February was a busy month and I would like to thank all of you who participated in the events that were hosted by the Branch, YMF, student chapters and committees.

Last month was also the LA Section Board of Director’s meeting and one of the items discussed was the annual awards program hosted by each Branch. As you may know, every year the Branch tries to recognize the exceptional work of our local engineers and the outstanding projects that have been constructed throughout the year. Award recipients at the Branch level are then nominated for recognition at the Section level, and then possibly for Region 9 and National.

This year the LA Section, which covers a vast area, would like to see more of our local projects receiving recognition beyond southern California. As the Section moves towards this goal we need to start making our awards application process and award categories more consistent with those of the Section and Region 9. This month I will work with our Branch Board on re-evaluating our awards program application to modify and simplify where needed. There is plenty of construction going on in the Inland Empire and more of our projects and engineers deserve some recognition. The updated application will be circulated in April and I strongly encourage you to submit a nomination.

Sincerely,

Edwin Quinonez, P.E.
San Bernardino and Riverside Counties Branch President
TUSTIN BLIMP HANGERS

The Marine Corp Air Station in Tustin, CA was originally built as a blimp base in 1942 as Santa Ana Naval Air Station (NAS). Blimps were used to patrol America’s coastline primarily to watch for enemy submarines During World War II. At first 6, then 12 blimps operated out of the station. These hangers became a necessity when the strong Santa Ana winds blew in from the desert disrupting blimp operations. The station had 6 mooring circles and its own helium generating plant.

...continued on page 4
New Year, New Opportunities

The year 2013 was so last year. Now it is all about 2014. Seniors are excited for graduation. Juniors are excited to be done with, perhaps, their hardest year in college. Sophomores are excited for summer break, while freshmen are thrilled to not be called freshmen next year. In less than two months, PSWC will begin and we have already prepared our teams. We are also preparing for our Mock Interview workshop/Finance 101 held here at CBU. Another bonus, the President Elect from ASCE will also be giving a speech on the same day. This is a great opportunity to ask him questions about Engineering and why you should get involved with ASCE. We hope for all of you to have an awesome 2014.

Incoming President-Elect @ CBU
February 28th

- The University of Michigan, PhD (Transportation), 1972; MSCE, 1970
- Yale University, MCP (City Planning & Traffic Engineering), 1965
- The University of Akron, BSCE, BS (Math), 1963
- PE: California, Colorado, Florida, Georgia, Louisiana, Ohio, Texas

Robert D. Stevens, Ph.D., P.E., AICP,

Upcoming Events:
- Hyperion Treatment Plant Tour Feb. 20th
- Mock Interview/ Financial 101 Feb. 28th
- President-Elect Presentation Feb. 28th
- S.N.J.F Job Fair March 7th
- ASCE SB/R Branch, YMF & Student Softball Tournament March 8th
- Broomball March 22nd

Past Events:
- End of the Year Bowling Party
- Wilshire Grand Tower Technical Tour
- ASCE Chapter Meetings
- Donut Day
- CBU Club Fair

www.facebook.com/lancerasce
All building materials were made fire-resistant to protect against incendiary bombing. Treatment involved a vacuum process of salt impregnation. During construction, high winds caused a partial collapse of some members. The ruined materials were piled for incineration, but would not burn; so the rubble was buried on site. Years later, a farmer leasing ground on the site plowed up some of the materials. They were reported to still be in good condition.

At the time of their construction, the twin U.S. Marine Corps (USMC) blimp hangars were believed to be the world’s largest buildings of timber construction that provided the largest covered open space between supports of any building in the world. Each building required over 3,000,000 board-feet of lumber. Normally, steel would have been used for framing; but the demand for steel for ships and other military objects superseded the facility’s construction needs.

Each hangar was capable of housing six lighter-than-air craft. The hangars are over 1,000 feet long with a ceiling height of 178 feet. Clear area covers nearly five and one-half acres. The doors are composed of six leaves, weighing 26 to 29 tons each.

Following the end of World War II, the Santa Ana NAS was decommissioned by the Navy in 1949. It was then transferred to the Marine Corps in 1951, and was renamed Marine Corps Air Facility Santa Ana by 1965. It was later renamed Marine Corps Air Station Tustin.

