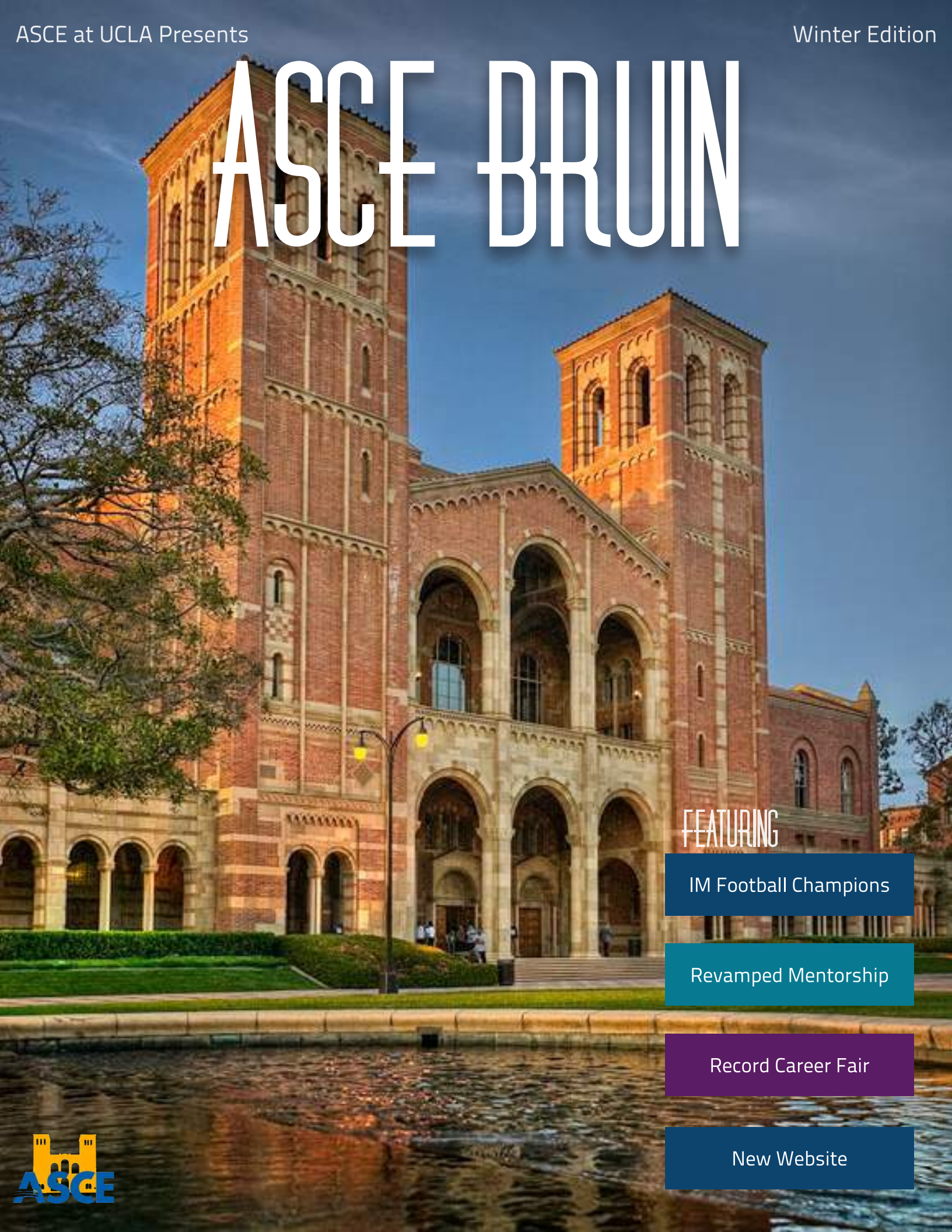
ASCE at UCLA Presents

Winter Edition

ASCE BRUIN



FEATURING

- IM Football Champions
- Revamped Mentorship
- Record Career Fair
- New Website

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PRESIDENT

Letter from the President

By Maxwell Armenta

Dear Alumni, Faculty, and Friends,

It is my pleasure to introduce the Winter edition of the ASCE Bruin. In this edition, you will read about all the exciting events we've had this past quarter. This includes our revamped mentorship program, newly updated social media outlets and website, the very successful seismic outreach program, and our wide range of diverse and dedicated civil engineering projects. Through the hard work of the 2014-2015 ASCE Officer Board and the involvement of ASCE's members, we have been able to accomplish much.

Founded in 1959, ASCE at UCLA has come a long way. We currently have 8 competitive projects, 33 officer positions, and over 180 student members. Last year, we took 4th place at the Regional ASCE Pacific Southwest Conference (PSWC) and earned the title of HSSEAS Larger Student Organization of the Year. Along with those awards, we also started the ASC Construction Management Team and the Seismic Outreach Program (information on both can be found in the Newsletter on pages 11 and 15, respectively). This year we look forward to an even more successful year. Due to the help of the UCLA Civil and Environmental Engineering Department, we were able to host one of the largest UCLA C&EE Career Fairs in recent history. We also recently produced the UCLA C&EE Departmental Video which will be made available to incoming civil engineering students. This quarter we plan to continue strong as we prepare for the PSWC which will take place in April at the University of Arizona.

