

Volume 1 | Issue 3 | Winter 2015

QUARTERLY NEWSLETTER

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WAY TO GO

4.0!

CONGRATULATIONS to the freshmen IDEA Scholars who obtained a 4.0 GPA in their first quarter!

1. Henry Lee | Bioengineering: Biotechnology

"Summer PrEP and IDEA Scholars helped me transition into college by providing me a community of support that I could depend on and advice on how to succeed."

2. Niels Griedel | Aerospace Engineering

3. Richard Miller | NanoEngineering

4. Paula Quach | Computer Science

"Attending Summer PrEP and participating in the IDEA Scholars program has introduced me to a wide variety of people and resources that allowed me to succeed in my first quarter at UCSD. My best friends and best study partners are people that I met through the IDEA program."

"Summer PrEP and the IDEA Scholars Program has given me a group of friends and familiar faces for me to talk to and rely on in college. I don't feel alone or lost because I have a lot of people supporting me."

For more info on the IDEA Scholars Program, visit idea.ucsd.edu/scholars


T.E.A.M. ViaSat Tour

Transfer Engineering Academic Mentorship Program

In December 2014 the IDEA-T.E.A.M. students toured ViaSat and met with ViaSat engineers!

For more information on the T.E.A.M. Program at the IDEA Student Center visit idea.ucsd.edu/team

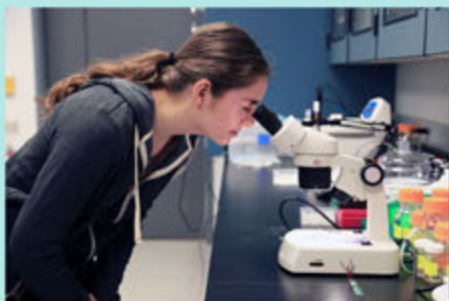




ENVISION 2015

Envision is a free all-day program that exposes high school girls to pursue a future in engineering and computer science. The event featured tours of engineering laboratories, computer programming activities, & robot building. This year, SWE hosted 200 girls in efforts to empower and encourage them to achieve their full potentials by being fully informed and pursuing a higher education.

Saturday | 2.21.2015 | Society of Women Engineers | UC San Diego



DECaF PREP 2015

The Society of Hispanic Professional Engineers and the IDEA Student Center coordinated this year's annual DECaf Prep. The program consisted of a Recruiters Panel and Break Out Groups where actual DECaf recruiters shared their insights on how to best approach and communicate with recruiters. Participating recruiters came from Cisco, Hewlett Packard, Intel, and Sandia National Laboratories. Thank you to all the recruiters and engineering students who participated.



STUDENT SPOTLIGHT

EDUARDO VALLE
Chemical Engineering
Senior

Eduardo is currently a Chemical Engineering undergraduate senior and working in Dr. Lipomi's lab. Besides getting ready to graduate in Spring 2015, Eduardo has participated in the McNair Program at UC San Diego, has two publications, and thus far, has been accepted into Ph.D. programs at both Stanford and Caltech. He is waiting to hear from MIT & Berkeley.

UC San Diego

Eduardo Valle

A photograph of Dr. Darren Lipomi, a man with dark hair, wearing clear safety glasses and a bright blue lab coat over a light blue polo shirt. He is smiling and looking towards the camera. The background is a laboratory with various pieces of equipment, including a fume hood and shelves with boxes and containers. The lighting is bright and even.

FACULTY SPOTLIGHT

DR. DARREN LIPOMI
NanoEngineering

IDEA Student Center's Faculty Board Member

Engaging in research as an undergraduate is an indispensable way for students to gain experience as independent scientists and engineers. Documented research experience is almost a prerequisite for students to gain admittance to the top PhD programs, and is regarded as a significant advantage for jobs in industry. As an undergraduate at Boston University, I worked for two academic years and three summers in the labs of one of the faculty members in the chemistry department. I got my own project and even my own bench space, though I was mentored very closely by a senior graduate student. It was my early immersion in the lab that convinced me to seek a career in research, and to train others to be skeptical scientists and effective engineers. I mentored undergraduate students throughout my PhD at Harvard and my postdoctoral fellowship at Stanford.

In my current laboratory at UCSD, undergraduate researchers are the lynchpin of my group. They work closely with graduate students and postdocs, and become proficient in many laboratory techniques and instruments (through frequent trips to the Nano3 cleanroom!) Undergraduates have collected approximately fifty percent of the raw data that eventually made it into our publications, and nearly every undergraduate researcher has earned authorship on at least one publication (one student is an author on five!) Based in part on their experiences in my group, former undergraduates have received competitive fellowships from the National Science Foundation and the Department of Defense to support their graduate studies, and others have earned positions at prestigious companies (e.g., Schlumberger). Undergraduate students also serve as liaisons in our outreach activities through the IDEA Center and other organizations.

ENGINEERING EXPLORATIONS

On Saturday December 6, 2014, the IDEA Student Center hosted *Engineering Explorations*, an annual outreach event for local high school students to come to campus and learn more about engineering and applying to college. Students had the opportunity to go on lab tours, interact with engineering students, participate in hands-on activities, and watch demos from various engineering organizations.



QUALCOMM DECA CONFERENCE

DIVERSITY ENGINEERING COLLEGIATE ALIGNMENT

THREE

UC SAN DIEGO ENGINEERING STUDENTS WERE SELECTED TO ATTEND THE QUALCOMM DECA CONFERENCE IN JANUARY 2015

ANTONIO MURILLO
ATL ARREDONDO
JORGE GOMEZ



DECA IS A TWO-DAY CONFERENCE THAT BRINGS TOGETHER TOP STUDENTS FROM ACROSS THE COUNTRY TO PARTICIPATE IN WORKSHOPS, NETWORK WITH QUALCOMM EMPLOYEES, GAIN INTERVIEW AND CAREER ADVICE, AND LEARN ABOUT THE WIRELESS INDUSTRY. IT'S AN OPPORTUNITY TO EXPERIENCE AND APPLY WHAT IS LEARNED IN THE CLASSROOM IN A REAL WORLD SETTING. WHILE GETTING EXPOSED TO TECHNOLOGIES WE CREATE THAT HELP CONNECT PEOPLE AROUND THE WORLD. IMPROVE EDUCATION, TRANSFORM HEALTHCARE AND ENHANCE THE LIVES OF ALL WHO USE IT.

Solar Turbines Shadow Day

IDEA Scholars & T.E.A.M. Students Visit Solar Turbine

On November 2014, Solar Turbines hosted engineering students from UC San Diego, San Diego State University, and the University of San Diego for their Shado Day.

The seven UC San Diego engineering students in attendance were Philip Narveson, Ryan Collins, Edwin Ramon, Joanne Ly, Alexandra Hill, Lina Lopez, and Liu Yuanyuan (attendees were either from the T.E.A.M. Program or IDEA Scholars). The students spent a full-day at Solar Turbines viewing labs, research and other site projects. The students were broken into small clusters according to their areas of interest and were matched with a Solar Turbine engineer for the day.

UC San Diego

Jacobs School of Engineering

IDEA Student Center

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Photos: (Top row) Engineering Explorations, Envision, (Bottom row) Dr. Lipomi & Eduardo in lab, Qualcomm DECA Conference wall art, Envision

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