Do you have flashbacks of San Diego?
Do you have fond memories of COSMOS?
Do you contemplate the wonderful times of learning and fun here at UCSD?
If your answer is YES, YES, & YES!
Than you are PERFECT to be a COSMOS Student Ambassador!

If you are interested in holding a meeting at your school to share your experience email us at cosmos@ucsd.edu for the 2016 student ambassador packet, which includes flyers and 2016 information.

STOP BY & SAY HI!
To the COSMOS Team

Cosmos Offices are now located on the first floor of Jacobs Hall in the Gordon Center/Von Liebeg Center.
WHAT’S HAPPENING AT UCSD?
Check out what the cluster instructors have been up to!

UC San Diego’s efforts to produce innovative and sustainable solutions to the world’s environmental problems have resulted in a partnership with the region’s surfing industry to create the world’s first algae-based, sustainable surfboard. Students from the laboratories of Michael Burkart, a professor of chemistry and biochemistry, Robert “Skip” Pomeroy, a chemistry instructor who helps students recycle waste oil into a biodiesel that powers some UC San Diego buses, first determined how to chemically change the oil obtained from laboratory algae into different kinds of “polyols.” Mixed with a catalyst and silicates in the right proportions, these polyols expand into a foam-like substance that hardens into the polyurethane that forms a surfboard’s core. Although the board’s core is made from algae, it is pure white and indistinguishable from most plain petroleum-based surfboards. That’s because the oil from algae, like soybean or safflower oils, is clear. The algae surfboard not only represents the kind of collaboration that is the hallmark of UC San Diego, but the fusion of biotechnology, surfing and environmentally conscious thinking that has made the La Jolla campus and its environs such a desirable place to work and live for scientists, innovators and those who cherish the coastal environment.

QI research scientist and National Geographic Emerging Explorer Albert Lin, UC San Diego Professor of Computer Science Ryan Kastner and QI Principal Design Engineer Curt Schurgers recently returned from the Mesoamerican archaeological site – formerly an ancient Maya city – known as El Zotz. Their research into the early iconography of buried temples, as well as the footprint the ancient city had on the landscape, is focused on building a better understanding of how an ancient dynasty established itself as a seat of power within the complex milieu of ancient Maya city-states. The Maya, for example, lacked wheeled vehicles, beasts of burden or easily traveled rivers, but developed an entirely unique written language using more than 800 hieroglyphs and built reservoirs and extensive road networks. They created a dental technique for drilling precise holes into teeth and were also – to use a phrase from the exhibition – “relentless renovators,” layering new buildings over old ones.

San Diego State University is one of the 2014-15 winners of the Challenge Fund for Innovation in Journalism Education. Kevin Robinson, San Diego State University, Lecturer, Department of Geologival Sciences in the College of Sciences was on the team with the winning project: “WHAT’S IN THE AIR? Investigating Air Quality in San Diego: A Live News Experiment in the Power of Sensor Journalism in Covering the Environment.” The cross-disciplinary project partnered journalism and geology students with a non-profit news organization to examine air quality in San Diego using electronic sensors. The data will be the foundation of a multimedia, mobile-ready website that will share results with and engage the community. Success would definitely pave the wave for other live news experiments by showcasing a credible product and proving the value in the community of the work.

http://ucsdnews.ucsd.edu/feature/surfingintoagreenerfuture

http://ucsdnews.ucsd.edu/pressrelease/cisa3_archaeologist_advises_unprecedented_exhibition_of_maya_artifacts

The University of California at San Diego has received a $5.2 million grant from the National Science Foundation (NSF) to run the world's largest outdoor shake table for the next five years. The table, which can carry structures weighing up to 2,000 tons, can replicate the ground motions of most of the world's largest earthquakes. It has been used since 2004 as a resource for NSF-funded researchers from around the nation to test innovative technologies and designs for seismic safety of new buildings and retrofitting techniques for existing structures. The grant, awarded after a highly competitive process by NSF’s Natural Hazards Engineering Research Infrastructure (NHERI) Program, will provide funding for the facility's operation and maintenance. “The earthquake shake table is a unique and valuable research facility for the people of California, the nation and the world,” said Chancellor Pradeep K. Khosla. “The continued stream of research projects on the table will lead to safer buildings, bridges and renewable-energy infrastructure, advancing UC San Diego’s mission to engage in work that benefits humankind.” . . . “The table also will open numerous educational opportunities, welcoming more than 500 middle- and high-school students every quarter,” said Lelli Van Den Einde, co-principal investigator on the grant and a teaching professor at the Jacobs School. These students will learn about seismic safety at their schools, then test structures they build out on the table.

Congratulations to our prestigious Alumni for their outstanding accomplishments!

Max Novick  
— COSMOS Alumni 2012  
John Hopkins University  
Mechanical Engineering  
Technology grant recipient for the development of a campus tour guide robot.