I would like to thank all those who have sponsored and supported ASCE at UCLA. Thanks to your contributions, ASCE at UCLA is able to thrive as an organization. The resources that allow us to continue our community service programs, projects, and professional development would not be possible without the generosity of our school, faculty, advisors, and industry sponsors. I am truly thankful. If you wish to contact myself or any of our outstanding officers, please don't hesitate to do so. Contact information is accessible from our website at www.ascebruins.org. I would like to wish everyone a Happy New Year, and please keep in touch. GO BRUINS!

Sincerely,

Maxwell Armenta, President
ASCE at UCLA 2014-2015

Maxwell Armenta and Suraj Patel at Family Sorting Night 2014.

Maxwell Armenta and Marcos Salazar at Staff-Student BBQ

OFFICER RETREAT

This past fall quarter, the ASCE Officers bonded at the annual retreat in beautiful Big Bear.

By Gabriel Concepcion

The 2014 Annual Big Bear Officer Retreat began the American Society of Civil Engineers at UCLA's return to the golden years of professionalism, academics and, perhaps most importantly, the creation of a community. A plethora of exciting events that included an adventurous hike through Big Bear and the unforgettable test of faith that is Giants, Wizards, and Elves, accompanied by the amazing hospitality of ASCE-UCLA's exceptionally pleasant and sociable alumni made the Big Bear Officer Retreat a success. This fantastic retreat stretched between Thursday and Sunday of Zero Week. Twenty-seven newly elected, young officers arrived at Big Bear Mountain brimming with energy, enthusiasm and eagerness to help ASCE-UCLA have another successful year as UCLA's Best Large Engineering Student Organization. Within the tranquility and beauty of the Big Bear Mountains, this year's excellent collection of student leaders developed a stronger sense of unity, planned and shared visions and ambitions for ASCE-UCLA's future, and demonstrated a compelling passion for flawless execution through teamwork, management and focus. The weekend offered non-stop amusement through games such as Home Town and Egg Protection, and at the same time provided ample time for reflection through goal setting and other inspiring ASCE-UCLA traditions. As enjoyable as retreat was, moving forward, future retreat organizers may further enhance the experience by preparing even more games for the weekend. An arsenal of at least 50 different activities would do wonders for future retreat participants. Nevertheless, the Big Bear Officer Retreat truly legitimizes the fact that everyone in ASCE knows how to enjoy and have a great time anywhere, anytime, and with anyone. It becomes a clear, and easy choice for anyone looking for an unforgettable experience of fun, joy, and laughter with extremely friendly and approachable people to join ASCE in our General Members Big Bear Retreat in Winter 2015.

ASCE officers dressed in UCLA colors for the football game against Utah.

ASCE officers play Giants, Wizards, and Elves.

Sam Zabb-Parmley and Thomas Choi getting intimate as they pass on a lifesaver in the officer bonding games.

CAREER FAIR

This year, the Fall Career Fair was very successful with 20 companies and 48 company representatives in attendance.

By Vatsal Gupta

ASCE at UCLA is a non-profit, student-run club that gives students the opportunity to learn and grow outside of the classroom. Students can participate in a variety of projects, volunteer in philanthropic events, meet professors/industry, and grow as individuals. Our career fairs and info-sessions give the industry an opportunity to meet both graduate and undergraduate students in a more intimate environment. The career fair is beneficial to companies seeking motivated students as potential interns and full-time employees. It also gives the students a chance to interact with the representatives and gain valuable professional experience – while hopefully also getting a chance to find employment!

Johnfavour Ng talks to the representative from McCarthy.

In addition, the revenue from the Career Fair is one of the primary ways in which we fund our projects throughout the year. This year, the Fall career fair was very successful with 20 companies and 48 company representatives in attendance. ASCE Officers took volunteer shifts throughout the setup, career fair, and cleanup phases of the event to ensure it ran smoothly. The feedback from industry representatives was exceptional and all reservation details were taken care of efficiently and effectively.

Our Career Fair team aims to make the Winter Career Fair even bigger and better. ASCE at UCLA has recruited 3 Industry Liaison interns who will be helping the Career Fair Coordinator, the Speaker Coordinator and the Field Trip Coordinator in making their respective events more successful.

SPEAKER COORDINATOR

Throughout the quarter, ASCE at UCLA invited companies representing all aspects of civil engineering to speak about their company, their industry, and the types of projects they work on.

By Matt Stewart

ASCE at UCLA members enjoyed a variety of professional development events this quarter. ASCE at UCLA brought in the Los Angeles Younger Member Forum of ASCE to host a resume writing workshop and the UCLA Undergraduate Writing Center to host a cover letter writing workshop. Both events helped our members highlight their skills when applying for internships and jobs. Throughout the quarter, ASCE at UCLA invited companies representing all aspects of civil engineering to speak about their company, their industry, and the types of projects they work on. We heard from Kimley-Horn, Walsh, BNBuilders, Walter P Moore, and Turner Construction this past quarter and are looking forward to info sessions next quarter with the Los Angeles Bureau of Sanitation, W.E. O'Neil, Accenture, W.L. Butler, Pankow, the California High Speed Rail Authority, Engeo, and AECOM. Company info sessions serve as a valuable resource for younger students to learn about the various careers a civil engineering degree can lead to and are an opportunity for all students to network with company representatives. ASCE at UCLA invited Brad Fry and Steve Taylor from W.E. O'Neil to host another two great workshops near the end of the quarter. Students learned how to effectively lead a team of people in the Managing Teams Workshop hosted by Brad Fry and learned how construction companies schedule projects in the second workshop, presented by Steve Taylor.


Matt Burke talks to the representatives from Walsh Consutrction.

