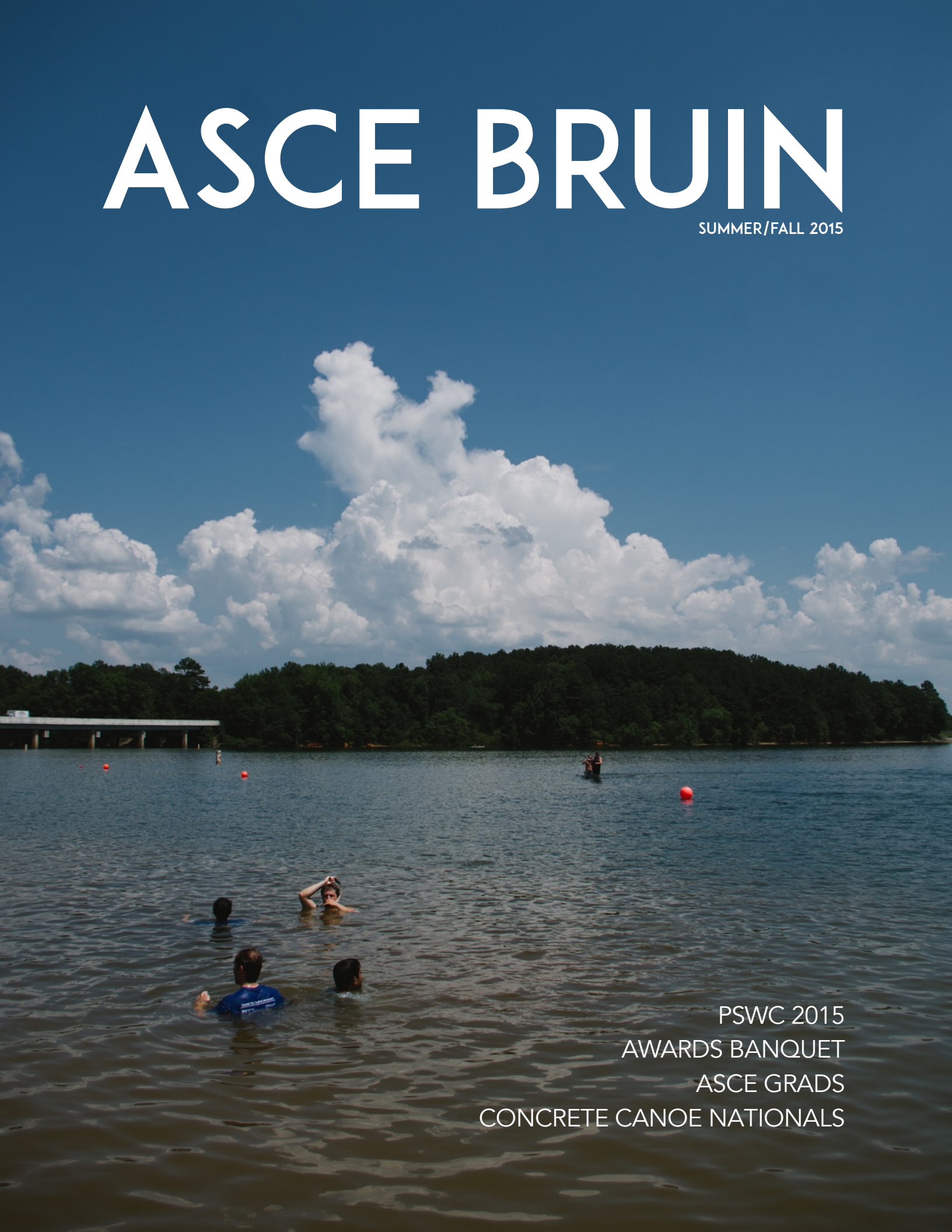
ASCE BRUIN

SUMMER/FALL 2015



PSWC 2015
AWARDS BANQUET
ASCE GRADS
CONCRETE CANOE NATIONALS

CONTACT US

ASCE BRUIN NEWSLETTER
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UCLA Student Chapter

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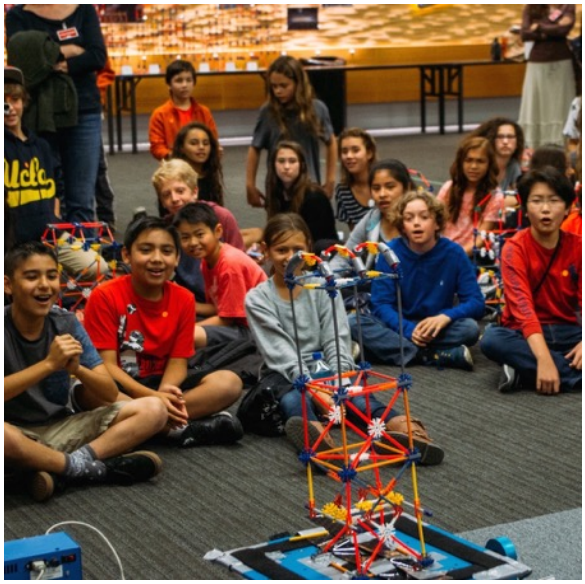
BRUINS
ARCTURUS




UCLA
BRUINS
CLASS OF 2015

WELCOME

Dear Alumni, Faculty, Students, and Sponsors,

I take great pleasure in being able to present our Summer/Fall 2015 Edition of *ASCE Bruin* to you. We just wrapped up a historic year for our student chapter, receiving both regional and national recognitions for our projects and chapter. As mentioned in the Spring Edition, our student chapter was recognized as the Outstanding Chapter of the Year in the ASCE LA Section. On top of this, our chapter received a Certificate of Commendation from the national chapter of ASCE, which annually recognizes the top five percent of student chapters in the country. We are very proud of this accomplishment as it shows the level of excellence our chapter continually strives for.

At the Pacific Southwest Regional Conference (PSWC) held in Tucson, Arizona in early April, we placed second out of 18 schools. This was our best overall finish since we placed second in 2010, and is a testament to the hard work of our project managers, directors, and members. Our Concrete Canoe, GeoWall, and Concrete Sports teams placed second at PSWC, with Concrete Canoe's finish qualifying them for Nationals, where they placed in the top five in three different categories. Overall, they went on to finish 10th in the country. Speaking of national finishes, our GeoWall team placed sixth at the National Geo-Congress and our Seismic Design team placed second at EERI Nationals. That is three top-10 National finishes in one year, the most we have ever had. This is an incredible accomplishment and one that our project leaders will look to build upon during the upcoming year.

Along with these top finishes, we experienced fantastic growth as an organization. Our Seismic Outreach program has grown tremendously, as the K-12 student participation has over doubled in just one year. We had a 12-percent membership increase this year, and many of our members became more heavily involved. Our events continue to be very well attended, more and more people are coming out and getting more involved, and, of course, everybody knows #civilshavemorefun. It is a great time to be involved with ASCE at UCLA.

