynan
Associate Dean for Research
Professor, MAE

New Directions



Agile Centers: partnering in research excellence

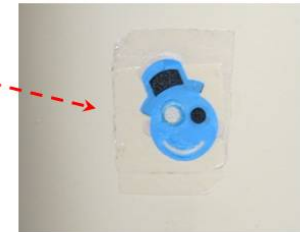
Environmental Textile Sensor



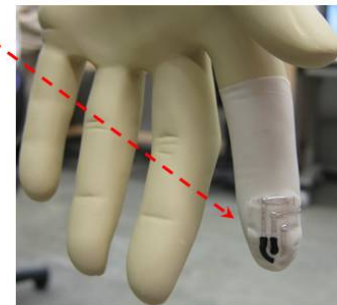
Biofuel Cell



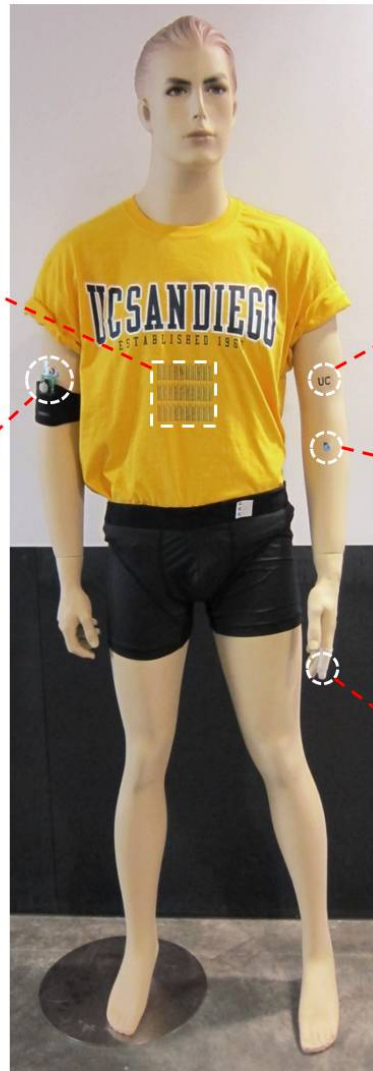
pH Sensor



Forensic Finger Sensor



Metabolite Sensor with Electronics



E4 – Experiential Engineering Education

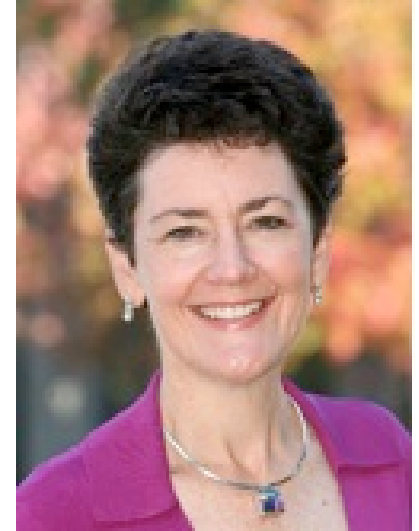
all 4 years:

Rapid Prototyping Use Case



Industry Partner Insights

- What kinds of projects should freshman engineering students work on?
- What should be the level of industry involvement in these projects?
- What are the opportunities for industry to partner and support projects? e.g. advice, equipment, gifts. How best to work with industry on this?



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

Jacobs School New Freshman Admissions Fall 2013 and Fall 2014

		Fall 2013 as of third week enrollment				Fall 2014 as of 1/23/14				% change in applications
Dept	Major	Applicants	Eng Admits	Accepts	Yield	Applicants	Eng Admits	Accepts	Yield	
BENG	Bioengin	1,793	333	39		2,090				
BENG	Bioeng Binf	110	143	40		86				
BENG	Bioeng Biosys	0	15	20		64				
BENG	Bioeng Biot	488	200	38		531				
		2,391	691	137	20%	2,771	0	0		15.9%
CSE	Comp Sci	2,477	533	104		3,613				
CSE	Comp Sci Binf	80	82	29		97				
CSE	Comp Eng	1,196	230	51		1,471				
		3,753	845	184	22%	5,181	0	0		38.0%
ECE	Comp Eng	484	109	26		528				
ECE	Electr Eng	1,334	934	265		1,377				
ECE	EE & Society	26	15	3		20				
ECE	Engin Phys	120	102	22		136				
		1,964	1,160	316	27%	2,061	0	0		4.9%
MAE	Aerosp Eng	1,077	240	54		1,188				
MAE	Environ Eng	501	295	75		532				
MAE	Mech Engin	2,589	443	78		3,061				
		4,167	978	207	21%	4,781	0	0		14.7%
NE	Chem Engin	948	681	150		993				
NE	Nano Eng	208	233	68		199				
		1,156	914	218	24%	1,192	0	0		3.1%
SE	Engin Sci	160	94	9		100				
SE	Struct Eng	809	362	109		676				
		969	456	118	26%	776	0	0		-19.9%
TOTAL		14,400	5,044	1,180	23%	16,762	0	0		16.4%

Data source: UCSD admissions database.