OUTREACH

This quarter, ASCE at UCLA perfected its barbecuing skills with a student professor barbecue and an Alumni Tailgate at the UCLA-Arizona football game.

By Allie Light

ASCE at UCLA is the best engineering club on its campus, but why should our excellence and legacy end when diplomas are handed out? Keeping Alumni and professors connected to current students and the ASCE chapter at UCLA initiates a positive feedback loop of communication between undergraduates, faculty, and graduates. And thus better spreads information, knowledge, and experience throughout the civil engineering community.

This quarter, ASCE at UCLA perfected its barbecuing skills with a student-professor barbecue and an Alumni Tailgate at the UCLA-Arizona football game. The student-professor barbecue is one of the only ASCE events in which both faculty and students can crack more than a few math-based jokes without the pressure of wasting valuable class time. It's important for students to confirm that their professors do not in fact live in their offices, but rather have interesting and exciting lives outside of school. The 4th annual ASCE Alumni Tailgate, much like the student-professor barbeque, provided a casual atmosphere, which prompted even the shyest engineers to open up and share a few laughs. Current UCLA engineering students were able to reconnect with their recently graduated friends as well as mingle with older alumni and learn about life after college. Events like the student-professor barbecue and Alumni Tailgate are important for students, industry engineers, and professors—to let them relax, and connect in an informal setting.

This coming winter quarter, ASCE at UCLA will be hosting another student-professor barbecue as well as an Alumni Career Panel. As UCLA civil engineering students begin to get summer internship offers, it is extremely helpful for them to have an outlet for their questions about career paths and specific companies. And who better to share their hindsight than engineers who are currently working in industry? Look out for more information regarding the Alumni Panel or email ASCE at UCLA's Outreach Chair, Allison Light, if you would like to be involved!

COMMUNITY SERVICE

In November ASCE ran its own booth at the annual "Exploring Your Universe" STEM Fair where around 6,000 K-12 students visited the various booths on campus.

By Jon Wigman

ASCE at UCLA was very active with community service this past fall quarter. On Halloween we partnered with YMF and had some of our members volunteer at Vine Street Elementary Halloween Carnival. ASCE members appropriately wore high visibility construction vests that glowed in the dark as we helped out with the haunted house. In November ASCE ran its own booth at the annual 'Exploring Your Universe" STEM Fair where around 6,000 K-12 students visited the various booths on campus. Our booth explained basic structural engineering principles, how basic water filters function, and what a civil engineer does. Children thoroughly enjoyed testing tinfoil canoes that they constructed at our booth and finding out how much they could hold precisely using our scales. In December, we held our largest event of the quarter with over 220 sixth grade participants from Paul Revere Charter Middle School. This was our Seismic Outreach program's second time hosting a school at UCLA where students build K'NEX structures with our guidance and teachings about structural engineering. Their structures are then put through a simulated earthquake on a shake table at UCLA where industry professionals judge the designs and aesthetics of the buildings.

Abby Gunning, Zach McFann, Jon Wigman, and Maxwell Armenta volunteering at Vine Street Elementary.

On the horizon next quarter are blood drives, elementary school demonstration, a city of the future judging competition and many other events. This year our Seismic Outreach program is running the program twice, so in the spring we will be hosting even more students!

MENTORSHIP

The families are ways to make the larger ASCE at UCLA community a little smaller by offering a tight group to study, socialize, and compete with in various family challenges.

By Blake Wyatt

Mentorship Events

This fall was the start of an exciting year of growth for the ASCE at UCLA mentorship program. Our family program grew from around 60 to now include over 80 mentors and mentees and social and educational events were held to help new students transition to life at UCLA. The quarter began with Engineering Welcome Day, a day where all new engineering students learn about and are welcomed into the program they were admitted into. ASCE at UCLA Mentorship played a major role in EWD through running an information booth and heading the mentor mentee pairings, tour, and icebreakers. Through this event, many new students found out about the programs and projects we offer and were eager to join.

The next major event held by ASCE at UCLA

The Au Family takes their first picture together at Family Sorting Night.

mentorship was Family Sorting. After filling out surveys for mentor or mentee preferences, the participants joined to meet their ASCE mentors or mentees and to be sorted into their new families. The families are ways to make the larger ASCE at UCLA community a little smaller by offering a tight group to study, socialize, and compete with in various family challenges. The main family challenge this quarter was a Holiday Card photo challenge, with each family getting together to pose for cheerful holiday themed photos. Winners of these challenges get points for their family and the family with the most points at the end of the academic year will win a prize that is to be determined.

The major academic event held this quarter was the fall class planning workshop. Ms. Jan LaBuda, an engineering academic advisor, came to give a presentation on how to properly plan ones schedule for the year and how to use degree audit. The event was well received by attendees, so there will likely be a winter workshop as well.

What is next for Mentorship?

The excitement continues next quarter for mentorship. There will be new family challenges, more opportunities to join the family program, another class planning workshop, and an off campus social event. I am looking forward to the growth of our mentorship program and the many enjoyable events to come.

SOCIAL

Adding to the well roundedness of our ASCE chapter at UCLA, our club boasts a strong social component in addition to the professionalism and experience already provided.

By Ariel Siegel

This past quarter, we were able to host numerous social events to create stronger interclub relations as well as to recruit new members to our organization. These events included an off campus social to laser tag as well as on campus socials celebrating our chapter's 55th anniversary, Halloween, and Thanksgiving. In addition, we were able to host joint events between our social and mentorship programs with the annual gingerbread house making, complete with a white elephant gift exchange and screening of Elf, as well as a joint event with the UCLA Cal Geo chapter by hosting a pumpkin carving social. We hope to continue to provide a great and unique social aspect to our chapter next quarter through our annual ski trip to Big Bear and joint events with the ASCE chapters at CSULB and USC.

