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FROM THE PRESIDENT

“I...Winter Career Fair was incredibly strong. 25 companies attended the career fair...”

It gives me great pleasure to present to you the Spring 2016 Edition of ASCE Bruin. We picked up right where we left off after fall quarter and kept the ball rolling. We continued having company info sessions nearly every week, and our Winter Career Fair was incredibly strong. 25 companies attended the career fair, with about 60 percent of them being design firms and 40 percent of them being general contractors. Throughout the quarter, we also put on and participated in multiple community service events, such as E-Week and the Annual Popsicle Stick Bridge Competition. We also hosted events to interact with our alumni, such as our first Alumni BBQ and Basketball Game, which was a fun time for all who attended.

Winter quarter was a project intensive quarter, as all our project members were gearing up for their competitions. For most projects like Concrete Canoe and Seismic Design, the competition will happen in the spring, but our ASC 67 Construction Management team and our GeoWall team have already competed in winter quarter. ASC 67 competed at the regional competition in Sparks, Nevada, and GeoWall competed at the Geotechnical and Structural Engineering Congress in Phoenix, Arizona. Both teams put in many hours to prepare and had great experiences at their competitions, and they will be able to use the knowledge that they gained for future competitions.

In addition to a tremendous amount of project work last quarter, we did a little bit of traveling! Following the second week of winter quarter, a large group of students drove to Big Bear Lake to spend the three-day Martin Luther King Jr. Day weekend in the snow. This trip was our largest social event of the quarter, and gave our members a chance to get away from campus for a few days with old friends as well as the chance to bond with new friends. Attendees were able to enjoy skiing, snowboarding, sledding, and snowball fights, as well as relaxing in the cabin while playing games and watching football.

During the following weekend, 14 dedicated members flew to Anchorage, Alaska for the Workshop for Student Chapter Leaders (WSCL). Our attendees were able to learn leadership skills and strategies for improving our student chapter. They also networked with professionals and members from other schools and got a chance to explore the city of Anchorage. Last year, only four members from our student chapter attended the workshop, so having ten more people in attendance this year was pretty incredible.

Usually, we have one general meeting every quarter, but this quarter, we decided to change that and have two - one at the start and the other in the middle of the quarter. At the first meeting, we elected our new secretary for the upcoming 2016 calendar year, Mahsa Sheykhsoltan. After getting positive feedback regarding general meetings, we
hosted a second general meeting, where we played a three-round trivia game and invited our guest speaker, Phil Davies, LA YMF President, to speak about his involvement with ASCE and YMF and what he has enjoyed and taken from being a part of the organizations.

Later in the quarter, we organized the Undergraduate Town Hall with Professor Scott Brandenburg to help the UCLA Civil and Environmental Engineering (C&EE) Department get feedback on the department. The department also shared its strategic plan and updates to the current curriculum with the students, who were then able to express their opinions and suggestions. This event was very useful and beneficial for all parties involved.

At the end of the quarter, over 25 students attended LA YMF’s Annual Student Night and Job Fair. They networked with many companies and enjoyed the following banquet, where scholarships and awards were given out. Of the ten scholarships, five were awarded to UCLA students, including Megan Nazaren, Monica Corbin, Ryan Worley (who got two scholarships), and Maxwell Armenta. This was incredibly impressive, given that students from the other 11 attending universities could have applied to the same scholarships. The fact that our members took home half of them against such strong competition speaks volumes for the extraordinary people in our chapter.

We still have a lot to look forward to in the spring. During the first week, most of our projects, including Concrete Canoe, Steel Bridge, Surveying, Concrete Sports, GeoWall, and Environmental Design, will compete at Pacific Southwest Regional Conference (PSWC) in Long Beach, California. Then, in the following week, our Seismic Design team will compete at EERI Nationals in San Francisco, California. Our Seismic Outreach program will host another large event for hundreds of middle school students, teaching them about seismic and structural engineering. During fourth and fifth weeks, we will hold elections for our 2016-2017 officer board, and later in the quarter, we will hold our end-of-the-year Awards Banquet to celebrate all the hard work and success from the entire year.

This year’s journey thus far would not be possible without the incredible support from our sponsors, alumni, advisors, professors, the UCLA C&EE Department, and our family and friends. Thank you for all of the advice, help, and financial support that you give us all year and for being a part of this amazing student chapter.

