

UC San Diego

JACOBS SCHOOL OF ENGINEERING

IDEA ENGINEERING STUDENT CENTER

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INSIDE THIS ISSUE

New Faces at IDEA	1
Envision HS Conference	2
CAMP Research Symposium	3
Diversity Award Recipients	4
TESC Event Highlights	5
Welcome WIC and oSTEM	6

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idea *engineering student center* **Introducing...**



Dr. Karen Christman

Associate Dean for Students, Jacobs School of Engineering

Dr. Christman joined the Department of Bioengineering in 2007 and is a member of the Institute of Engineering in Medicine at UC San Diego. Her lab, which is housed in the Sanford Consortium for Regenerative Medicine, focuses on developing novel biomaterials for tissue engineering and regenerative medicine applications, and has a strong translational focus with the main goal of developing minimally invasive therapies for cardiovascular disease.

Dr. Christman has been active in the Bioengineering Department, Jacobs School, and Campus-wide on education, research, and diversity committees. As the Associate Dean for Students she plans to expand efforts in improving diversity, student retention, and time to degree.



Jessica Baldis

Academic Success Coordinator, IDEA Engineering Student Center

Jessica is a Wisconsin native, having completed her Bachelors degree in Psychology and Anthropology at University of Wisconsin-Madison. She then went on to University of Washington-Seattle to complete her Masters degree in Engineering. Jessica comes to the IDEA Engineering Student Center with experience in academia as a Teaching and Research Assistant and Instructional Curriculum Writer, as well as experience working in industry as an Instructional Designer and Project

Manager. She is excited to be the new Academic Success Coordinator at the IDEA Engineering Student Center. Jessica is responsible for facilitating programs that foster proactive academic engagement of undergraduate engineering students and academic services that emphasize student persistence, including the IDEA Engineering Student Center's Summer Engineering Institute, Engineering Learning Communities, and specialized workshops on succeeding in engineering.

ENVISION 2017

8th annual high school engineering conference by the Society of Women Engineers at UC San Diego.



2017 CAMP Statewide Research Symposium

Congratulations to our IDEA Scholars Jose and Rachel for successfully presenting their research at the 2017 CAMP Statewide Research Symposium, which was held at UC Irvine. CAMP-NSF is dedicated to UC undergraduate achievement in STEM. Faculty mentored research experience is the cornerstone, providing the preparation and impetus for graduate studies. UC faculty assert that creative research is one of the best ways to prepare students for persistence toward the B.S. degree and success in graduate school. CAMP efforts affirm that aspiring scientists and engineers are best developed by scientists and engineers serving as mentors who exhibit and expect scholarly excellence.



Photo credit: Jacqueline Azize-Brewer

JOSE RICARDO RUEDA | Biongeneering | Soph.
Special Merit in Research Award
Physical Sciences & Engineering

BIOCHEMICAL REGULATION OF PRG4 GENE
EXPRESSION AND SECRETION IN BOVINE
CARTILAGE EXPLANTS

Faculty: Professor Robert L. Sah



Photo credit: Gilberto Cardenas

RACHEL MILLER | NanoEgineering | Junior
Honorable Mention

Physical Sciences & Engineering

THE LANGUAGE OF GLOVE: LOW-POWER,
FLEXIBLE AND STRETCHABLE WIRELESS
GESTURE DECODER

Faculty: Professor Darren Lipomi

congratulations!

FACULTY SPOTLIGHT

Equal Opportunity/Affirmative Action and Diversity Award Recipients

This year, the annual Equal Opportunity/ Affirmative Action and Diversity Awards Program honored three faculty members from the Jacobs School of Engineering, who work very closely with the IDEA Engineering Student Center, for making outstanding contributions to diversity, equal opportunity, and affirmative action at UC San Diego.