ASCE members at the Gingerbread House Social.

FIELD TRIP

The main purpose of these trips is to expose members of ASCE at UCLA to different fields within civil engineering.

By Abby Chung

As Field Trip Coordinator, I find and plan field trips for our members to attend. The main purpose of these trips is to expose members of ASCE at UCLA to different fields within civil engineering. There were two field trips this quarter, both to construction sites. For the first trip, we visited Universal Studios, where Morley Builders is building a 4000-car parking structure. Along with a tour of the site, the project engineers gave our students a presentation on concrete preconstruction, which was interesting and also extremely useful for those planning on competing in the Sparks Competition in February. On the second trip, we visited W. E. O'Neil's Howard Hughes construction site. Students received a tour and presentation about the project, which will be a large residential complex right by the Howard Hughes Center in Los Angeles. There are a couple of field trips in the works currently for next quarter, including a visit to structural design firm. In the spring quarter, we will be visiting Simpson Strong-Tie, an international structural building component supply company. I am excited to give our members even more opportunities to explore civil engineering with these upcoming trips.

ASCE members visit the construction site of the 4000-car parking structure at Universal Studios.

ATHLETICS

This fall was a quarter to remember for ASCE at UCLA athletics.

By Ryan Dudley

This fall was a quarter to remember for ASCE at UCLA athletics. The club participated in men's flag football and co-ed volleyball. Football, going by the name Kickin' Asphalt, went undefeated to win ASCE at UCLA's first intramural championship in recent memory. The boys cruised through the regular season and the initial rounds of playoffs, winning each game handily. The first real contest came in the championship game, which was won on a go-ahead touchdown pass with 2 seconds left on the clock. Volleyball did not fare as well and did not manage to make playoffs this year, but not due to a lack of heart. The IM athletes are looking forward to going for their second shirt of the year in winter quarter, where we will participate in men's basketball and a co-ed sport yet to be determined.

Regular Season Record:

Football: 3-0-1

Volleyball: 0-4

IM Football team poses in their championship picture.

IM Volleyball Team poses for their team picture.

ASCE Officer Board 2014-2015

A Word from Membership Chair

By Ryan Worley

MEMBERSHIP

Greetings ASCE Members,

Thank you for being a part of the American Society of Civil Engineers for 2014-2015 academic year. I hope you all have benefited from the plethora of professional and social opportunities that have been offered to you throughout the latter part of 2014.

As of this moment, we have 188 active members in the club, and it is predicted that we will exceed the 200 member mark during the beginning of winter quarter. This puts us on track to exceed the membership mark of last year. Nice job everyone!

This past quarter, we have enjoyed massive turnouts at nearly all of our events. As membership chair, I would love to keep this momentum rolling as we move into the new year. This upcoming quarter, we look to ramp up project production as we creep closer towards the Pacific Southwest Conference. At this event, six of our projects will compete against all other colleges in our region (i.e. Stanford, Cal Poly, USC). We like to look at this event as a place where we can assert our status as best ASCE chapter on the west coast! I hope that all of you can find time to participate in projects this quarter to help our club achieve the number one status that we deserve.

Finally, I would once again like to extend and thank you to everyone involved in ASCE. You all are the reason as to why UCLA ASCE is, in my mind, by far the best chapter in the area. Keep up the good work everyone. I look forward to seeing all of you at workdays in the upcoming quarter!

Best Regards,

Ryan Worley, Membership Chair
ASCE at UCLA 2014-2015

Family Sorting Night

Pumpkin Carving Night

PROJECTS

Projects are the salient reason why ASCE at UCLA is so special.

By Norman Chak

An integral part of ACSE, projects provide hands-on opportunities for members to apply their classroom knowledge. Whether casting a concrete canoe or building a water filtration system, members develop valuable engineering and life skills. Although projects are extremely meaningful, they also allow for fun through team bonding and socials. With competitions coming up soon, all nine projects will be kicking into high gear for Winter Quarter. We would like to thank our members for coming out to our previous workdays and hope to see them in our upcoming ones. If you're new and interested in getting involved, feel free to come by a workday at any time!

The majority of our projects will be competing at PSWC from April 9th-11th. However, ASC 67 will be competing Winter Quarter, from February 4th - 7th and Seismic Design from March 31st - April 3rd.

Concrete Canoe Casting Day

Determining the density of sand during the GeoWall workday.

Seismic Design Competition in Anchorage, Alaska

Measuring the elevation change of Janss Steps during Surveying's Workday

Steel Bridge assembles last year's bridge during its workday.

ASC 67

So far ASC 67 has been working on practice problems, learning as much as they can about the construction process as well as the technical details.

By Norman Chak

ASC 67 has three teams this year: Design Build, Heavy Civil, and Mixed Use. Each of the three projects have roughly the same format in which students are given a prompt and carry out a hypothetical pre-construction job in a 16 hour competition day. However, each team differs in their focus as detailed by their names. Heavy Civil is geared towards the takeoffs, cost-estimation, and scheduling of roadways and bridges whereas Mixed Use concentrates on mixed use buildings. Design Build is unique in that it includes design development in addition to typical pre-construction subjects.

ASC 67 Conference in Reno last school year.