This past spring, an extremely passionate, dedicated, and inspiring group of seniors graduated from our school and organization. They did so much for our organization over the past five years and have helped to shape what it is today. We will miss having them around, but will take their advice and guidance with us as we continue to improve as an organization.

Thank you to our alumni and advisors, the UCLA Civil and Environmental Engineering Department, and our corporate sponsors for their constant support and assistance; without them, it would not be possible to accomplish all that we have and all that we hope to in the future.

I could not be more excited for the upcoming year. We are proud of all that we did this past year; the progress that we have made is just a stepping stone towards what we hope and plan to accomplish going forward.

If you ever have any questions about anything regarding ASCE at UCLA, or wish to get more involved, please do not hesitate to reach out to me or any of our officers. Feel free to contact me directly at zmcfann@ucla.edu.

All the best,

ZACHARY McFANN
President

MEMBERSHIP

RYAN WORLEY

Thank you for being a part of our ASCE student chapter for the 2014-2015 academic year. We hope that you have benefited from the plethora of professional and social opportunities that have been offered throughout the year.

At the end of Spring Quarter, we have 227 active members. This number exceeds our membership count from last year by 12 percent, showing our steady rise in popularity as a club.

After a great Winter Quarter of rigorous project work, we were able to keep the momentum rolling into Spring Quarter at the Pacific Southwest Conference. Six of our projects competed against those from other colleges in our region, including Cal Poly, USC, and UCSD. After everything was said and done, UCLA finished second out of 18 teams. This was a tremendous achievement and we want to thank everyone who participated in the projects, as your hard work contributed to our best conference finish in the past years!

Besides the conference, we had massive turnouts at all of our on-campus events. We are grateful for the active participation in our professional events and info sessions allow us to strengthen our ties with the corporate world and get those internships and jobs for the summer! We also appreciate the attendance at our various social gatherings like the end-of-the-year Awards Banquet and the Student-Professor Barbecue. They were immensely successful as almost 100 ASCE members were in attendance at each event. Considering all of this, it is safe to say we had a stellar Sprint Quarter.

Finally, we would once again like to extend our thanks to everyone involved in ASCE. You (the members) are the reason why ASCE at UCLA is so prosperous right now. Your membership is extremely important to us! It has been an honor to be your Membership Chair this year, and we look forward to seeing you all again in Fall 2015!

AWARDS BANQUET ASCE members celebrate another year of fun, hard work, and great achievements.

INFO SESSIONS & WORKSHOPS

ABBY CHUNG & MATT STEWART

ASCE at UCLA wrapped up an exciting year of professional development opportunities by hosting two information sessions and three technical workshops during Spring Quarter. Dozens of ASCE members were joined by students pursuing the environmental engineering minor at an information session with Kennedy/Jenks. It was an excellent opportunity for everyone to learn about careers in environmental and water consulting. Later in Spring Quarter, students learned about the groundbreaking of the California High Speed Rail project in Fresno. Many students were interested in learning about the project that will employ hundreds of civil engineers in the coming years.

ASCE at UCLA also hosted two student-led technical workshops and three construction management workshops this spring quarter. The student-led workshops included tutorials on AutoCAD and Google SketchUp that prepare our members for the projects in the upcoming year. In the construction management workshops, a team from Morley Builders covered topics like estimating, scheduling, and site logistics and then provided practice problems. These workshops were extremely beneficial to anyone interested in construction, especially members of the UCLA Construction Management project team who participate in the annual ASC Regions 6 & 7 competition. ASCE at UCLA greatly appreciates the professionals from Morley Builders's donation of their time and expertise and hopes to host more workshops this fall.

We are thrilled to host 15 civil engineering companies and agencies and 10 professional workshops during the 2014-2015 academic year. ASCE works hard to host a variety of events throughout the year to complement our members' classroom education with industry experience. ASCE at UCLA is looking forward to bringing an engaging slate of companies and workshops to members.

CALIFORNIA HIGH-SPEED RAIL INFO SESSION Designers sharing their plan of a thriving transportation network.

FIELD TRIPS

ABBY CHUNG

In Spring 2015, ASCE at UCLA took one last field trip before the school year wrapped up. We visited Simpson Strong-Tie, one of the largest suppliers of structural building products in the world and a leader in structural systems research, at its location in Riverside, California. The trip included a tour of its manufacturing and testing facility, in which its staff members performed a couple of material tests for us.

After the tour, Simpson Strong-Tie gave a presentation about its company and held a highly competitive game of Jeopardy in which the UCLA attendees competed against those from USC and Cal Poly Pomona, who were also in attendance on the tour and presentation.

Once again, UCLA dominated USC and came out on top, marking the conclusion of a successful year of field trips. ASCE at UCLA visited many interesting sites and companies this past year, and we cannot wait to see what is in store for the 2015-2016 year!

SIMPSON STRONG-TIE TOUR (RIGHT)
ASCE members exploring the Riverside facility.

JEOPARDY (BOTTOM)
UCLA team securing the win in the Jeopardy game.

OUTREACH

JONATHAN WIGMAN

This past quarter was very busy with PSWC kicking projects into high gear, but ASCE at UCLA still reached out to the community. We partnered with UCLA's Community Service Commission to host a booth that taught students about how bridges are built. The booth was named "Bruin Build a Bridge" and it guided kindergarten through fourth grade students through the construction of bridges using toothpicks and gumdrops. Designs varied from typical truss bridges to delightful arched bridges. Students thoroughly enjoyed testing their sweet and colorful bridges with leftover steel pieces, which were used as weights, from ASCE at UCLA's very own Steel Bridge project.

We also donated the doghouse that we built for PSWC to the Southern Arizona Humane Society. It had a memorable Hollywood theme that helped place third in the conference.

Finally, the Seismic Outreach program, which guides students through the planning, construction, and testing of an earthquake-resistant building, had its largest Finale event so far with about 250 students taking part in UCLA's very own Pauley Pavilion. Although the program is in its second year, it already has a bright future!

BRUIN BUILD A BRIDGE (LEFT) Student attendees learning about bridge testing.

CANDY BRIDGES (BOTTOM)
Participant building a bridge with toothpicks and gumdrops.

ATHLETICS

RYAN DUDLEY

Spring was another successful quarter for ASCE at UCLA athletics. Men's football, now in the second iteration of Kickin' Asphalt that won the intramural championship in the fall, had three wins and a single loss on the record due to an unavoidable forfeit as the date of its last game conflicted with the Awards Banquet. Nevertheless, it advanced to the semifinals. Our co-ed soccer team, Concrete Toes, dominated the regular season with a 3-0-1 record. The team lost in the semifinals only after a hard-fought game. With two teams advancing this far, Spring Quarter sets a new standard of excellence for ASCE Bruins.