Zachary McFann
President
zmcfann@ucla.edu
MEMBERSHIP

CHRIS JANSEN

We currently have a total of 240 paying members within our ASCE student chapter, 108 of which are returning members and 132 of which are new members. As predicted in the winter newsletter, we have surpassed last year’s membership count by 13 members!

This year, we have implemented a new member tracking system, which allowed us to determine which of our members were the most active. We found that Ruby Kalra had participated in the most ASCE at UCLA events. As such, she was recognized as the “Member of the Quarter” at the second Winter General Meeting. We appreciate the dedication of our active members, and we will continue to recognize them, especially at our annual Awards Banquet later this year.

With the winter quarter behind us, we are now looking forward to the biggest event of the year: Pacific Southwest Conference (PSWC). At PSWC, we will be competing against many other schools with our projects like Concrete Canoe and Steel Bridge. 98 UCLA student attendees will be participating in the competitive events as well as cheering on their fellow peers. It will be interesting to see where our hard work, dedication, and support will take us at PSWC!

As usual, we will continue to host info sessions, events with UCLA professors and alumni, field trips, and social events throughout the spring quarter. We will also be hosting our previously mentioned end-of-the-year ASCE at UCLA Awards Banquet, where we will be getting together for a fun night of dinner, awards and recognitions, and a recap of the 2015-2016 academic year. We encourage all our members to come out to as many ASCE events as possible to build lasting relationships; network with outside companies, professors, and alumni; improve on professional skills; and lastly, contribute to something that is bigger than themselves.
This past quarter, ASCE at UCLA was once again able to promote a strong, balanced professional presence in addition to offering many opportunities for our members. Building upon an immensely diverse fall quarter of professional events, we were able to expand our variety of companies hosted on campus. From Structural Engineering, Materials Science & Architecture, Construction Management, Transportation, Environmental, and Water Resources Engineering firms, each information session provided a unique perspective on the wide industry of civil engineering. Consequently, we attracted new students to our professional events, offering opportunities to expand our club and introduce more students to the events we host and coordinate for our members. Similarly, event turnouts were phenomenal and the speakers provided engaging, informative information to interested, motivated students. As a club, we have established strong connections with new companies who are eager to continue their involvement with ASCE at UCLA.

ASCE at UCLA also hosted a few workshops that were led by our students. These workshops were designed to promote a better learning environment where students could both teach and learn from their peers. For instance, the Career Fair Bootcamp was facilitated by a few of our upperclassmen, who presented their internship experiences with the companies that would be coming to the Winter Career Fair. In addition, the workshop had a peer resume review session, where the upperclassmen helped the younger members hone their résumés and first introductions to company representatives for the career fair.

Overall, we successfully reproduced a diverse set of info sessions and workshops in order to adequately meet the broad ranges of interest within our club. We have a few more events planned for the spring and are excited to schedule a few more final events to officially end the year on a high note!
FIELD TRIPS

ASIA REEVES

ASCE at UCLA took three field trips and site tours in the winter quarter. We visited Structural Focus and Kennedy Jenks facilities and also took a site tour led by PCL Construction of the new Wasserman Football Center and Mo Ostin Basketball Center on the UCLA campus. The general turnouts were great; about 16 students attended each event. At Structural Focus, students saw a presentation about the company, took a tour of the office, and learned about its ongoing projects. During the Kennedy Jenks field trip, students also saw a presentation and then took site tour of a reservoir that Kennedy Jenks is currently building. Lastly, students toured the construction site of the Wasserman Football and Mo Ostin Basketball centers and learned about what the facility will look like when it is completed. Next quarter, we plan on having a joint field trip with ITE, as well as taking an office tour of Taslimi Construction.

OUTREACH

JUSTINE GEE & MONICA CORBIN

This past Winter Quarter, we had two alumni events and four community service events.

First, we had Mock Interviews, in which alumni and current professionals sat on a panel to answer questions about their professions. Following the panel discussion were the actual mock interviews, where students had one-on-one interview sessions with the professionals and got subsequent feedback. This event was to help our students practice their interviewing skills and become more comfortable in their future interviews.

The second alumni event was our very first Alumni BBQ and Basketball Game. We wanted to host a social event for alumni and students to interact. Everyone enjoyed plenty of burgers and food before attending the UCLA basketball game against Colorado, where the UCLA team was able to secure a win! We had a really good student turnout and a fairly good alumni turnout, but we hope to bring out even more people next time.

In addition to alumni events, we partnered with a church in Santa Monica to feed the homeless on the Third Street Promenade. We had 11 student volunteers, and all were able to have conversations with different people who attended the feeding. It was a great night where we were able to build relationships and listen to people who normally go unheard.