So far ASC 67 has been working on practice problems, learning as much as they can about the construction process as well as the technical details. Working with industry coaches, our teams are slowly but steadily becoming prepared for competition in February.

With increased workdays in Winter Quarter and with the help of our coaches, we are committed hard to working right up until the competition. Although our teams are very new, we expect to learn a lot at competition and compete strongly. After competition, ASC 67 will continue to have workdays so as to compete even harder next year!

CONCRETE SPORTS

With the theme and the mix design ready, we look forward to cast our prototype within the first couple of weeks of the upcoming winter quarter.

By Karan Patel

Concrete Sports had a solid fall quarter this year. Thanks to our amazing members for their dedication towards the project. As planned, we had total of three project workdays throughout the quarter. During our first workday, we kicked of the fall quarter by reviewing the project logistics from previous year, by discussing new strategies to stay productive and successful for this year and we also brain stormed different theme ideas for the project. While we were still waiting for the release of rules and specifications for this year, during our second workday, we practiced bowling some frames on the grass.

After analyzing the history of changes made in rules and specification in past recent years, we anticipated a new twist this year as well. At the end of the fall quarter we received our rules for this year's competition and as expected there was a major change made in the project. Sadly, the 2 minute skit was removed from the project. This gives us more time to work on our concrete mix design and fine tune our bowling skills before the conference. Therefore, during our third and final workday of the quarter we finalized the mix design as well as the theme of the project. With the theme and the mix design ready, we look forward to cast our prototype within the first couple of weeks of the upcoming winter quarter. We are very excited for our upcoming busy yet productive winter quarter. Remember, it's never too late to join our project.

Bowling practice at Concrete Sport's workday.

CONCRETE CANOE

With a lighter concrete design and more careful depth control, we are projecting a final canoe weight of 160 pounds, compared to last year's 230.

By Abby Gunning

Concrete Canoe started work early this fall in order to be ready for Casting Day at the end of the quarter. This year, we chose a medieval theme for the canoe, with the name **Arcturus**, which is believed to be the origin of King Arthur's name.

This year, over 70% of our paddling team competed in last year's regional competition. Due to the experience of our returning athletes, we have designed our canoe to be sleeker and faster. By adding a foot to the canoe and making it narrower and rounder on bottom, we have increased our canoe's speed. Although this compromises some maneuverability and stability, our seasoned paddlers have ample technique and experience to steer this competitive canoe. We have increased paddling practices this quarter to twice a week, with one practice focusing on conditioning, and the other on technique.

Due to the success of last year's mix design, our engineers have focused on making minor changes to lighten our concrete as well as testing colored concrete. With a lighter concrete design and more careful depth control, we are projecting a final canoe weight of 160 pounds, compared to last year's 230. Additionally, by incorporating colored concrete in our final design, we will produce a much more visually impressive product.

Due to issues with the foam cutter used last year, our team had to come up with a new method of constructing our mold. Using a projector, we were able to trace the cross section shapes of the canoe on half foot blocks. These sections were then cut out by our members using a hot wire cutter. After gluing together all sections, the mold was sanded, painted, epoxied, and finally covered with contact paper.

Casting Day took place on December 6th and lasted a full 7 hours. A total of 35 engineers volunteered, many of whom stayed the entire day. By casting at the end of Fall Quarter, we will be utilizing Winter Break for the canoe to cure. When we return from Winter Break, we will be ready to demold the canoe and start work on the final product

Paddling practice for Concrete Canoe

Concrete Canoe Casting Day

ENVIRONMENTAL DESIGN

Our project is dynamic; we tackle problems to remove a variety of different contaminants including phosphates, nitrates, and other dissolved particles.

By Thomas Choi

The Environmental Design team is one of the only teams on campus to focus on wastewater treatment systems. Our project is dynamic; we tackle problems to remove a variety of different contaminants including phosphates, nitrates, and other dissolved particles.

Over the fall quarter, we spent a series of workshops exploring fundamental methods to treat wastewater, namely a slow sand filter. Slow sand filters are proven and effective systems to treat water in lesser developed countries. Their advantage is their simple build design and easily accessible materials. Over the course of two weeks we successfully completed the filter which worked remarkably well to remove much of the turbidity from a heavily contaminated sample of water. We demonstrated the system at a local K-12 STEM fair on campus which both the parents and the children enjoyed.

Water treatment at Environmental Design's workday.

We also held a social night where we hung out with the surveying team to eat Korean BBQ. Much more socials like this are to come. This year, our rules are to remove chromium (VI) and copper (II) from a sample of wastewater. We will continue to explore approaches to accomplish this through coagulation, flocculation, and ion exchange techniques. If you're interested how we get our clean water or just the chemistry and the engineering behind the subject, the Environmental Design team is the place to be.

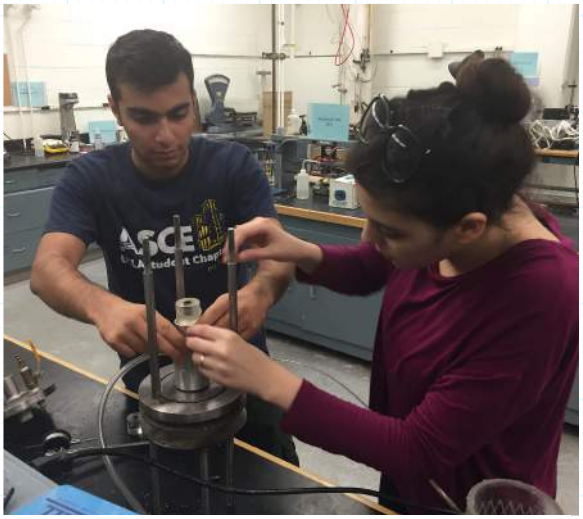
GEOWALL

We hope that even more people will join Geo Wall to expand the exposure to geotechnical engineering to a greater number of students.