The Marines used Tustin as their primary West Coast helicopter base, operating Medium & Heavy Transport and Attack Helicopter squadrons. A small 3,000 foot runway was built in between the “V” formed by the two blimp hangars (which must have made for interesting turbulence during crosswinds), along with a control tower nestled in between. Two modern hangars were added on the edge of the blimp mooring pad for helicopter maintenance.

The unique facilities at Tustin were very well suited to large-scale helicopter operations, as the blimp hangars were capable of providing indoor storage for huge numbers of helicopters. At its peak, Tustin housed over 100 helicopters.

Due to Tustin's proximity to Hollywood and the unique imagery of the blimp hangars, it has been used for location shooting for numerous movies and TV programs, including JAG, and The X-Files.

Following Tustin's closure by the Marine Corps in 1999, one of the blimp hangars has been designated a national historic landmark, and is to be preserved (the second one presumably will be torn down). Overall, plans were approved by the local government to reuse the property for a mixture of purposes, including parkland and commercial development.
1st Annual Professional Development Workshop
at Cal Poly Pomona
By: Andrea Gonzalez, E.I.T., A.M. ASCE

ASCE San Bernardino/Riverside Counties YMF (YMF) and the Cal Poly Pomona (CPP) ASCE student chapter hosted its first collaborative event at CPP on February 7, 2014. The event consisted of three professional development workshops: Resume Review, Mock Interviews, and a Mock Job Fair that ran simultaneously every hour from 2:00-5:00PM.

The event prepared Cal Poly students for their upcoming Civil Engineering Job Fair hosted by the Chi Epsilon student chapter, which is at the end of February.

YMF brought over 25 industry volunteers to help out with this event; volunteers were distributed amongst the three workshops and helped students greatly enhance their resumes, sharpen their interview skills and provided students with feedback on their elevator speeches.

The Resume Review Workshop consisted of a short presentation given by Mark Swanson, YMF President-Elect and Project Manager for CASC Engineering and Consulting who gave tips and advice for an effective resume. The “interactive” activity then followed after the presentation—this consisted of 8 industry volunteers reviewing students’ resumes and providing them with feedback. It was the students’ goals to have at least two industry volunteers review their resumes.

The Mock Interview Workshop consisted of a short presentation provided by Julianna Gonzalez, YMF Past President and Associate Engineer for Riverside County Flood Control and Water Conservation District who provided do’s and don’ts of interviewing. After the presentation, students rotated amongst the industry volunteers who served as the interviewers. The overall goal was to have one-on-one time so students would be exposed to different types of interviewers and to be provided constructive criticism on what they are doing well and where they can improve. Students were able to go through 3-4 rotations with different interviewers. Melissa Barbosa, YMF President and Associate Engineer for Azusa Light & Water was one of interviewers. A couple students were surprised when an interviewer provided them with technical questions and they learned that they need to be prepared for questions like this in the future.

...continued on page 7
Local Employment Opportunities

The Survey Division of the Riverside County Transportation Department is currently recruiting for the position of Engineering Technician I. This position will perform various land surveying functions, both in the field and in the office. The job description for the position is available at the Riverside County Human Resources Department website: www.rc-hr.com/Careers/JobDescriptions.aspx

TKE Engineering, Inc. is seeking a Civil Engineer to join our dynamic team of professionals. The ideal candidate will have 2+ years of experience and be ready to work in a fast paced, professional environment under the supervision of senior staff. For more information, or to apply, please visit: www.tkeengineering.com/employment-opportunities/c16fg
The Mock Job Fair Workshop consisted of four companies that were invited to participate in this joint event: Kiewit, U.S. Army Corps of Engineers, Albert A. WEBB & Associates, and Kimley-Horn Associates. Representatives from each of these companies setup tables in order to mimic a job fair that would allow students to enhance their elevator speeches when speaking to representatives. Company reps then provided students with feedback on where they can improve. Students enjoyed speaking to the representatives and they improved their skills for the actual job fair—some students may be seeing these company reps at the job fair this month!

Overall, this was a fun and successful event. YMF and CPP ASCE are looking forward in collaborating on another event next year. This event would not have been possible without the industry volunteers who took time out of their busy schedules to make this happen and the student volunteers who helped with set-up, clean-up, participating in this event and who were amazing co-hosts. Thank you once again to all volunteers, student and industry volunteers alike, for helping make this event a reality!
The New Wilshire Grand Center is a 1,100 ft (335 m) soaring skyscraper currently under construction in the Financial District of downtown Los Angeles. This ambitious structure will become the tallest high-rise building west of the Mississippi River. The developer, Korean Air, proposed the erection of this exciting venture which is scheduled for completion in 2017. An elite group of companies has joined together to successfully complete the building on time, safely, and within budget. This project is a Design Bid Build (DBB) project, with Brandow & Johnston Structural and Civil Engineering as the designer, Turner Construction as the builders, and AC Martin as the architectural firm.