Jacobs School Transfer Admissions

Fall 2013 and Fall 2014

Dept	Major	Fall 2013 as of third week enrollment				Fall 2014 as of 1/23/14				% change in applications
		Eng Applicants	Eng Admits	Eng Accepts	Yield	Eng Applicants	Eng Admits	Eng Accepts	Yield	
BENG	Bioengin	130	29	9		140				
BENG	Bioeng Binf	17	18	11		10				
BENG	Bioeng Biosys	0	0	0		10				
BENG	Bioeng Biot	50	18	8		52				
		197	65	28	43%	212	0	0		7.6%
CSE	Comp Sci	573	289	181		877				
CSE	Comp Sci Binf	11	3	1		12				
CSE	Comp Eng	157	81	50		221				
		741	373	232	62%	1,110	0	0		49.8%
ECE	Comp Eng	62	41	21		68				
ECE	Electr Eng	442	320	171		433				
ECE	EE & Society	2	2	1		0				
ECE	Engin Phys	14	9	3		15				
		520	372	196	53%	516	0	0		-0.8%
MAE	Aerosp Eng	118	31	9		141				
MAE	Environ Eng	68	54	21		37				
MAE	Mech Engin	509	68	13		531				
		695	153	43	28%	709	0	0		2.0%
NE	Chem Eng	206	133	53		238				
NE	Nano Eng	46	37	16		39				
		252	170	69	41%	277	0	0		9.9%
SE	Engin Sci	8	6	0		11				
SE	Struct Eng	176	113	56		183				
		184	119	56	47%	194	0	0		5.4%
TOTAL		2,589	1,252	624	50%	3,018	0	0		16.6%

Data source: UCSD admissions database.

CAP Members receive 2 for 1 admission Call for Expo Judges

1:30 p.m. REGISTRATION

Price Center (Level 2 in front of the East Ballroom)

2:00 p.m. - 4:30 p.m. POSTER SESSION

Price Center West Ballroom

200+ Graduate Students Display their Research Results

2:30 p.m. - 4:30 p.m. FACULTY PRESENTATIONS

Price Center Forum (4th Floor)

4:30 p.m. - 6:00 p.m. NETWORKING RECEPTION

Price Center East Ballroom

Network with faculty, students and industry partners

Master of Advanced Study Updates



Mark your calendars: MAS Info Session – March 19, 2014 @ 5:00pm

On campus – reserved parking

Please help promote and distribute information at your organizations.
CAP will email flyers or pick up some tonight



Now accepting applications:

Architecture-Based Enterprise Systems Engineering (AESE)

Wireless Embedded Systems (WES)

Medical Device Engineering (MDE)



Launching NEW MAS in Data Science and Engineering Fall 2014*

*Pending UCOP approval

Meet the new Team Internship Program (TIP) Manager



Loren Metzger

Brings a wealth of engineering recruiting experience to the Jacobs School

As the TIP manager, Loren:

- **Assists companies with defining TIP projects**
- **Advertises, screens, and helps select team members**
- **Trains interns in leadership and team engineering**
- **lemetzger@ucsd.edu**

Meet the new Corporate Affiliates Program Assistant



Luciana Xavier

Brings top organizational, analytical thinking, and great customer service skills

- Assists with all CAP events for members
- Logistical genius for visits to campus by Corporate Partners
- Holds a Masters Degree in Irish Studies, begorrah!
- capassistant@eng.ucsd.edu

Team Internship Program (TIP)

Call for Projects: Summer 2014!

Stay ahead of the competition by posting your project descriptions now.

These companies have already posted projects:





CAP Business:



Dates to Remember:

Friday, February 22, 2014

Thursday, April 17, 2014

Thursday, June 5, 2014

Thursday, October 2, 2014

DECaF (Disciplines in Engineering Career Fair)

Research Expo

CAP Executive Board Meeting

CAP Executive Board Meeting



Thank you CAP Executive Board



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