By Rhonda El Hachache

This year, GeoWall has been very successful in completing required laboratory tests for use in writing the final report. After buying a sample of new sand that will be used for practice builds this year, we performed, as well as introduced to new members, several lab tests including sieve analysis and triaxial. The new members were very eager to learn these tests because they had never been exposed to them before, and they will be taking classes that deal with them in the future.

We have very few returning members so a lot of the process has been teaching new members the background of GeoWall and geotechnical engineering in general. As such, the goal for next quarter is to continue teaching new members more about the project so that they may better lead it next year. Additionally, we will be completing the final report to submit to nationals, and we will be performing many practice builds with test designs to prepare for both national and regional competitions. We hope that even more people will join GeoWall to expand the exposure to geotechnical engineering to a greater number of students.



Assembling the triaxial test apparatus at the GeoWall workday.

SEISMIC DESIGN

With a solid foundation returning from last year's Seismic Design Team, along with promising new members, our industrious team was able to produce an innovative and robust structural design that is sure to be a strong contender for first place at this years competition.

By Samuel Zabb-Parmley

After returning from last year's competition in Alaska this past July, the UCLA Seismic Design Team has made significant progress towards this year's competition in Boston after a productive fall quarter. With a large membership of both eager newcomers and returning members, we have aimed to challenge returners while bringing the new members up to speed. Starting in the third week of fall quarter, workdays were held twice a week to educate and teach new recruits about designing, constructing, and analyzing balsa wood model structures. Members gained hands on experience by being challenged to design and construct their own one and two story buildings, which were then tested with gravity loads to failure. Furthermore, short educational lectures held at the start of each workday helped to teach new members about structural and earthquake engineering design. As fall quarter concluded, we hosted SketchUp and SAP2000 tutorials to expose our undergraduate members to modeling programs essential to our success at competition.

Cutting balsa wood during Seismic Design's workday.

Besides general workdays, design meetings were also held twice weekly for experienced members, with new recruits being added throughout the quarter. The first two meetings were utilized to thoroughly read the competition rules in an effort to educate members on this year's design guidelines. After these initial meetings, design workdays served the purpose of challenging members to create innovative designs for our structure at competition. Additionally, we have been meeting weekly with our faculty advisor, Professor Jian Zhang, to discuss the structural design ideas that were introduced by the design team. With a solid foundation returning from last year's Seismic Design Team, along with promising new members, our industrious team was able to produce an innovative and robust structural design that is sure to be a strong contender for first place at this year's competition. Lastly, our design proposal has been submitted for competition, and we are geared up for an exciting winter quarter in which we plan to build structural prototype models to test before constructing the final competition structure.

SURVEYING

With a prepared schedule, the project this quarter focused on teaching basic surveying techniques such as tripod set-up and using the automatic level to measure elevation change around UCLA.

By Christian Tran

Surveying this quarter started earlier than the previous years, with three workdays a week already starting in week 3. With a prepared schedule, the project this quarter focused on teaching basic surveying techniques such as tripod set-up and using the automatic level to measure elevation change around the UCLA campus, such as Court of Sciences and the Janss Steps. Other activities done during workdays include tripod set-up races and note taking, which will be important during the Pacific Southwest conference.

With the rules out for PSWC, winter quarter will be focused on using the newly obtained total station, which was generously lent to the surveying team by Professor Kayen from the civil engineering department. Topics which will use the total station will include triangulation and bearing distance, both difficult yet essential surveying subjects. This year, we hope to place top three in the surveying conference competition by having weekly team practices.

Setting up the total station during Surveying's workday.

SEISMIC OUTREACH

As we look towards the future of the program, we see huge potential to affect a plethora of children in the LA area.

By Ryan Worley

On December 5th, 2014, 225 middle school students attended UCLA for the finale of the Seismic Outreach Program. Earlier in our program, ASCE volunteers twice visited Paul Revere Middle School to teach kids about Seismic Engineering and its importance in California. This was done through interactive lectures, videos, and physical, real-world examples. The sixth grade students were also given a hands-on project, where they were able to build a model skyscraper out of K'NEX.

At the finale, students were able to test their structure on UCLA's shake table and receive feedback on their design via professionals from Englekirk, Walter P Moore, SEOSC, and YMF. Students were also given a tour of UCLA by individuals from ASCE, Chi Epsilon, Engineering Ambassadors, and Tau Beta Pi.

Shake table testing of the K'NEX structure made by middle school students.

For the next event, Seismic Outreach is looking to invest in a PA system or megaphone, as it was extremely hard to communicate with the kids using only our voices. We also plan on taking feedback from teachers and industry professionals to help improve our program.

As we look towards the future of the program, we see huge potential to affect a plethora of children in the LA area. We are already in contact with two additional schools that want to participate in our program later in the academic year. We have also gotten very positive feedback from all professionals and teachers involved with the event, many of whom are expressing interest in further participating in our program. We hope to get more ASCE members to come out to Seismic Outreach in the upcoming quarter. Please contact Ryan Worley (on the ASCE website) if you are interested in volunteering!

STEEL BRIDGE

Our goals for next quarter are to fabricate the bridge as efficiently as possible so that we may finish quickly and provide quality control with respect to the design and to welding.