SOCIAL

ARIEL SIEGEL

This past spring, our chapter continued many social traditions, while expanding on our events! After the completion of this year's PSWC, our chapter hosted and participated in many joint social events celebrating our successes as well as wrapping up the year and celebrating the many accomplishments of our graduating members. These events included a social at USC with its ASCE chapter, a laser tag event with the ASCE chapter from CSUN, an after-banquet celebration in which we acknowledged individual members that have been dedicated to the club throughout the year, and our annual beach bonfire at Dockweiler Beach. Our chapter, as a whole and socially, has had an amazing and successful year, and we cannot wait to see what the 2015-2016 school year brings!

LASER TAG
Fellow ASCE members getting ready for their first round of laser tag.

BEACH BONFIRE
ASCE Bruins enjoying the annual beach bonfire at Dockweiler Beach.

FAMILY

BLAKE WYATT

When SEAS get rough, sail with the mentorSHIP!

ASCE Mentorship closed out with a bang this past Spring Quarter! The second annual Family Games was held at Wilson Plaza. Our five families battled it out physically and mentally in Ultimate Frisbee, Gladiator, a Riff-Off and even Man-Jam, which is a dodgeball and KanJam mash up. There was a lot of chasing, foot-grabbing, harmonizing, and most importantly, laughter! After tallying up all the points, a winner for the year was crowned. This year's winner was the STORM Family! Congratulations to all of its members!

I would personally like to thank everyone who was involved in ASCE mentorship this year for making it run so strong for the second year! I look forward to seeing how mentorship grows under the new Mentorship Chair, Mr. Winston Boyce.

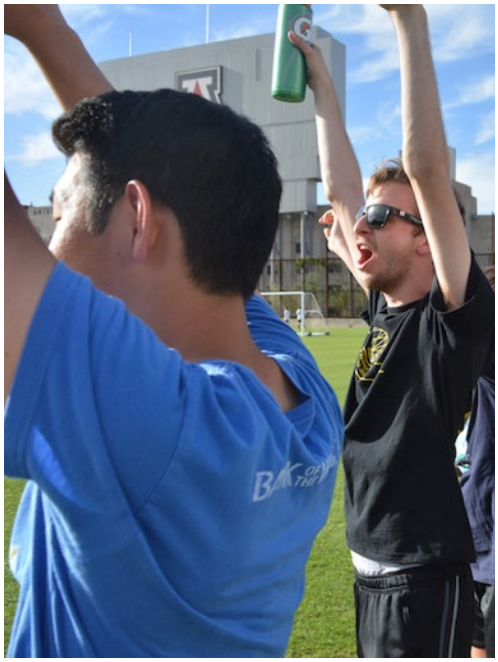
Winston is a fourth year civil engineer. He was previously ASCE's Athletics Director, and is well known as the most famous civil engineer on campus. With so much fame, he will surely lead the mentorship program to success.

If you were not in a family this year and are interested in getting a mentor or mentee, and benefitting from the social, professional, and educational programs offered by ASCE Mentorship, please join in Fall 2015!

ULTIMATE FRISBEE
Maxwell Armenta taking off for the mid-air catch.

GLADIATOR
Wayne Shen and Suraj Patel trying to grab each other's foot.


AECOM
BRUIN BORN
BRUIN BRED
BRUINS 'TIL THE
DAY WE DIE



PACIFIC SOUTHWEST CONFERENCE 2015

KEVIN NGUYEN

The Pacific Southwest Conference (PSWC) is one of our biggest ASCE events of the year. Every spring, it brings together 18 universities in the southwest region to participate in three days of competitions and social activities.

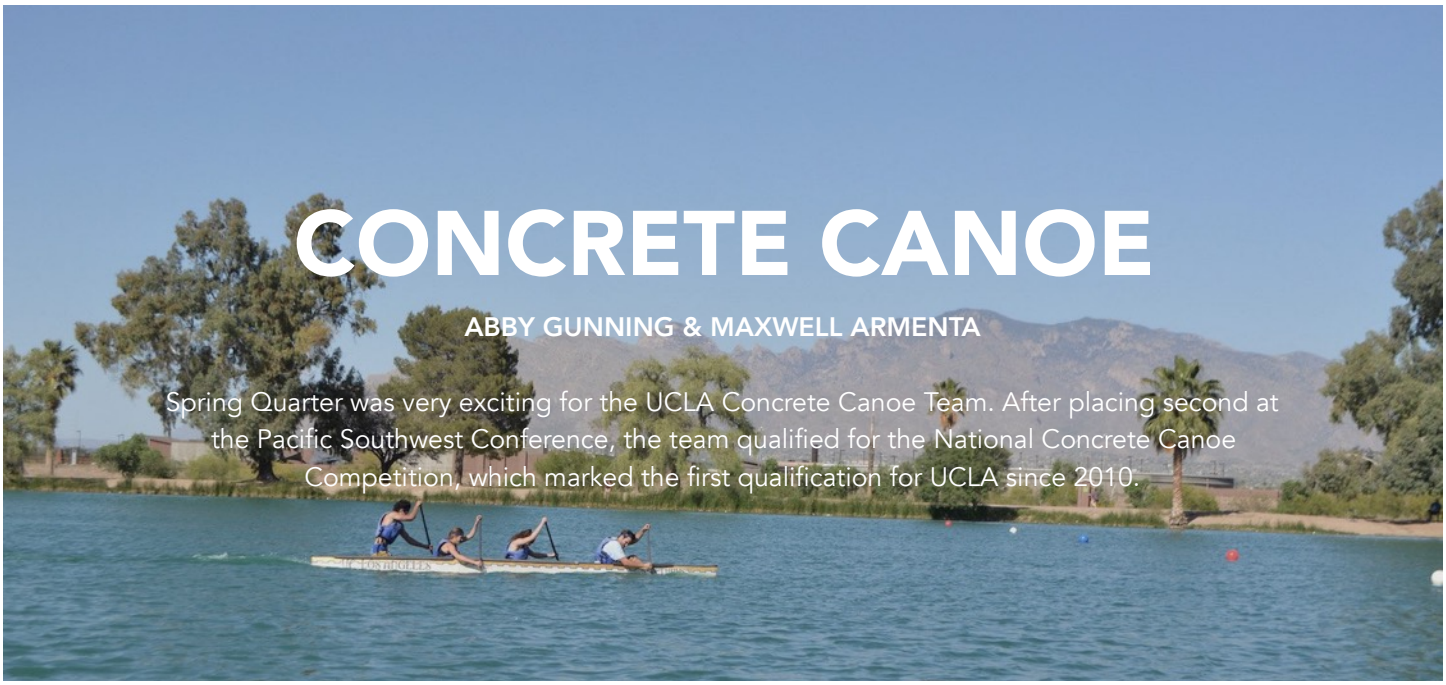
This year's conference was from April 9-11 at University of Arizona in Tucson, Arizona. Our UCLA Concrete Canoe, Steel Bridge, Surveying, GeoWall, Environmental Design and Concrete Sports teams were able to showcase their talents and products at this event. We brought plenty of competitiveness as all of our project team members have dedicated a lot of time during the school year to prepare for the intense races and performances. In addition to our projects, we also participated in other fun events, such as Doghouse, Transportation and Talent Show.