Sheena-Grace Cardoza  
— COSMOS Alumni 2012  
PIMA Medical Insitute  
Health Care Administration  
Gates Millenium Scholar

Albert Hu  
— COSMOS Alumni 2014  
UC Berkeley  
Computer Science  
Regents Scholar

Angela Zhang  
— COSMOS Alumni 2014  
UC San Diego  
Computer Science  
US Presidential Scholar Award

Belen Hernandez  
— COSMOS Alumni 2014  
UC San Diego  
Environmental Systems  
Chancellor’s Associate Program

Joey Uy  
— COSMOS Alumni 2014  
UC San Diego  
Chancellor’s Associate Program

Mark Ansell  
— COSMOS Alumni 2014  
UC Berkeley  
Mechanical Engineer  
Elks Most Valuable Student Scholarship Winner & #1 male in the nation

Mason Hargrave  
— COSMOS Alumni 2014  
UC Santa Cruz  
Physics  
Regents Scholar Honors Program
2015 College & High School Graduates

Check out what Colleges/Universities your fellow alumni have graduated from or are going to!

**COSMOS 2010**
- Alexis - San Diego State University
- Akila - UC San Diego
- Albert - Stanford University
- Alexander - UC San Diego
- Anand - UC Berkeley
- Andrew - UC Los Angeles
- Ankur - UC San Diego
- Anusha - UC San Diego
- Ashley - CSU Long Beach
- Behnam - UC San Diego
- Cedric - University of Southern CA
- Cesar - UC Riverside
- Charles - UC Santa Barbara
- Christina - University of Southern CA
- Christopher - UC Berkeley
- Christopher - Cal Tech
- Cody - Cal Poly SLO
- Daniel - UC Berkeley
- David - University of the Pacific
- David - UC Riverside
- Dennis - UC Los Angeles
- Derek - UC Berkeley
- Dylan - Cal Poly
- Emily - UC Los Angeles
- Grace - Duke University
- Hope - UC San Diego
- Ian - Villas-Hulman Institute of Tech
- James - Cornell University
- Jennifer - UC Berkeley
- Jenny - Mass Institute of Tech
- Jessica - UC Los Angeles
- Jonathon - UC Los Angeles
- Joseph - UC San Diego
- Julie - UC Davis
- Justin - UC Los Angeles
- Kami - UC San Diego
- Karen - UC Davis
- Kevin - Pomona College
- Kevin - Cornell University
- Lisa - Stanford University
- Matthew - UC Los Angeles
- Michael - Cal Poly SLO
- Ruby - UC Los Angeles
- Russyan Mark - Brown University
- Shalini - UC Los Angeles
- Shweta - UC Davis
- Stephanie - Cuyamaca College
- Steven - University of San Diego
- Tai Ho - UC San Diego
- Timothy - UC San Diego
- Victor - John Hopkins University
- Yvonna - Scripps College

**COSMOS 2011**
- Dana - Whittier College
- Pedro - SD City College

**COSMOS 2012**
- Elliot - UC Berkeley
- Julia - Cal Institute of Tech
- Meera - UC Berkeley
- Michael - UC Los Angeles
- Rayyan - UC Berkeley
- Robert - UC Berkeley
- Sonia - Stanford University

**COSMOS 2013**
- Amanda - UC Los Angeles
- Amorie - UC Merced
- Andres - UC Berkeley
- Andrew - UC Berkeley
- Bionka - UC Berkeley
- Brandon - UC Berkeley
- Brian - UC San Diego
- Cameron - University of Michigan
- Charlotte - UC Los Angeles
- Cheryl - San Diego State University
- Claire - Carnegie Melon University
- Clarence - UC Berkeley
- Concepcion - UC Irvine
- Diego - Tufts University
- Dong Hyeok - UC Los Angeles
- Effie - Stanford University
- Emily - Texas A&M
- Garima - UC Berkeley
- Hector - UC Berkeley
- James - Northwestern University
- Joey - UC San Diego
- Kenneth - UC Irvine
- Melissa - UC San Diego
- Michelle - UC San Diego
- Michelle - University of Pittsburgh
- Oscar - UC Los Angeles
- Paul - UC Los Angeles
- Po - Stanford University
- Rachel - Carnegie Melon University
- Selina - Northeastern University
- Shushanik - UC Los Angeles
- Sonika - University of Southern CA
- Thao - UC Berkeley