By Alicia Pedneault

In fall quarter, our design team worked out each of the elements of our bridge to make it successful, from the global scale analysis to the connection design. We used SAP2000 for measuring deflections and optimizing each piece of the bridge. A few of our members have also learned SolidWorks in order to determine the stress concentrations of our connection pieces. We have been practicing the build portion of our competition using the bridge from last year and teaching the members of the competition rules. Additionally, we have created mini-bridges that will later be used for timed trials to create a fast, efficient build team.

Welding for Steel Bridge

We hosted an AutoCAD workshop in conglomeration with Seismic Design and Concrete Canoe, led by our Co-Project Manager Paul Lee. This allowed for members of our team as well as other members of ASCE to develop their skills using this program. We also collaborated with Chi Epsilon Honor Society and the Seismic Design Project to have a SAP2000 workshop with KPFF. Here, we learned how to analyze a 2D truss for deflection under a load as well as acceleration and deflection under seismic activity, which allowed for each of the projects to acquire the skills necessary to perform their analyses.

Our goals for next quarter are to fabricate the bridge as efficiently as possible so that we may finish quickly and provide quality control with respect to the design and to welding.

MEDIA

Our biggest goal is to not only advertise the many diverse ASCE events but to also acknowledge all our members through various social media outlets like our Facebook Page, Instagram, and Twitter.

By Suraj Patel

This past fall quarter marked a significant time for ASCE Media. A whole new website (ascebruins.org) was created with the main of goal of leaving the viewer with the impression that this is an active and ambitious professional organization. Megan Nazareno spearheaded an amazing Civil Engineering Department Video that aptly describes civil engineering to potential students. A new program called Project Engineer of the Month was instated so that the hard work and dedication that ASCE members put into projects do not go unnoticed. Our biggest goal is to not only advertise the many diverse ASCE events but to also acknowledge all our members through various social media outlets like our Facebook Page, Instagram, and Twitter. By recognizing you, an ASCE member, through our media outlets and Newsletters like this Fall Quarter 2014 ASCE at UCLA Newsletter, I sincerely hope that you are left with the feeling that we are sincerely honored to have you be a part of this organization.

ASCE at UCLA hosts a number of exciting events that are greatly beneficially in terms of a career or getting to know others. So please check the website, Twitter, Facebook page, and Instagram to make sure that you never miss one of these great events. I will make sure it always stay updated so you never miss a beat.

www.ascebruins.org

www.facebook.com/asceucla

@asce_bruins

@asce_bruins

ASCE at UCLA

A binding bet was made between Maxwell and Suraj.

IM Football

Pumpkin Social

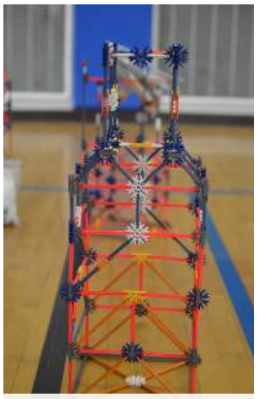
Seismic Design Competition

Gingerbread social

Gingerbread social

Staff-Student BBQ

Officer Big Bear Retreat



Seismic Outreach Event

Seismic Outreach Event

Family Sorting Night

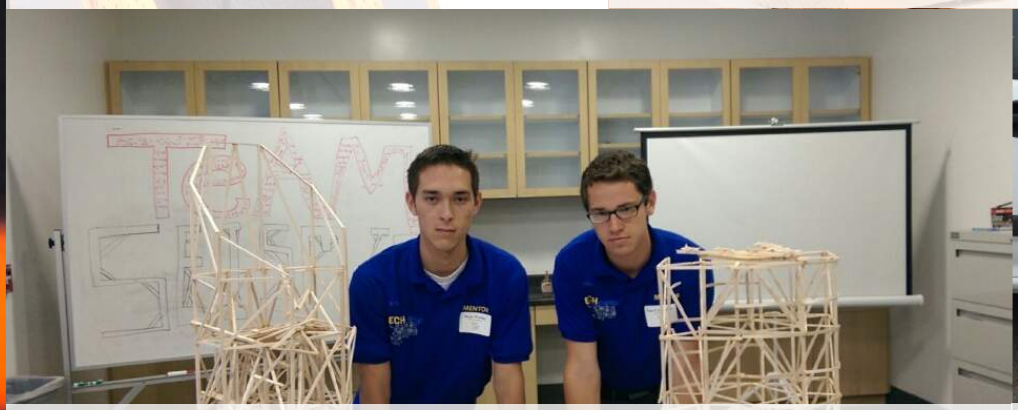
Fall Career Fair

ASCE WORKS

Over the past summer, many ASCE members interned in the various industries of civil engineering.