During the overall duration of the conference, we stayed at the marvelous Doubletree by Hilton.

On the first day of conference, our members arrived bright and early on the University of Arizona campus to set up and showcase various projects to other participants and judges. Our first competitive project was Doghouse. Our Hollywood-themed design helped earn third place overall. As the day progressed, we had teams compete in team building events such as basketball and Family Feud.

On the second day of conference, a majority of the events such as Concrete Canoe races took place at Tucson's Silverbell Lake. Our paddling team was up against other very formidable teams and we were able to place second overall in the canoe races. The Ultimate Frisbee team also played hard and placed third overall. After a long successful day, we dined at a nice Italian restaurant and enjoyed the night under the nice Tucson sky.

On the third and final day of conference, our teams reconvened at University of Arizona to compete in the remaining events and attend a non-traditional awards banquet. Our GeoWall team was able to place second overall. Out on the field, our soccer team was able to place third overall. Towards the end of the day, we gathered at Pima Air & Space Museum to celebrate with a cocktail-style dinner and discover how we and other schools had placed. At this high octane event, schools were chanting and displaying much spirit. Although not all of our ASCE members were able to attend the conference, everyone's hard work and contribution to the projects showed, and we were able to bring home second place overall in the 2015 PSWC competition.



CONCRETE CANOE

ABBY GUNNING & MAXWELL ARMENTA

Spring Quarter was very exciting for the UCLA Concrete Canoe Team. After placing second at the Pacific Southwest Conference, the team qualified for the National Concrete Canoe Competition, which marked the first qualification for UCLA since 2010.

On June 15th, 2015, the UCLA Concrete Canoe Team tightly packed *Arcturus* (the 2015 UCLA Concrete Canoe) into Berkeley's trailer. Sitting right next to the Cal Concrete Canoe Team's *Bearea* 51, *Arcturus* was ready for the four-day trip across country for the 2015 National Concrete Canoe Competition in Clemson, South Carolina.

One Bruin and three Bears departed at 4 a.m. on Tuesday, June 16th. Meanwhile, the remaining seven team members flew in to Atlanta, Georgia on Thursday, June 18th. The team was reunited in full on Friday, June 19th. Once there, the entire team checked into its rooms at Clemson University and repaired damages on the final display (which were caused by the cross country trip).

Day one began at 7 a.m. when the team unpacked the stands, cutaway, canoe, and display from the Cal trailer. The display was quickly assembled just in time for the team picture and official weigh-in. The canoe weight submitted by UCLA was 169 lbs, and the team comfortably met the 10 lb tolerance by officially weighing-in at 166 lbs. After weigh-in, *Arcturus* was taken to the dunk test. During the dunk test, the canoe is placed with two 25-lb sand bags and is completely submerged. The submerged canoe must then rise to the surface within two minutes of being pushed under. While the back half of *Arcturus* did break the surface (due to uneven buoyancy in the canoe, the bow remained under water), this was deemed as a non-pass by the CNCC (Committee on National Concrete Canoes). The UCLA team added additional floatation to *Arcturus* and was assessed a penalty on the final product score.

During the display period, the UCLA team was able to talk with teams from around the nation, and collectively was able to obtain a lot of knowledge on different mix, construction, and finishing practices which they will be able to implement for 2016. Having alumni (Justin Maynard, B.S. '12, Sam Delwiche, B.S. '13, Wayne Shen B.S. '13, M.S. '14) attend was very beneficial to the team, as they were able to provide insight and advice throughout the weekend.

Day two was presentation day. The entire team woke up early to watch the UCLA team present. The presentation was completely done on PowerPoint with Abby Gunning and Maxwell Armenta presenting (Project Manager and Assistant Project Manager, respectively). After the presentation, a round of questions ensued. The team was able to skillfully answer all questions, which helped contribute to its ability to obtain fifth overall in oral presentation. The entire team continued to observe the remaining presentations throughout the day, taking notes to improve its performance in future years.

Following presentations, the team was able to take *Arcturus* to the race location and practice prior to race day. This was very beneficial, as a slight current in the water was something the team would need to adjust for in the next day. After practicing, the Alumni joined the team for a nice dinner in downtown Clemson.

PRESENTATION Abby Gunning and Maxwell Armenta posing with their hats after their oral presentation.

Day three was another early start for the team. The trailer was unpacked at 7 a.m. The UCLA team was able to share its EZ-ups with the Cal Concrete Canoe team. This was very useful since it was very, very hot! Races began with the endurance race for women (Abby Gunning & Megan Nazareno), then men (Maxwell Armenta & Christian Tran). The UCLA women's endurance team took sixth place with a time of 4:31. The UCLA men's endurance team took fourth place with a time of 3:49. Both sprint teams competed well, however due to technicalities both the women's (Abby Gunning & Megan Nazareno) and men's (Kevin Adamson & Vatsal Gupta) sprint teams were penalized in the qualifying and petite final races, respectively. The strong performance from both teams contributed points to UCLA's overall score. The coed sprint team (Kevin Adamson, Allison Woodworth, Amberly Bark, and Maxwell Armenta) placed very well on the national stage. After qualifying for the grand final race, the coed team was able to beat the University of Wisconsin – Madison, taking fourth place in the coed sprint race with a time of 3:00.

The award ceremony was conducted on the night of race day. UCLA walked across the stage to claim three different awards due to their strong performances in paddling and presenting. The 2016 national competition was announced to take place at the University of Texas at Tyler.

UCLA CONCRETE CANOE TEAM Group photo of the UCLA team taken prior to the official weigh-in of *Arcturus*.

CONCRETE SPORTS

KARAN PATEL

CONCRETE BOWLING Kristina Carter going for a strike.

Concrete Bowling is a project where students design and build a bowling ball by applying their creative and technical skills. Concrete mix design balances aerodynamics, strength and aesthetics. Throughout this project, students get hands-on experience with mold construction, concrete mixing, concrete de-molding, and concrete sanding, while fine-tuning their bowling skills. Not to forget, this is a great team-building activity as well.

Going into the competition this year, our team was a little bit nervous but, at the same time, very prepared. We had numerous bowling practices, which definitely helped us perform at the highest level in the competition. All the hard work by all the project members and especially the team earned us second place overall in PSWC this year. Thanks to everyone who helped us make 2015-2016 a historic year for our project!

DOGHOUSE

JONATHAN WIGMAN

DOGGYWOOD Hollywood-themed doghouse.