The CBU ASCE Student Chapter had a unique opportunity to engage in a technical tour, ask questions, and learn more about the engineering behind this structure. On January 24, 2014 nineteen of the CBU Engineering students, along with the CBU ASCE faculty advisor Dr. Bai, made their way from Riverside to downtown Los Angeles. The students were welcomed in the Brandow & Johnston office by Gerard Nieblas, the CEO of the company. Nieblas graduated from the University of Berkeley with a M.S. in Structural Engineering and Structural Mechanics. Over the past 36 years, Nieblas has designed over 6 million square feet of space and is now in charge of the structural design of the 1 billion dollar Wilshire Grand Project. It was a privilege for the CBU students to have such an experienced engineer facilitate the tour, and provide technical information about the 73-floor super-structure.

The Tour began with an indoor presentation of the foundation design. The foundation contains more than 6.6 million pounds of rebar in the 18 feet thick footing under the footprint of the tower. It has 7 layers of #18 bars in the bottom of the mat, each weighing over 1,000 pounds. This mat will be the largest single concrete pour in the United States. In total, the Wilshire Grand team will pour 21,200 cubic yards of concrete, weighing more than 82 million pounds and will take 2,120 truckloads to complete the concrete pour. If you lined up all of the concrete trucks, it would take you from downtown Los Angeles to Santa Monica. The heat of hydration from the cement in the concrete is so great that 19 miles of chilled water will have to be running through cooling pipes in order to keep the concrete temperature below 160°F.
During the tour, Gerard Nieblas then proceeded to talk about the building. He mentioned that the building has a lateral system that is not currently allowed by the building code, so a peer review panel of professors from UC Berkeley is reviewing the design to advise the Los Angeles Building Department to get approval. This structure is designed with collapse prevention to withstand an extremely rare earthquake with a 2,475 year return period (2% probability in 50 years). For this level earthquake the structure can experience inelastic behavior. The building is also designed to have a sufficient ultimate strength for a 1,700 year wind event. When complete, it will have a 900 guest room luxury hotel in the upper floors and beneath there will be a 400,000 square feet office space and more than 45,000 square feet of retail. When the building settles, it will pull down the adjacent area and streets, much like the deformation of placing a bowling ball on a mattress.

The opportunity to tour the Wilshire Grand Center project was a thrilling and beneficial experience for the CBU ASCE Student Chapter. We want to give special thanks to Allen Chow, Sr. Construction Manager for Turner Construction, Marc Turcot, Superintendent for Tuner Construction, and Gerard Nieblas for making this possible. The vast amount of technical information and engagement with the staff was more than educational. This visit allowed us to have a better grasp between design and construction. We hope to visit the Wilshire Grand sight again to see the next phases of this immense enterprise.
The Los Angeles Younger Member Forum Presents its 15th annual

STUDENT NIGHT & JOB FAIR

Friday, March 7th, 2014

2:00 - 5:00pm  Job Fair
5:00 - 6:00pm  Break/ Networking
6:00 - 9:00pm  Dinner/Awards/ Scholarship presentation

Universities
CBU, CPP, CPSLO, CSULA, CSULB
CSUN, LMU, CSUF, UCI, UCLA, USC

Deadline for Registration:
Friday, Feb. 21st, 2014

Register at http://snjf.mlab-ymf.org

Location:
Double Tree by Hilton Hotel
120 South Los Angeles St.
Los Angeles, CA 90012

Company Registration:
Platinum sponsorship $1,250
Gold sponsorship $1,000
Silver sponsorship $750
Bronze sponsorship $500

Individual Registration:
Student member registration
By 2/14/13 $20
After 2/14/13 $25
ASCE member $55
Non-ASCE Member $75

For more information
Corporate Contact:
Nazanin Hajaty, A.M., ASCE
E-mail: nhajaty@gmail.com

University/ Student Outreach Contact:
Benjamin Baker, A.M., ASCE
E-mail: bbaker@kpff-la.com
YMF Bowling Event
By: Andrea Gonzalez, E.I.T., A.M. ASCE