Our other community service events were geared toward elementary school students. We volunteered at LA YMF’s Elementary School Kids Day and Popsicle Stick Bridge Building Competition. At both events, we encouraged young students to pursue STEM fields. We also partnered with the Society of Women Engineers in an outreach event to local Girl Scouts, where we showcased some of our projects.

It has been a fantastic quarter! We look forward to spring quarter where we will have more professional events with our alumni and professors like the annual Spring Student-Professor BBQ as well as new community service events with our friends of the Los Angeles community!
STRUCTURAL FOCUS OFFICE TOUR
ASCE at UCLA members taking a tour of the Structural Focus office in Gardena, CA.

ALUMNI BBQ & BASKETBALL GAME
Students and alumni sharing their love of barbecued food before going to the UCLA vs. Colorado basketball game.

GIRL SCOUTS OUTREACH EVENT
ASCE volunteers displaying their projects in an outreach event to local Girl Scouts.
ATHLETICS

MATT BURKE

In winter quarter, we participated in multiple sports including co-ed recreational soccer and men’s basketball. Our basketball team did not fare too well during the regular season, but our players put in their most effort and took it as an opportunity to prepare for the basketball event that will take place at PSWC. On the other hand, our soccer team gave an outstanding performance. It went undefeated during the regular season and qualified for semi-finals, but it eventually lost to a superb team in a hard-fought battle. Besides basketball and soccer, we also had new teams for cornhole and spikeball that each had a tremendous season.

Our “Athlete of the Quarter” is Kristina Carter! Honorable mentions go to Winston Boyce, Tim Fairley, Zach McFann, and Monica Corbin. We look forward to playing flag football, kickball, softball, and beach volleyball in the spring. We encourage everybody to come out and play with us!

SOCIAL

KRISTINA CARTER & KYLIE WILLIAMS

ASCE at UCLA began winter quarter with “We Are Projects,” an ice skating social event where members from all our projects got together for dinner and ice skating on a Friday night. A few of us fell on the rink, but with the help of others, we were all graceful skaters by the end of the night.

During the three-day Martin Luther King Jr. Day weekend, we took a trip to Big Bear for our annual ski trip! New and returning members bonded in the snow by sledding, skiing, building snowmen, and even making some snow angels. It was a great weekend with great friends.

Once the quarter was in full swing, members got together for a Disney-themed social event. We saw some great costumes, including Ariel and Flounder, Beauty and the Beast, Peter Pan, and a few of the 101 Dalmations. A few weeks later, ASCE at UCLA’s Annual Valentine’s Day Social was another huge hit. Finally, as the end of winter quarter neared, we met up with our friends from the USC ASCE student chapter to hang out and play some sports at Santa Monica Beach. Overall, winter quarter brought many fun times, and we cannot wait for what spring quarter has in store!
MENTORSHIP
WINSTON BOYCE

During winter quarter, ASCE at UCLA hosted several mentorship events to help bring our members together for some fun family activities. Family Jamboree was our first event, where we held an ultimate frisbee pickup game. The game was brief, but it was a great opportunity to practice for the competitive sport events at PSWC.

Later in the quarter, we went bowling in Santa Monica at Bowlmor Bowling Alley. Bowling was especially fun, and as it turned out, a few of members were pretty skilled bowlers! It was a competitive night of solid and some daresay “concrete” bowling action filled with spares and strikes, and ultimately, our members got to know each other better. After bowling, we went to Denny’s for late night snacking!

We hope to host more mentorship events in the spring quarter. In addition, we hope to initiate a system where our graduating seniors can better stay in touch with the younger members in ASCE in the future. Stay tuned!

FAMILY JAMBOREE
Maxwell Armenta, Matt Burke, Andrew Kao, and Winston Boyce enjoying their frisbee pickup game.

BOWLING IN SANTA MONICA
ASCE at UCLA members spending time at Bowlmor Bowling Alley in Santa Monica.
ASCE at UCLA's Winter Career Fair continued our chapter's tradition of excellence. With 25 companies in attendance and approximately 200 undergraduates and graduates, students were able to network with a wide variety of representatives.

Geotechnical, hydrologic, structural, environmental, construction, and transportation firms were all in attendance, giving numerous options to students interested in different fields. Company swag reached a whole new level this year as one company even gave out small succulent plants!

This past winter quarter, we also had four Career Fair interns who helped plan and coordinate logistics for the event, improving efficiency and setup of the event. Overall, students were impressed by the variety of companies and were optimistic about career opportunities after the fair.