This year, the Pacific Southwest Conference featured an event that tasked schools with building a sustainable, functional, and geographically themed doghouse all while keeping below set dimensions, weight, and costs. Since UCLA is so close to the world-famous Hollywood, we brought a Hollywood-themed doghouse, which we cleverly named "Doggywood". It incorporates sustainable features such as a green roof, low VOC paint, sustainably harvested lumber, and some recycled lumber and hardware. All the planning in combination with the artistic talent and craftsmanship of our members led to an exciting third place doghouse.

After the conference, we donated our doghouse to the Humane Society of Southern Arizona.

ENVIRONMENTAL DESIGN

THOMAS CHOI

This year, the UCLA Environmental Design team was tasked with creating a system to remove a known concentration of chromium and copper from a solution of contaminated water. After extensive research and testing in our project work days, we arrived at a gravity-fed packed bed column system sequentially containing a layer of activated carbon to remove any organic compounds or large particulates, a layer of oxidation reduction media, and a layer of an ion exchange resin to remove any metal compounds in the water. We finished the construction of the project well over a week prior to the competition and the preliminary tests demonstrated that our method removed virtually all the metals to levels below our known detection limits.

Our competition was held on the first day of Pacific Southwest Conference and it was among the first of the projects to be presented that day. The event was an outdoor setting in a small courtyard, and all the schools gathered around to display their poster boards and projects. Surprisingly, each of the systems was a variation of the other; all schools used similar forms of an ion exchange system to remove the contaminants.

The presentation went by smoothly with two sets of judges asking us some information about our system and the theory behind our contaminant removal process and construction of our system. After the presentation, it came down to the actual testing portion of the competition. Once we got the start signal, we poured the contaminated water into our system and waited for it to go through the column. After a couple of minutes, we started seeing a small leak dripping slightly into our final collection bucket. But during transport, a small amount of water soon flowed out through the bottom. We suspect that this was a result of a small crack in the layer of epoxy sealing the bottom of our inlet bucket. The effect was minimal however, and we ran through the entire volume of water well within the time limit. During competition and despite our leak, we were able to secure fourth place.

UCLA ENVIRONMENTAL DESIGN TEAM Environmental Design team members showing their final system before heading to PSWC.

GEOWALL

JOHNFAVOUR NG & SOHEIL KASHANI

The GeoWall project team works toward creating a model Mechanically Stabilized Earth (MSE) retaining wall using paper. We design a wall that can hold back over 500 lbs of sand using less than 10 grams of paper reinforcement. Our team felt confident going into the competition, and we are excited to have placed second in the 2015 Pacific Southwest Conference. We hope to continue improving upon our design in the years to come!

GEOWALL AT PSWC Soheil Kashani and Rhonda El-Hachache pouring sand into the MSE retaining wall.

STEEL BRIDGE

SAM CUMMINGS

Steel Bridge is a student-run, competition based project that consists of the design, fabrication, and construction of a steel bridge that spans about 20 feet. Each year, a new design must be made to compensate for a new set of rules set out by American Institute of Steel Construction (AISC), the main organization that runs the event. The bridge is judged based on its construction time, overall weight, deflection under both vertical and horizontal loads, and finally, whether or not the it can sustain a vertical load of 2,400 lbs.

Our team this year put out a tremendous effort to revamp our entire design and fabrication process in the hopes of being a true contender in this year's competition. We implemented new strategies such as designing with circular tubing, conducting analysis in the CAD program SolidWorks, and incorporating an arch into the design to increase efficiency. Through countless hours of fabrication and practice builds, we achieved a bridge that was light, strong, and quick to build. Our bridge was certainly a contender at competition, but unfortunately a small failure came under the vertical loading test, when the bridge swayed just over an inch at 2,350 pounds. This minute detail disqualified it from the competition. Although the results do not show, our bridge had drastic improvements from those of previous years, and our near miss this time has only made us more eager to achieve our goal of victory in the 2015-2016 school year.

BRIDGE LOADING UCLA Steel Bridge Team members preparing the bridge for testing at PSWC.

SURVEYING

CHRISTIAN TRAN

Surveying at UCLA meets every week during Fall and Winter quarters of the school year to teach members about the basics of being a surveyor. This year, the surveying team embarked to Arizona to compete against over a dozen of schools in a surveying competition that relies on speed, accuracy, and knowledge. Although our team did not make it in the top three ranks this year, we all, including myself, have learned a lot about surveying, its concepts, and its importance. We hope to expand the knowledge in the 2015-2016 year through new connections with professional surveyors and help from our very own professors.

SURVEYING COMPETITION Kevin Adamson and Christian Tran setting up the total station.

TRANSPORTATION

ARIELLE SANGHVI

The Transportation Competition team gave a great presentation of "Boelter Pass" to the judges at Pacific Southwest Conference this year; the late-night laboring over the written report and the road design truly paid off on that scorching Arizona day. Both the judges and other school teams loved Soheil's photoshopped image of the road that we had designed. They even commended our poster, which was held on a self-made stand created with leftover foam from our Concrete Canoe. Still, the additional yards of duct tape could not keep the wind from blowing the poster over! Overall, it was a fantastic experience that provided a glimpse into the hard work that goes towards engineering a functional and cost-efficient highway.

UCLA TRANSPORTATION TEAM Team members presenting their "Boelter Pass" poster board at conference.

SEISMIC DESIGN

VICTORIA LAM

After many hours of going through security, flying, and layovers, the Seismic Design Team arrived in Boston and was ready for competition. But one thing was on our minds: Did the structure make it through the flight safely? The flight was a bit bumpy, but luckily, it arrived all in one piece.

First up for competition was the presentation. In preparation, countless hours were spent in our hotel room memorizing, rehearsing, and perfecting the presentation. Even Professor Zhang helped out and gave us feedback on what could be improved. A combination of an innovative Prezi presentation, a detailed script, and clear-cut answers landed us first place in communications.

Next was the actual shake table testing. While we watched the other schools' structures go through the shake, we were slightly concerned about several things. First, we noticed that the competition ground motions were a lot more violent than what we had programmed for our tests. Second, it seemed that most of the structures that failed snapped at the top of the shear walls due to the abrupt change of stiffness. But, we had faith in our structure, Boston Light. In our prototype testings, we made sure that the change of stiffness throughout the structure was gradual through the use of different density wood and the narrowing of shear walls before transitioning to braces. All of our hard work paid off seeing that Boston Light survived. Of course, we celebrated the Bruin way with an 8-clap!

With competition over, we got to explore and admire the beautiful city of Boston. At the heart of Boston, we were surrounded by the traditional, iconic brick buildings. We were able to go inside historic buildings, such as Faneuil Hall, and learn a bit of their history. We also toured other famous attractions, like Fenway Park and Salem. Given the plentiful food choices ranging from fresh seafood to handmade pasta to amazing sweets (Georgetown Cupcakes and Mike's Pastries!), we never went hungry!