Following the Professional Development Event at Cal Poly Pomona, YMF members and students got together to enjoy a game of bowling at Chaparral 300 in Chino Hills. Prior to bowling, everyone grabbed a bite to eat at The Habit, a delicious hamburger place that was conveniently located across the street from Chaparral 300. YMF members and friends had a great time unwinding and having lots of fun at this function!
"DESIGN ERROR MY FOOT... WE ALL CAN SEE YOU HAVE BEEN LEANING AGAINST IT!!!"
January Technical Tour
Inland Empire Transportation Management Center
By: Steven Ledbetter, ASCE SB/RIV Treasurer

The Inland Empire Transportation Management Center (IETMC) located in Fontana off the I-15, was completed in September 2011 at a cost of $50 million. The LEED certified facility provides interregional traffic management services around the clock. The IETMC is the largest Traffic Control facility in the State.

Unlike any of the other seven Transportation Management Center statewide, the main control room has both CalTrans and CHP personnel, working side by side. Calls are transferred between the two agencies based on the nature of the call (e.g. accident or debris in the roadway). Traffic information collected is posted to the State Clearinghouse website where it is downloaded and used to power various traffic information systems, such as Google Maps. Both agencies agree that close interaction and coordination have vastly improved the traffic management process. Approximately 65 dispatchers work year around, 14 at all times, handling 55,000 calls per month.

The facility itself runs on a closed air system with separate radio and computer server bank rooms, including both voice and data satellite systems. The facility and its inhabitants can operate for three days without outside help. The emergency management room is equipped with uninterruptible power supply and back up redundant systems throughout. To mitigate seismic hazards, the building is anchored to the ground by 31 base isolators that provide 26-inches of lateral movement and weigh 5,000 pounds each. Nothing is attached to the ground rigidly and the perimeter of the building is encompassed by a sand crush zone to provide room for lateral motion. Together these systems absorb 60% of ground energy. With various low impact development and clean energy design features included in the design, this is truly a state of the art facility that will provide services throughout the Inland Empire for years to come.
Wednesday March 19, 2014

Topic: One Water, One Watershed (SAWPA)

Synopsis:
The “One Water One Watershed” (OWOW) 2.0 Plan is the Santa Ana River Watershed’s integrated regional water management (IRWM) plan. This plan reflects a collaborative planning process that addresses all aspects of water resources in the watershed over a 20-year time horizon. OWOW 2.0 reflects a new suite of innovative approaches that lead with a water demand reduction strategy, instead of relying solely on continued imported water deliveries.

Mr. Mark Norton PE, LEED AP, Water Resources & Planning Manager at SAWPA.

Time:  
6:00 - 6:30 pm: Check-In/Networking  
6:30 - 7:00 pm: Dinner  
6:45 - 7:15 pm: Presentation  
7:15 - 7:25 pm: Q&A  
7:30 pm: Adjournment

Location:  
MEXICALI BAR & GRILL  
1690 Spruce St  
Riverside, CA 92507  
(951) 781-6682

Cost:  
Members $35 prepaid; $40 at the door (with reservations); Non-members and walk-ups $45.

Reservations: RSVP by March 17, 2014 at 12 noon to Cynthia.Gabaldon@cqrme.com.

No refunds after this date. Include the names of all persons attending with membership number (if applicable). Your advance reservations, made and honored, are essential to fulfilling our catering commitment. No shows will be billed. Seating is limited and payment at the door will be accepted based on availability. Reservation response is still necessary.

By mail, please make checks payable to “ASCE Stormwater Committee” and mail to:  
Bill Flores Jr.  
ASCE Stormwater Committee Chairman  
HDR Engineering, Inc.  
2280 Market St, Suite 100  
Riverside, CA 92501

Parking: Free parking is available.
SB/R YMF wishes you a Happy New Year! We are excited for Engineer’s Week (E Week) and all the events we have planned. Our board and volunteers have done an awesome job during the last quarter. Some key highlights from October include: Two Community Service events, Riverside Classic Bike Ride & “Make a Difference Day” in Jurupa Valley where volunteers donated their time to really help out the community; a Technical Presentation to our members at Riverside County Waste Management; the annual ASCE YMF Membership Booth at the Pomona Fairplex; and a social mixer “we survived the test” at Warehouse Pizza in La Verne after the PE Exam.