Maxwell Armenta with W.E O'Neil

Paul Moe Lee with Nourish International in Guatemala

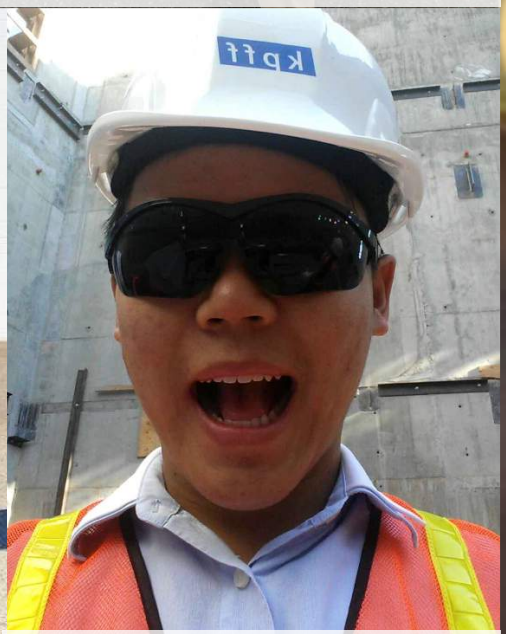


Ryan Worley and Sam Cummings with Tech Camp

Suraj Patel with SF DPW

Michael Tsai with SF MTA

Seema Barua with ENGEO



Andy Luu with KPFF

WINTER QUARTER EVENTS

January 13th, 6PM
Boelter Penthouse
WEO Public Speaking Workshop

January 14th, 6PM
Boelter Penthouse
Accenture Info Session

January 16th-19th
Big Bear
ASCE Annual Ski Trip

January 20th, 6PM
Boelter 4275
LA Bureau of Sanitation Info Session

January 27th, 6PM
Boelter Penthouse
WEO Info Session

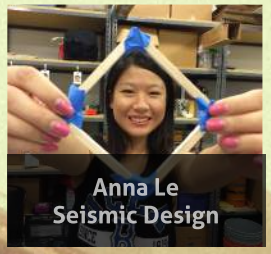
February 12th
Ackerman Grand Ballroom
ASCE Winter Career Fair

PROJECT ENGINEERS OF THE MONTH

October


Ben Thompson
Steel Bridge

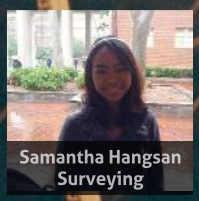

Will Yoshida
Concrete Canoe

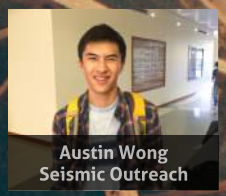

Anna Le
Seismic Design

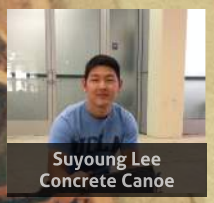
November/ December


Paul Song
Stephen Ahn
Seismic Design

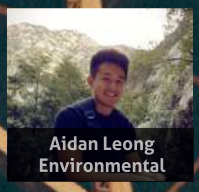

Kamal Sheokland
Concrete Sports


Samantha Hangsan
Surveying

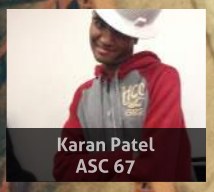

Austin Wong
Seismic Outreach


Suyoung Lee
Concrete Canoe


Johnfavour Ng
Geowall


Aidan Leong
Environmental


Cecilia Wong
Steel Bridge


Karan Patel
ASC 67

OFFICERS

President
Maxwell Armenta
max.are.menta@gmail.com

Vice President
Gabriel Concepcion
gabrielconcepcion93@gmail.com

Treasurer
Zachary McFann
zmcfann@ucla.edu

Project Executive/ ASC67 Mixed Use Team leader
Norman Chak
nchak11@ucla.edu

Graduate Advisor
Davis Thomas
davis.randolph.thomas@gmail.com

Seismic Design Co-PM
Samuel Zabb-Parmley
samzp@ucla.edu

Secretary/ Steel Bridge Co-PM
Alicia Pedneault
apedneault@ucla.edu

Career Fair Coordinator
Vatsal Gupta
vatsalmgupta@gmail.com

Speaker Coordinator
Matthew Stewart
mattstewart@ucla.edu

Field Trip Coordinator/ ASC67 Heavy Civil Team Leader
Abigail Chung
achung14@ucla.edu

Graduate Advisor
Kyle Tomita
xkit42x@ucla.edu

Seismic Design Co-PM
Michael Daciolas
michaeldaciolas@gmail.com

Surveying PM
Christian Tran
christiantypet@ucla.edu

Practitioner Advisor
Dr. William Goodin
william.r.goodin@gmail.com

Faculty Advisor
Dr. Jian Zhang
zhangj@ucla.edu

Chi Epsilon Liaison
Michael Tsai
michaeltsai2011@yahoo.com

CalGeo/ITE Liaison
Clint Bannout
bannoutclint@gmail.com

ASC67 Design Build Team Leader
Samuel Cummings
samuelcummings98@yahoo.com

Environmental Design PM
Thomas Choi
thomas.tchoi@gmail.com

Concrete Sports PM
Karan Patel
karan_50088@yahoo.com

Membership Chair/ Seismic Outreach Coordinator
Ryan Worley
rcworley1111@yahoo.com

Mentorship Chair
Blake Wyatt
bwyatt@ucla.edu

Social Chair
Ariel Siegel
ars.siegel@gmail.com

Community Service Chair
Jonathan Wigman
jonathanwigman@gmail.com

Outreach Chair
Allison Light
allison.light@yahoo.com

Conference Coordinator
Kevin Nguyen
nguyennkevin@gmail.com

Media Director
Suraj Patel
suraj.patel@yahoo.com

Historian
Megan Nazareno
mazareno@ucla.edu

Athletic Director
Ryan Dudley
ryanjdudley@ucla.edu

Concrete Canoe PM
Abigail Gunning
agunning@g.ucla.edu

Steel Bridge Co-PM/ MLAB Liasion
Paul Moe Lee
paulmoelee@gmail.com

GeoWall PM
Rhonda El-Hachache
rhondaelhachache@gmail.com