Once EERI fixed its score calculation errors, we went from an initial third place to second place, beating Berkeley and only slightly behind Romania's Technical University of Cluj-Napoca.

This was truly a wonderful year for Seismic Design and we could not have gotten this far without the help of our professors and each and every one of our members!

EERI COMPETITION Team members receiving their awards at the competition in Boston, Massachusetts.

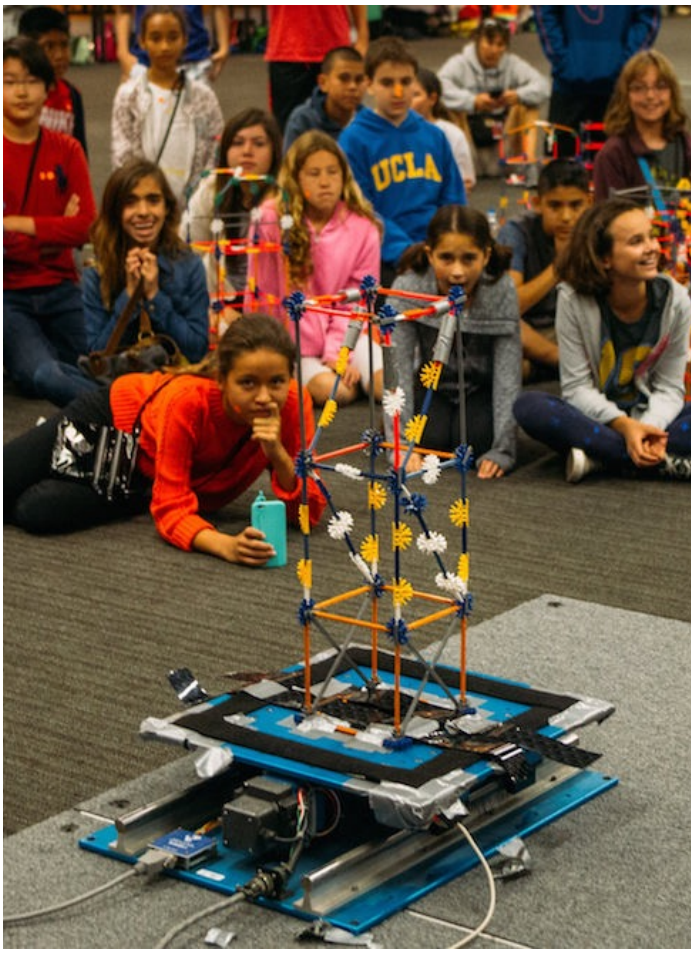
SEISMIC OUTREACH

RYAN WORLEY

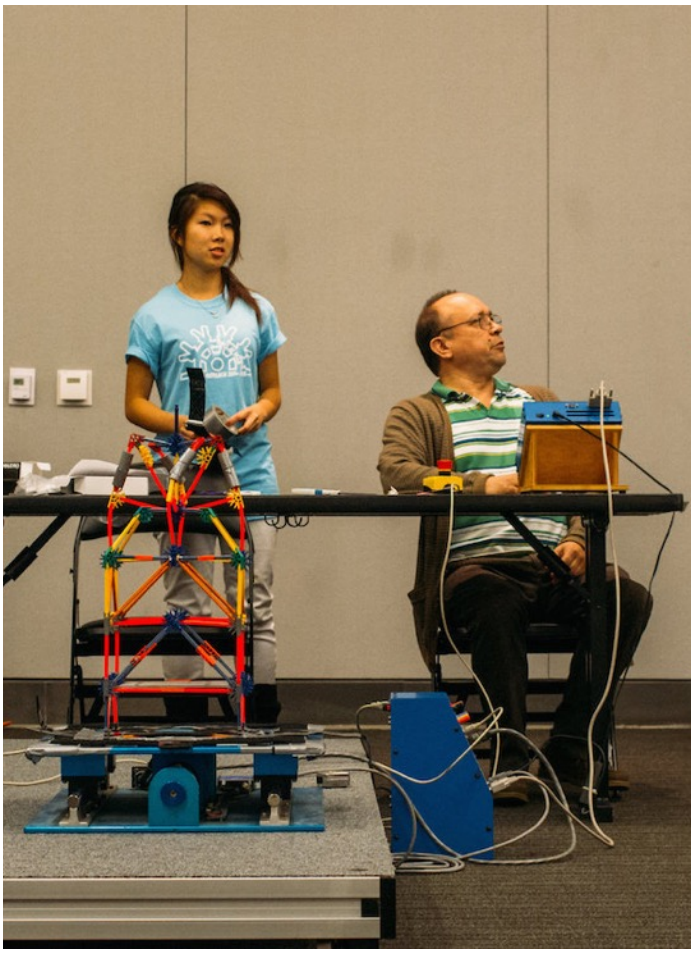
On May 21st, 2015, 250 middle school students attended UCLA for the Finale of the Seismic Outreach program. Earlier in our program, ASCE volunteers twice visited Our Lady of Perpetual Help and Lincoln Middle School to teach students about Seismic Engineering and its importance in California. This was done through interactive lectures, videos, and hands-on examples. The middle school students were then given a hands-on project where they were able to construct a model skyscraper out of K'NEX.

At the Finale, the students were able to test their structures on UCLA's shake table under a simulated earthquake. They also received feedback on their projects via professionals from Englekirk, Walter P Moore, AECOM, and LA YMF. Besides shake table testing, the students were also given a tour of UCLA by individuals from ASCE, Chi Epsilon, Engineering Ambassadors, and Tau Beta Pi.

As we look towards the future of the program, we see huge potential to affect a plethora of children in the LA area. For the 2015-2016 year, we look to try and affect over 500 different students! We hope that many members of the UCLA ASCE chapter will be able to come out and help in the events. Our project activity will start as soon as the 2015 Fall Quarter begins. We hope to see everyone come out! Please contact Austin Wong if you have interest in volunteering.



FINALE Middle school students observing the shake table test.



SHAKE TABLE Victoria Lam and Alberto Salamanca running tests.

AWARDS BANQUET

GABE CONCEPCION

For 55 years, ASCE at UCLA has continued to drive the professional, social and academic growth of our members – leading nationally acclaimed technical projects, building long term relationships, and providing a home for UCLA's civil engineering student body.

Every year in our group's history marks a new and greater milestone. This year was no exception, as highlighted by our second place success at the EERI Seismic Design competition, second place victory at the 2015 Pacific Southwest Conference, and our proud reception of the LA YMF Outstanding Student Chapter of the Year Award. And at UCLA, we also won the Student Group of the Year - Popular Choice Award!

To celebrate each year's many achievements and give special thanks to those who built and added so much value to ASCE at UCLA, we host the End of the Year Awards Banquet.