In November we had the Lamb Canyon Landfill Technical Tour and our Officer’s Retreat, camping in Malibu for the weekend, where we bonded over the fire, hiked and made gourmet meals. Next was the YMF Joint Camping Trip at Joshua Tree National Park for the weekend.

In December we had our Educational Outreach event at Tomas Rivera Middle School in Perris. In January we kicked off our annual Joint Mammoth Trip, with a new ASCE orange bandana to find each other on the slopes and stayed at 1849 Cabins near Canyon Lodge. We attended WRYMC in Phoenix Arizona for our annual leadership conference.

One of my favorite events so far was just this last week; we had over 25 professional volunteers from the industry in both the public and private sector at our 1st ever Professional Development Workshop with Cal Poly Pomona ASCE students. Thirty students in the civil engineering program at Cal Poly Pomona were able to meet one-on-one with professionals and receive pointers and tips for interviewing, resume, and how to approach booths at a job fair. The event was awesome – I heard positive feedback all day. To end the day we headed out for bowling in Chino Hills. It was great. I’d like to give a special thanks to Andrea Gonzalez, SB/R YMF Cal Poly Pomona Practitioner. Hats off to her on an outstanding job putting on the Professional Development Workshop at CPP. She lead with grace and her charming smile welcomed everyone!

We hope you have taken advantage of all our past quarter’s events. If not, it’s never too late! Join us for our future events:
A few upcoming events lined up include:

- Softball Tournament & BBQ with Cal Poly Pomona, Cal Baptist University and SB/R Branch on March 8, 2014
- YMF Joint Broomball Event on March 22, 2014 in Pasadena
- ASCE Membership Booth at Pomona Fairplex on April 11, 2014 ‘First 100 receive a FREE ASCE seat cushion to use in the exam’
- Social Mixer at Warehouse Pizza in La Verne after the PE Exam on April 11, 2014 – Free Food
- Technical Tour lined up in April 2014

I would like to personally thank all of you for your commitment to ASCE. Your membership plays a vital role in our association. ASCE provides awesome opportunities to connect with professionals, participate in community outreach events, and attend technical conferences.

I encourage you to join us at as many events as you can make. We have a lot of great ones lined up.

Melissa Barbosa, P.E.
President
2013-2014 ASCE SB/R YMF
mbarbosa@ci.azusa.ca.us
BROOMBALL

At the
Pasadena Ice Skating Center

300 E. Green Street, Pasadena

Sat March 22nd
10:30 PM-12:30 AM

Ever dream of forming the Flying V with Banks, Conway, and Goldberg only to have those dreams dashed because you can't ice skate? Well, get back to practicing your knuckle puck and triple deke because you're hitting the ice with us!

Broomball is a lot like hockey except you get to play in your sneakers and you don't have to be Canadian to enjoy it. All the gear will be included. You just have to dress warmly. So represent your YMF and bring along your bash brothers because you'll only win if you fly together!

Directions and Parking: www.skatepasadena.com/info/directions Refreshments will be provided.

Spaces are limited!

Sign-up and pay at www.mlab-ymf.org

For more information, contact emi.fuji@mwhglobal.com
Professional Directory

AECOM

Merrell Johnson

Available Space

Please see contact information below to have your company's business card displayed here.

If you'd like to have your business card or company information listed in the Professional Directory, please contact the Branch Treasurer, Steven Ledbetter, at (951) 680-0440 or sledbetter@tkeengineering.com
March 2014

March 7 LA YMF Student Night Job Fair
March 8 YMF and Students Softball Tournament and BBQ
March 14 Caltrans Southern Regional Laboratory Technical Tour
March 19 Storm Water Committee Meeting - "One Water One Watershed"
March 22 YMF Ice-travaganza - Broomball

Membership Information

Type of membership and Annual Dues (national)

Students: Free
Associate member: $50 per year of baccalaureate degree and first year after, then incremental increases to $205 over five years.
Member: $205
Affiliate: $205
Section (Branch) Dues: $45

National ASCE Student Membership is now FREE! Those who have chapters or clubs still must be a member of them before joining National. Log onto https://www.asce.org/online/, fill out the short application and instantly become a member of ASCE, or call 1-800-518-ASCE (2723)

Online Membership renewal available. Go to: https://www.asce.org/renewal/inforenewal.cfm. You need your membership number. All payments must be made with a major credit card. An e-receipt is transmitted to the member upon completion of the transaction.

NEWSLETTER INFORMATION

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