Dr Lipomi and Dr Alvarado are members of the IDEA Faculty Advisory Board, and the IDEA Engineering Student Center worked very closely with Dr Cosman in her recent role as Associate Dean for Students at the Jacobs School of Engineering

University-wide individual recipients:

Professor Christine J. Alvarado

Professor Pamela C. Cosman

You may view videos of Dr. Alvarado and Dr. Cosman at goo.gl/t2t3rn

Vice Chancellor recipient:

Professor Darren J. Lipomi - Vice Chancellor Academic Affairs



Christine Alvarado

*Computer Science &
Engineering*



Pamela Cosman

*Electrical & Computer
Engineering*



Darren Lipomi

NanoEngineering

TESC SPOTLIGHT

TRITON ENGINEERING
STUDENT COUNCIL



DECAF 2017

DECaf 2017 served 2000+ undergraduate and graduate students in search of job and internship opportunities. The event was held earlier than previous years as the industry hiring cycle shifts earlier and earlier in the year. As one of UC San Diego's longest running career fairs at 18 years, nearly 90 industry partners have come to recognize the value and connections they make with our best and brightest engineers. Stay tuned to new developments for professional development from TESC in Fall 2017! Read more at tinyurl.com/tescdecap2017



TESC DATE NIGHT

Students from all over UC San Diego came out to participate in the 7th annual Triton Engineering Student Council Date Night for charity. The event featured our wonderful participants auctioning themselves off on dates, services offered, and volunteering to be pied, with hilarious emceeing from TESC's very own VP External Yacoub Oulad Daoud. Some of the services offered ranged from helping one fix their car or bike, to personalized coaching to help with Computer Science job interviews. All donations went to Reality Changers. Read more at tinyurl.com/tescdatenight2017



ENSPIRE 2017

Enspire took place Thursday, March 2nd. 500 middle school students from all around San Diego spent the day exploring parts of UC San Diego, learning about different engineering majors, and seeing cool projects made by our very own Jacobs School of Engineering students. One of the biggest highlights was when student participated in an egg drop that challenged them to create a device that would cradle and protect the egg once it was dropped from the top of EBU III! Definitely an exciting day!



Matching Funds 2016- 2017 cycle saw the most proposals ever submitted. Twenty project teams represent all 6 departments in the Jacobs School of Engineering. Awards from the Dean totalled \$58,000 for teams to develop, test, and compete as representatives for UC San Diego. Newcomers, Yonder Dynamics and the ESW Solar Car Team, will be competing in the University Rover Challenge and the Formula Sun Grand Prix, respectively. Connect with the teams online to follow their progress!

WELCOME TO THE FAMILY!

Two engineering student organizations have joined the diversity engineering student org family this year at the IDEA Engineering Student Center! Women in Computing (WIC) and the inaugural student chapter of Out in Science, Technology, Engineering, and Mathematics (oSTEM). We're so excited to see our diversity engineering student leaders grow and look forward to all the great work they will be doing to serve particular needs within our engineering and STEM community at UC San Diego. Thank you to the faculty advisors for their support!



Current President:

Lucy Chian, Computer Science: Bioinformatics

Faculty Advisor:

Dr. Christine Alvarado, Computer Science & Engineering

Staff Advisor:

Victor Betts, IDEA Engineering Student Center

We're coders and engineers - both women and men - who support the female presence in computing. We run events, from tech talks to socials, and provide opportunities for female engineers to connect and succeed. We bring in industry professionals to hold tech talks and workshops, including all-female engineer panels. We hold a beginner's programming competition every quarter, restricted to students who have yet to take upper division classes. To learn more about WIC, visit their website at wic.ucsd.edu.



Current President:

Matt Jaconetta, Bioengineering: BioSystems

Faculty Advisor:

Dr. Jesse Jokerst, NanoEngineering

Staff Advisor:

Victor Betts, IDEA Engineering Student Center

Out in Science, Technology, Engineering, and Mathematics (oSTEM) is a national society dedicated to educating and fostering leadership for LGBTQA communities in the STEM fields. The national society has been built by students, for students. The goals of oSTEM are to educate, empower, and engage a diverse community; to identify, address, and advocate for the needs of LGBTQA students in the STEM fields; and to fulfill these needs through mentorship connections, networking opportunities, strategic collaborations, and professional/leadership development. To learn more about oSTEM, visit their website at ostem.org.

Special thank you to the following people for supporting oSTEM at UC San Diego:

Dr. Olivia Graeve (Mechanical & Aerospace Engineering), Victor Betts (IDEA Engineering Student Center), Dr. Jesse Jokerst (NanoEngineering), Shaun Travers (Director of the LGBT Resource Center), Dr. James Nieh (Biological Sciences), Dr. Daniel Rogalski (Physical Sciences)

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