In spring quarter, the career fair team is looking to improve company turnout to our end-of-the-year ASCE awards banquet. The team will also be targeting companies that have not been in attendance to our fairs in order to improve the turnout at our future events.

WINTER CAREER FAIR
Broad variety of companies recruiting for full-time and part-time employment and internships.

WINTER CAREER FAIR
Students waiting in line at the Winter Career Fair to speak with company representatives.
The Pacific Southwest Conference (PSWC) is an annual conference that our ASCE student chapter attends each year. It is the culminating event for our projects including Concrete Canoe, Concrete Sports, Environmental Design, GeoWall, Steel Bridge, Surveying, and most recently, Transportation. At conference, students compete in various events against other schools from around the region. The conference is an incredible experience where students can meet new friends, play sports, mingle with companies from the industry, engage in some healthy competition, and simply have a great time!

This year, PSWC 2016 is held at California State University, Long Beach from March 31st to April 2nd. Over 90 students have registered to attend this year’s conference, which is a record number for our chapter!

Due to the large number of student attendees, we hired two Conference Coordinator interns to help coordinate and arrange all the preparations leading to the conference itself. Nanshan Li and Adam Wong have been extraordinary help with various tasks and were eager and passionate about making sure that everything will go as planned. They have already helped plan the majority of PSWC Pump Up Day, which was an event that we held in late February. This event was aimed at gathering students together to practice for the sport events that will take place at the conference. With the help of our new interns, we were also able to have food, and just for fun, a water balloon toss at PSWC Pump Up Day.

Besides collecting and submitting registration for all students and coordinating Pump Up Day, we have also made arrangements for the hotel, restaurant for Friday night’s dinner, transportation, project and conference shirts, and U-Haul storage for our concrete canoe. On top of that, we have submitted the liability forms, ordered a new canopy, and reviewed and submitted the Daniel Mead paper.

All of our project teams have been working hard since the beginning of the school year and are eager to show off their skills and compete against teams from other schools. We believe that ASCE at UCLA will be fantastic, and we cannot wait to see what happens at conference!
During this past quarter, we have been focusing on casting the canoe, developing integrally colored concretes for aesthetics, writing our intensive design report, and constructing our display for the competition.

Casting day was an extensive day, starting at 9:00 AM and ending at 8:30 PM. Overall, there were 46 people in attendance who collectively spent 334 hours casting the 2016 UCLA Concrete Canoe, El Fey. The day started with members preparing the reinforcement mesh and dry-mix materials. After serving breakfast at 9:00 AM, we began placing concrete on the previously oiled and prepped mold, which was prepared in the fall quarter. The longest part of the process was adding the final layer which incorporated different colored concretes for the exterior decorations and inlays for letters which were casted later. All in all, the cast was very successful.

A new addition to this year’s canoe is 3D concrete aesthetics which were cast on the interior surfaces of El Fey. Colored mixes, developed by the mix team, were placed into the shapes of a bar mat, countertop, bottles, and silhouettes, to stay consistent with the Speakeasy theme of the project. On the exterior of the canoe, our main artistic feature is the infilled letters. These letters were casted with a crushed glass mix for a “sparkling” effect in the sunlight. The letters were each casted with slightly varying colors of concrete, which created a gradient across the school name. Freshmen who participated in the “Leadership Training Program” (LTP) during the fall quarter helped lead aspects of the project such as this one. Their involvement was crucial to the success of the project.

Along with the canoe, our team has been hard at work creating stands, a display table, and a representative cutaway. Project directors and LTP participants also led these three aspects of the final product display. The display and stands were made of salvaged wood and recycled materials for sustainability. Crates were used as stands to represent the medium bootleggers used for transporting goods for sale during the prohibition era. The display and cutaway represent a speakeasy bar to tie into the theme as well. The meticulous planning and care in construction have created quality products which we will be proud to display at PSWC.

We look forward to competing in PSWC. The team anticipates strong performances in all aspects of the competition, including paddling, presentation, final product, and design report.
The Steel Bridge project is tasked with designing, fabricating and constructing a roughly 20-foot long bridge that is made of steel. This year, we are building a long span bridge with a river underneath that is six and a half feet wide. We also have the added twist of not being able to cross the river, and instead put two pieces together in the staging area before we take it out into the construction area during the build. The challenge is to find a way to connect and build the bridge in the center of the span and minimize the inherent sag that happens when trying to build from both sides of the river causing two cantilevered beams.