**COSMOS 2014**
- Albert - UC Berkeley
- Allen - UC San Diego
- Ana Karen - UC Irvine
- Andrew - UC Berkeley
- Angela - UC San Diego
- Ann-Kathrin - Georgetown
- Ashley - UC San Diego
- Belen - UC San Diego
- Benjamin - UC Berkeley
- Bill - UC Berkeley
- Brandon - UC Los Angeles
- Brendan - UC Berkeley
- Brenda - UC Berkeley
- Bryan - Northeastern University
- Calvin - UC Los Angeles
- Chetan - Massachusetts Institute of Tech
- Christopher - UC Los Angeles
- Daniel - UC Los Angeles
- Daniel - UC San Diego
- Dante - UC Berkeley
- Daphne - UC Berkeley
- Diana - UC San Diego
- Do Hyun - Harvard University
- Emma - UC Los Angeles
- Erik - Northwestern University
- Farrah - UC San Diego
- Haley - UC Los Angeles
- Hamad - UC Los Angeles
- Jennifer - UC San Diego
- Jake - UC Los Angeles
- Jamie - Massachusetts Institute of Tech
- Jeannie - UC Los Angeles
- Jessica - University of Chicago
- Justin - New York University
- Kaz - UC Davis
- Kelvin - UC Los Angeles
- Kristin - UC San Diego
- Kristin - UC San Diego
- Laura - Purdue University
- Leora - Duke University
- Liliana - UC Irvine
- Lisa - UC Irvine
- Mark - UC Berkeley
- Mason - UC Santa Cruz
- Matthew - UC San Diego
- Megan - UC Santa Cruz
- Melissa - UC Berkeley
- Melissa - UC San Diego
- Michael - Lehigh University
- Michelle - UC Berkeley
- Monica - Cal Poly
- Natalie - UC Los Angeles
- Nicholas - UC Berkeley
- Nick - Cal Poly Slo
- Nikita - UC Berkeley
- Orianna - Amherst College
- Rhea - UC Berkeley
- Roxana - UC Berkeley
- Sam - UC San Diego
- Swetha - University of Southern CA
- Tiffany - Carnegie Mellon University
- Tram - UC Los Angeles
- Victor - UC Los Angeles
- Victoria - Columbia University
- William - Duke University

**DON’T SEE YOUR NAME?**

Email us at cosmos@ucsd.edu or Message us on Facebook to let us know where you went to school!
Alumni Testimonials

Christopher, COSMOS 2010

COSMOS was an awesome experience I still reflect back on. It taught me a lot about what college would be like and I met some amazing people. I hope COSMOS continues to inspire and teach future students.

Jenny, COSMOS 2011

Cosmos played a big part in shaping my career goals and interests. And it was ultimately a defining factor for why I chose to attend UCSD. I'm forever grateful for the opportunities that COSMOS gave me.

Michael, COSMOS 2012

COSMOS is where I first truly felt like I fit in. It gave me a lot of confidence in my ability to make friends with the many awesome people in college. The camp has a ton of amazing things to do in four weeks. Believe it or not, this includes the cool science that you learn in the classroom. I honestly might not be a chemical engineering major now if I didn't study biodiesel (cluster 6 represented!) over that summer.

Amorie, COSMOS 2013

COSMOS was the best and most life-changing experience and I look back with great satisfaction at the memories and friendships I made. Cluster 6 taught me so much and I was able to bring what I learned back into the classroom at my high school. This program and the wonderful staff who made this experience possible made such an impact on my academic career and better prepared me for what lies ahead. Thank you UCSD Cosmos!!

Mark, COSMOS 2014

COSMOS inspired me to work harder and be my best. It showed me that if I set a goal for myself, I can achieve it. I am the Elks Most Valuable Student Scholarship Winner and #1 male in the nation, and I honestly believe these accomplishments would not have been achieved without the experience and drive COSMOS gave me. And of course, it was extremely fun too.

Robert, COSMOS 2015

To me COSMOS is one of the most amazing things that has ever happened. I say this because COSMOS helped me realize that my dream to become a computer scientist is truly what I want to do as a career. I realized this because during COSMOS I always wanted to go back in the lab and work on my project or learn from another guest lecture. Going to COSMOS not only helped me realize my passion, but it has motivated me to work harder and be more outgoing like never before.

I want to spread the COSMOS name at my high school because there are so many talented and hardworking students at my high school at my high school that have interest in science and math fields, but don't know what they would actually do in those fields. I am sure that COSMOS can help these students gain skills and inspiration from the cluster they chose and COSMOS as a whole. I believe that giving students a chance to learn from professors, work with dedicated peers, and live on a UC campus will give them priceless memories and valuable exposure to college life.

It all starts with You!

Share your stories, with your friends and family so another student can have the same great COSMOS experience!
2015 Wrap-up

Want to be featured? Send us your photos, accomplishments, or stories for the next issue!

Student Spotlight

Victoria Wang, COSMOS 2014 Alumn

had an article published on EngineerGirl about her COSMOS Experience.

“I’m not an engineer and I don’t think I can ever be one,” said the girl sitting next to me. It was the first day of COSMOS, a Californian State Funded STEM summer program, and we had both drifted towards the same station. . . but just being at COSMOS, as part of the Biodiesel from Renewable Sources Cluster, I was hoping to change this perception that engineers are supposed to be male, while also pursuing my passions for green energy, environmental science and inventing.

To read the entire article, visit: http://www.engineergirl.org/GetThere/HowtoGetThere/23195.aspx

Where’s Dr. Tu?

Sonika and Pratima (COSMOS 2013 Alumni) spotted Dr. Tu at USC!
Where will he be spotted next?

ALUMNI SURVEY

Complete the alumni survey at: http://bit.ly/cosmosalumnisurvey

Contact us: cosmos@ucsd.edu
Visit our website: cosmos.ucsd.edu

www.facebook.com/ucsdcosmos
https://www.youtube.com/user/cosmosucsd

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www.facebook.com/ucsdcosmos
https://www.youtube.com/user/cosmosucsd