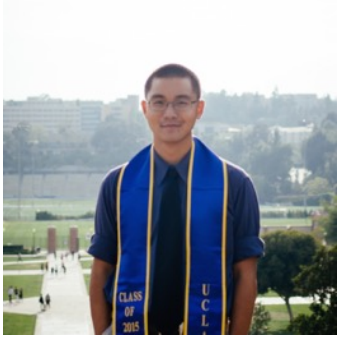
This year, the banquet was hosted on the 15th of May at the UCLA Faculty Center. Over 80 guests arrived and dined together on a delicious three-course meal. The banquet brought together professionals, UCLA faculty members, and students, all of whom were thrilled to see the continuing success, growth, and evolution of the group. Outstanding individuals were recognized for their remarkable contributions with the Professor of the Year, Lecturer of the Year, Teaching Assistant of the Year, Project Manager of the Year, Project Director of the Year, Project Engineer of the Year and Richard T. Shimano awards.

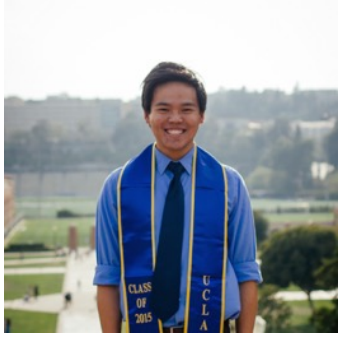
Beyond these individuals, we at ASCE at UCLA would like to thank everyone – our sponsors, UCLA, ASCE and all members for continuing to support our efforts and endeavors every step of the way. Next year, we invite you to come and join the celebration, and by that time, we hope that you enjoy your part in ASCE at UCLA's long-standing history!

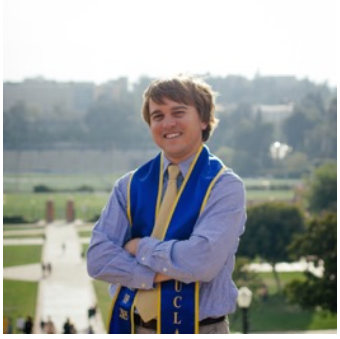
AWARD RECIPIENTS (LEFT TO RIGHT) Victoria Lam and Jonathan Wigman (Project Directors of the Year), Paul Lee (Richard T. Shimano), Steven A. Margulis, Ph.D. (Professor of the Year), Benjamin Turner, Ph.D. Candidate (Teacher Assistant of the Year), Abby Gunning (Project Manager of the Year), Patrick A. Gibson, P.E., PTOE (Lecturer of the Year), William Yoshida (Project Engineer of the Year).

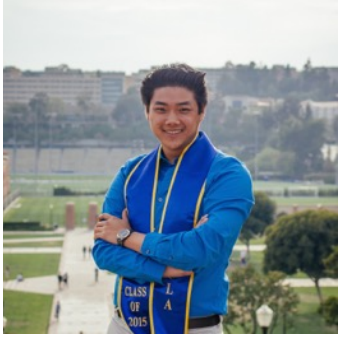
ASCE GRADS

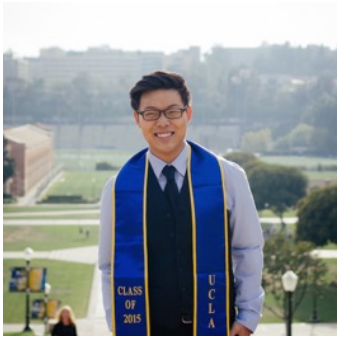
CONGRADULATIONS, CLASS OF 2015!

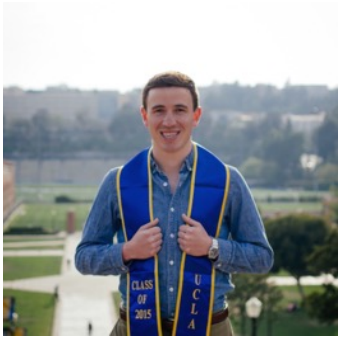












CLINT BANNOUT

I graduated as a Civil and Environmental Engineering major with focuses on structural and geotechnical engineering. One of my favorite experiences was traveling with the GeoWall team to Atlanta, Georgia to compete in the national competition at GeoCongress 2014. Even though the team did not place as well as we wanted to, we enjoyed exploring Atlanta, meeting geotechnical engineering professionals, and creating long-lasting bonds with each other. My favorite class was Management 180: Introduction to Real Estate Finance and Investments. That class not only covered the basics of real estate investments, but also taught students how to create and negotiate real estate contracts. Other than with the GeoWall team, I was heavily involved in the UCLA student chapters of the American Society of Civil Engineering (ASCE), Institute of Transportation Engineers (ITE), Chi Epsilon (Civil Engineering Honor Society), and the California Geotechnical Engineering Association (CalGeo). After graduation, I plan on working as a Business and Systems Integration Analyst at the consulting firm Accenture.

PAUL LEE

I have had a lot of great experiences with ASCE during my five years at UCLA. I sure had a blast when I got to serve as Project Executive and helped lead the entire club. I was also involved with Steel Bridge every year and being PM was something I had always wanted to do. When I got the chance to be a project manager last year I was excited, but boy was that the most stressful yet amazing experience I have had, EVER. Even though we did not win, it was something truly memorable.The memories that will last, however, I think are the times when we were exhausted from working on projects and we were just collapsed on the couch talking about going to Nationals or knitting bees or just being silly with each other. You meet people, bond over projects, go on crazy trips, and they become family. You forget that all this is related to civil engineering but it is just a group of friends who just really likes to make concrete canoes, steel bridges, and big humongous wooden towers. I am going to miss it a lot. So this summer, I was a student engineer with LADWP, but I now go to Berkeley for its program in Energy, Civil Infrastructure, and Climate in the Civil Engineering department this Fall. I have not planned things out after graduation, but I will just wait and see. I definitely plan on coming back to LA and working somewhere related to engineering sustainable cities.

SEEMA BARUA

I graduated from UCLA with a M.S. focused in geotechnical and earthquake engineering. I also received my B.S. in civil engineering from UCLA in 2014. I have been an active member in ASCE since I started at UCLA. I was involved in the Seismic Design team when it won first place in the EERI competition in 2012 and 2013. I also served as ASCE Treasurer in my last year as an undergraduate and as secretary for CalGeo during my masters. After graduation, I am now working in San Jose, CA for ENGEO, a geotechnical and environmental engineering consulting firm. While my time with the UCLA ASCE and CalGeo chapters have come to a close, I hope to help out in any way I can in the future. These organizations are the reason why UCLA students come out ready to take on the world. They truly supply us a home with everlasting friends, memories, and the tools necessary to be successful!

NORMAN CHAK

I started work in September as a project engineer with W.E.O'Neil. This past summer I backpacked all around Europe and then hung out in the Bay. Europe was really exciting and different everyday, but I still miss my friends from UCLA. UCLA has really been great to me, and although I have some slight regrets, it was much more than I had expected. I wish I had spent even more time with ASCE, especially during my senior year. So please do not be like me, and do whatever you think is really best for you, even if it is not ASCE.