We have completed fabricating our bridge in the winter quarter, and we are excited to compete in PSWC. We are using a couple of new connections this year, including dove tails and tube-in-tube connections that are intended to not only speed up the construction of the bridge, but also provide a more efficient method of load transfer especially in areas under compression. Currently, we are practicing our building procedures to try to consistently construct the bridge as quickly as possible.

This year, our design is similar to that of last year’s national winner. It is a superstructure with a space-truss span. The superstructure is made of wide circular tubing that will take the majority of the load while the space-truss helps with lateral deflection. We are looking to decrease our deflections and our build time this year at the cost of weight. Weight is a minor factor this year as the material costs half as much per pound than it did last year, so we are being liberal with that aspect of the bridge.

The first week of spring quarter will be the competition for this project. We will be competing on April 2nd at PSWC in Long Beach, California, and if we do well at this regional competition, we will be qualified for the national competition at BYU in late May. We are shooting for a national appearance this year, which will be the first since 2008. It will be a great experience for young members to learn from the top schools in this competition, and it will hopefully jumpstart our project team into consistently competing at a national level in the future. After the competition, we will also be transitioning from the current management to new managers, and with that comes a lot of teaching and learning. The new leaders of the project will be chosen, and they will get the chance to form their team for next year. It is going to be an exciting quarter and we are all looking forward to it!

Members of the build team with their completed steel bridge.
CONCRETE SPORTS

CHRISTIAN TRAN

Jumping into 2016, the concrete bowling team had a good start, with the new mold implemented in fall quarter resulting in a successful concrete ball set. The ball, now 8 inches in diameter, was smaller than that of previous years. Additionally, this year’s ball used the concrete canoe mix of Arcturus from 2015 to achieve a much stronger, lighter finish.

After demolding at the beginning of the quarter, the team was set to make an identical concrete ball for practice uses only. By week three, the second ball was ready to be used for weekly practices. With several ASCE members interested in becoming bowlers, the actual competition team was chosen based on who showed up often and how well he or she bowled. With this, the final roster for the Pacific Southwest Conference team include Ariel Siegel, Francis Paras, Ryan Worley, Monica Corbin, and Christian Tran. The team, now using the much lighter practice ball (which allows for much better control and less strain on the arms) feels confident in its ability to place well in competition.

This year, we have chosen the theme “Powerball”, based on the recent billion dollar winnings in the national lottery. ASCE member Austin Wong volunteered to paint the ball using this theme, and we think that it will do very well in the aesthetics category of the competition.

In the beginning of spring quarter, the bowling team hopes to practice a few more times before heading off to Long Beach for the competition!
This year, the GeoWall competition consists of building both a small-scale earth-retaining wall using paper as well as a structural component solely made of wood. The structural component was added this year due to the competition being jointly held by the Geotechnical Institute and the Structural Engineering Institute (GI-SEI 2016).

The past 11 weeks for UCLA GeoWall were full of fun memories and hectic scrambles as we prepared to compete in Phoenix, Arizona for the national GeoWall competition. Before packing up the box and driving seven hours to Phoenix, AZ, we built and tested countless walls in order to optimize our wall design.

President’s Day weekend soon arrived, and we were off to compete against the national top nineteen schools in the national competition. While we did not win, we learned so much from competing and had a great time showing off our design. Our team worked incredibly well together under pressure; it was truly an amazing learning and bonding experience for the UCLA GeoWall team.

During the few weeks after the competition, we have been practicing lots of wall builds with our two new Directors-In-Training so that we may pass along the knowledge of GeoWall to other interested people. We have also been working diligently throughout spring break to prepare for PSWC this spring quarter. We cannot wait for the fun and competitive spirit at this competition in the spring!
ENVIRONMENTAL DESIGN

JONATHAN WIGMAN

This year, our project was tasked with greywater treatment. Typically, greywater is wastewater that is generated from the sink and shower runoff. In California’s drought, reuse of greywater is becoming even more important as it is estimated that up to 70% of household wastewater is greywater.

The competition guidelines gave each school the task of building a device to treat three gallons of tap water spiked with an unknown concentration of an anionic surfactant (soap) and a chemical oxygen demanding source (organic matter in the water) in two hours. Our project team made an educated guess as to what contaminants and what levels would be seen at competition based on previous literature. Once the concentrations were chosen, we began testing the effectiveness of different treatment methods.