My favorite memories from ASCE include all the competitions from Arizona to Seattle to Reno. The highlights were kayaking with the Seismic Design team and alum Wayne Shen in his native Alaska, Disney Nights, consuming fruit snacks in Reno, throwing marshmallows into mouths at ski trip, toboggan building in Seattle, and too many other things. Even the everyday struggles and events were great because of you all. From NOT doing 151 group work, gossiping at parties, spending a forever in the lounge, climbing atop things, and straight chilling, they were as dank as Christian's memes. Thanks to everyone who has ever connected with me, because you have made my UCLA experience that much better.

DAVIS THOMAS

I graduated with a Master's degree in Structural Engineering. I now work at the structural engineering company Simpsons, Gumpertz, and Heger (SGH) in Newport Beach and I do seismic risk analysis of nuclear structures. This work includes a significant amount of modeling in SAP (taught in undergrad courses) as well as a moderate amount of probability analysis through Latin hypercube/Monte Carlo methods (taught in CEE 244). Along the weekends, I will be traveling to Zion National Park/Mt. Whitney and more! See you all most likely at the fall career fair!

THOMAS CHOI

I will miss UCLA. From the countless people I can now call my friends, to the clubs and organizations that made me feel at home, to the unforgettable experiences that will stick with me for a lifetime, and to the massive amounts of schoolwork that made my life so terrible, but ultimately so rewarding - I will miss it all.

I joined ASCE in my junior year when I received an unassuming email about a project that builds a water treatment system out of scratch. I went to the first meeting not knowing what to expect, but the environment was surprisingly warm, open, and exciting. Daniel Brehm and Joey Yan, the project manager and director at the time, explained the project and we jumped right in. The workdays flew by with countless hours spent in the lab and the lounge, figuring out how to make the system. It was hard work, but the team made me feel like I was making a difference; I would not have wanted anything else. Ultimately, we won second place at PSWC, and it was one of the best achievements I ever had at UCLA.

I became the project manager in the following year, and I had the chance to lead workshops and once again create our very own system. We worked hard and ultimately got a fourth place finish. In the end, my experiences at ASCE were some of my most rewarding time at UCLA. I want to thank everyone who was a part of my team and everyone in ASCE.

SUMMER ACTIVITIES

To many of us, summer is a time for relaxation, fun, learning, exploration and growth. Here, we highlight how a few individuals from ASCE at UCLA spent their last summer.

CAYLA WHITESIDE

I did a lot of traveling and an internship. First, I went to Greece and Turkey for about two weeks at the end of June with my family. I also travelled to Fiji in July. After I returned from my traveling, I started my internship with the City of Monterey office, where I worked in several different areas of civil engineering and gained some valuable skills for the future!

ARIEL SIEGEL

I worked as a mentor for the Tech Camp program at UCLA. Tech Camp consists of two four-week sessions where high school students who are interested in engineering are given an opportunity to further their knowledge of several engineering pathways through lectures and hands on projects. As a mentor for Team Seismic Design, I introduced students to civil engineering, and more specifically, structural and seismic engineering, with lectures in forces, statics, seismic activity, architecture, and much more. Students were then able to apply the topics through building and testing balsa wood bridges and towers. I am fortunate to have worked on the program that was proposed and modeled off of ASCE!

RYAN WORLEY

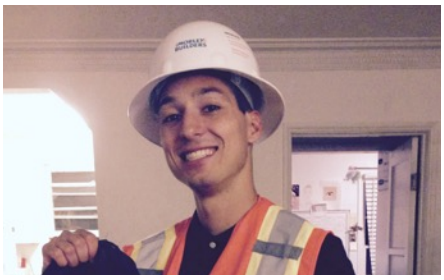
I interned at DPR construction in Redwood City in Northern California. This was my first job having to do with civil engineering, and it was very exciting to find out what construction is all about! Additionally, I did some road-tripping throughout California with my friends, stopping at national parks and various schools down the coast!

THOMAS CHOI

After a year as the Environmental Design Project Manager, I spent the early summer relaxing at home. In early July, I started working at Amphastar Pharmaceuticals, a specialty pharmaceutical company that develops, manufactures, and markets injectable and inhalation products.

SURAJ PATEL

I interned with Turner Construction at the Transbay Transit Center in downtown San Francisco. It is a monumental project that will be the first high speed train system in the United States. I also trained for the UCLA ultimate season and had a basketball tournament in Las Vegas. In addition, I played with a club ultimate team from the Bay Area called Alchemy. I finished with a fun-packed summer to boost up into this school year. Let's get it.



MAXWELL ARMENTA

I lived in Westwood and worked for Morley Builders to construct a parking lot at Universal Studios. Besides work, I attended Outside Lands Music Festival, trained for a marathon with Vatsal, and continued to work on the Concrete Canoe project. We plan to go to nationals again this upcoming year, so we want to get involved early! Hull design, mix development, planning and theme selection were ongoing throughout the entire summer.

DAVIS THOMAS

After graduation, I have been working at the structural engineering company Simpsons, Gumpertz, and Heger (SGH) in Newport Beach. I do seismic risk analysis of nuclear structures, which includes modeling in SAP and probability analysis through Latin hypercube/Monte Carlo methods. Along the weekends, I have also been traveling to Zion National Park/Mt. Whitney and more! See you all most likely at the fall career fair!

CHRIS JANSEN

I worked as an intern for Turner Construction. I was really excited, as this was my first internship. I learned a lot about the construction industry as I got some valuable, hands-on experience. While I was doing my internship, I also took two classes at UCLA: Introduction to Engineering Thermodynamics (MAE 105A) and Electrical and Electronic Circuits (EE 100). This was my last required mechanical engineering course and my second technical breadth course. Lastly, a few of my family members visited me over the summer. My mom visited at the beginning of summer break, while my dad, stepmom, and sister visited for one week in July. It was a fun and eventful summer, as well as a nice break from school once those two classes were finished in August!

MEGAN NAZARENO

For the first half of summer, I traveled around Europe with my family (we started in Barcelona, Spain and eventually ended up in Paris, France) and then returned to UCLA to take summer classes for the second half (I am finally done with my lower division courses!). Even though summer did not really seem to start for me until after Concrete Canoe Nationals in South Carolina a week after school ended, the competition was very fun and the team learned a lot. We placed 10th overall, and we are looking forward to qualifying for nationals again!

UPCOMING EVENTS

ENORMOUS ACTIVITIES FAIR	9/22/15, Royce Quad & Wilson Plaza
OPEN HOUSE	10/7/15, Boelter Penthouse
FALL ASCE GENERAL MEETING	10/14/15, Boelter Penthouse
FALL CEE CAREER FAIR	11/12/15, Ackerman Grand Ballroom