This past winter quarter, we looked at a wide array of methods ranging from coagulation to biological digestion, but we eventually settled on passing the water through different physical media. Sand and two different gradations of activated carbon were chosen after many tests. As a result, we spent the following weeks designing and building our apparatus around these two media.

In the spring quarter, we will bring our blue and gold, Bruin born and built apparatus to PSWC with high hopes of doing well at the competition!

SURVEYING

MEGAN NAZARENO

This past winter quarter, our project focused on selecting and preparing our team for the surveying competition at PSWC in the spring.

Rules were released earlier in winter quarter. The competition will consist of four different segments: determining the locations of two points based on a known benchmark, calculating the length and grade of an inaccessible ramp, measuring a horizontal distance with taping, and setting up a tripod and total station.

The final UCLA Surveying team members were chosen based on each member’s individual performance from fall quarter. After receiving excellent work from all our members, it became a difficult decision to pick only four individuals and one alternate to go to the competition, but in the end, the final team will include Megan Nazareno, Cecilia Vong, Josh Manabat, Glynn Baca, and Francis Paras (alternate).

During workdays in the winter, we practiced fundamental skills, from field measurements to note-taking, and each of us eventually found our role. We were very lucky to be trained by retired surveyor, Bill Hofferber, who visited us for a day and showed us how to perform measurements and calculations efficiently. Professor Robert Kayen also advised us in using the total station properly. Our team is very excited to compete at conference in late March and to improve upon last year’s performance.

Additionally, for spring quarter, the project can finally open the workdays again to general members and produce more tutorial videos that our project members found so useful earlier in the year.
TREATMENT SYSTEM
Alejandra Vera, Annie Yu, Kathleen Lo, Joe Wildman, and Jackie Oehler standing with their apparatus.

SURVEYING WORKDAY
Cecilia Vong and Josh Manabat honing their surveying skills before going to the competition.

SURVEYING WORKDAY
Surveying members taking measurements using various equipment.
This past quarter, the UCLA construction management team traveled to Sparks, Nevada for the Associated Schools of Construction regional student competition. We had 18 students competing on three teams, which were Design Build, Heavy Civil, and Mixed Use, and five students competing in the alternate competition. Like the years before, the competition was held at the Nugget Casino Resort, and our teams stayed there for three nights for the opening banquet, competition itself, and a giant career fair at the end of the week.

During the competition, each team received a different problem and had roughly 16 consecutive hours to solve it, which involved estimating costs, coordinating schedules, and modeling 3D structures. The following day, the teams presented their work to a panel of judges, who graded the teams based on their written material, and of course, the presentation. All three teams completed the problems and presented very well, while learning a lot and having fun along the way!

In addition to the competition, our teams attended the opening banquet that featured a very interesting keynote speaker who discussed leadership skills and how to cultivate them. The week was capped off with a career fair with over 80 companies, which all of our team members were able to attend. It was a great networking opportunity, and many team members received interviews and internships!

Since our competition is now over, this spring will just consist of preparation for next year. Potential industry-led workshops about construction management skills are in the works, and they will be organized by next year’s leadership team. We are excited by the progress that were made by this year’s team, and we cannot wait to see what improvements will be made for next year!
After a successful fall quarter of recruiting new members, the Seismic Design team pushed into full gear in preparation for the annual EERI Undergraduate Seismic Design Competition.

With a completely new structural design this year, we needed to build and test two prototype structures in order to ensure an efficient and successful final design. Having a mere 11 weeks to construct three full-scale models required streamlining the construction process. The team utilized AutoCAD templates to construct prefabricated floors, which were then dropped in place and glued to the preassembled structural core. To achieve a more aesthetically pleasing structure, we also put in extra work to curve the outer façade and made extra design alterations that were needed for the structural components. Through the hard work and dedication of our members, the Seismic Design team now has an innovative yet robust final structure!

Thanks to the efforts of our lab engineer, Dr. Eric Ahlberg, we were able to program the actual competition ground motions to test the prototypes. With the results of these tests, we made further adjustments to the design to minimize material usage. Material tests were also conducted to analyze the strength of different bonding agents and methods to straighten out the balsa wood.

The Seismic Design team is sending 11 members to San Francisco for competition in the spring. Last year, our team won second place, so this year, we are hoping to bring back the national championship title to UCLA!
THANK YOU TO OUR SPONSORS!

We would like to thank our following sponsors for donating their resources and time to our organization. We are truly grateful for all the wonderful and kind support, and we hope that our partnership with these sponsors will continue in the years to come.