As I mentioned last month, February is the month for us engineers to celebrate our profession and give back to the community. One way of doing so is participating in the local high school presentations scheduled during E-Week (February 17th – 21st) throughout the inland area, including Rancho Cucamonga, Temecula, San Bernardino and Moreno Valley. The presentations normally consist of providing students a quick overview of civil engineering, the various disciplines, and answering any questions students may have regarding the profession. If you have not participated before, please make sure to join us! It is truly a rewarding experience. A couple hours of your time can make a huge difference by informing and inspiring young students about the opportunities that are available in our profession. To volunteer, please contact John Rogers (Branch Vice President) at JRogers@cleengineering.com, or just keep an eye for the event flyer.

Another great way to give back and share your experiences is participating in the upcoming workshop scheduled by the Younger Member Forum with Cal Poly Pomona. The workshop is geared towards helping students with their resumes, and providing some words of advice regarding the interview and job search process. The workshop is scheduled for Friday, February 7th from 2pm - 5pm and there is always a need for more volunteers. For more details, feel free to contact Andrea Gonzalez (YMF Cal Poly Pomona Liaison) at andie.leticia@gmail.com.
The Prado Dam was one of six dams built in Southern California during the Depression by the US Army Corps of Engineers. The Federal Government first allocated money for the Prado Dam in 1936, authorizing the Corps to plan and build the earthen dam to control the Santa Ana River winter and spring flooding. The Santa Ana's severe flood in the spring of 1938 (which killed at least 50 residents and many head of livestock) convinced local and Federal authorities of the importance of damming the river. A reservoir formed behind the dam in 1941 which also flooded the town of Prado (originally named "Rincon"), once a small farming community.

Prado Dam is an earth-fill flood control dam that was built in 1941 by the US Army Corps of Engineers (USACE) across the Santa Ana River near the City of Corona to provide flood protection to the communities in Orange County. The 25,800 acre-feet dam is also operated to provide water conservation by storing water for groundwater recharge operations.

New developments are currently underway that will greatly improve the holding and discharge capacity of the dam.

...continued on page 4
Save the Date!
ASCE SB/R YMF will be partnering with the Cal Poly Pomona ASCE student chapter for our

FIRST ANNUAL PROFESSIONAL DEVELOPMENT WORKSHOP

The Professional Development Workshop will encompass the following:
Resume Presentation & Interactive Activity
Mock Interview Presentation & Interactive Activity
Preparation for Job Fair Presentation & Interactive Activity

When: FRI, FEB 7, 2014
Time: 2:00-5:00PM
Where: CAL POLY POMONA

The STUDENTS need YOU! YOU would provide students with feedback on how to enhance their resumes, their interviewing and to be better prepared for their upcoming job fair and for the real world! Remember what it was like to be a student this is a great opportunity for YOU to give back and share YOUR experiences with them!

*ASCE SB/R YMF is in need of volunteers for the above workshops and to review resumes prior to the event.

A bowling social mixer is scheduled from 6:00-8:00PM following the Professional Development Workshop.

If you are interested in volunteering or have any questions regarding the event, please email Andrea Gonzalez at andie.leticia@gmail.com by Friday, January 3, 2014.
President’s Message

...continued from page 1

This month’s meeting is scheduled for Wednesday, February 19th at the University of Redlands Casa Loma Room. The meeting is the annual joint meeting with the Inland Empire Council of Engineers and Scientists (IECES). The guest speaker will be Mr. Howard Lum, P.E., S.E. with the Metropolitan Water District. Mr. Lum was one of the panel experts for the National Geographic documentary called “Manmade: Hoover Dam Reinvented,” which challenged a team of engineers on how they would rebuild Hoover Dam from scratch today. It is a very interesting topic and I hope to see many of you there.

Sincerely,
Edwin Quinonez, P.E.
San Bernardino and Riverside Counties Branch President

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Prado Dam

...continued from page 2

The estimated $740 million improvement cost includes previously completed tasks such as raising the existing embankment 28.4 feet to an elevation of 594.4 feet and constructing a new outlet works that increases the maximum discharge capacity from 9,000cfs to 30,000cfs. The improvements for Prado Dam also include raising the spillway crest from an elevation of 543 ft. to 563 ft., constructing new levees and dikes, acquiring over 2,300 acres of property rights for reservoir expansion, relocating and protecting 30 utility lines, increasing reservoir area from 6,695 acres to 10,256 acres, and increasing-impoundment from 217,000 acre-feet to 362,000 acre-feet.
Cal Poly Pomona Thanks You!

As a member of the San Bernardino - Riverside Branch of ASCE, your contributions help fund student programs and scholarships at Cal Poly Pomona and California Baptist University. In appreciation for your contributions, Cal Poly Pomona sent you this delightful card. Thanks for all you do!

ASCE (CPP) Student Chapter
Thanks You!

Thank you San Bernardino and Riverside Counties branch for supporting our student chapter!
From all of us,

--Dominic Stone
--Eric Aubry
--Kyle Buffa
--Jenna Dwyer
--Adrian Rodriguez
--Steven Taylor
--Chandni Patel
--Erik Westjute
--Jomet Bautista
--Kalvin Lam
--Christina Fisher
--Natalu Ernst

--Michael Phillips
--Christine Zheng
Local Employment Opportunities

Hal Hays Construction, Inc. invites you to join our talented and award-winning team as we grow our company to the next level. We are looking for a Senior Civil Estimator. For more information, or to apply, please visit: http://careers.asce.org/jobs/5560669/senior-civil-estimator

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: http://www.rc-hr.com/Careers/JobDescriptions.aspx
Common practice for the protection of people and structures from debris flow is the construction of catchment basins and rigid structures. After a wildfire, temporary debris flow measures are needed. Catchment basins usually require a large footprint and significant environmental degradation in their construction. Rigid structures are permanent and costly to construct.

The large-scale use of flexible rockfall barriers during the 1990's has led to the development of flexible debris flow barriers. Although similar in appearance to rockfall barriers, debris flow barriers must be designed to criteria that is singular to debris flows and should not be confused with rockfall barriers. Like rockfall barriers debris flow barriers must withstand a dynamic impact. However, the time of impact is significantly longer and requires the use of more robust braking elements, anchors, and support ropes. Because debris remains in the net once it drains, the additional static loading must be accounted for as well.

Geobrugg AG of Romanshorn, Switzerland has done extensive research on the design and specification of debris flow barriers. This has included numerical modeling and full-scale testing in actual debris flow situations. As a result, Geobrugg has developed a design methodology for a range of standard debris flow barriers. This methodology has been incorporated into a design software program, DEBFLOW, which is used to select the appropriate debris flow barrier for a particular situation.

The design procedure includes the collection of data, input and analysis using DEBFLOW, barrier specification and construction. Two case studies, one in the San Bernardino Mountains and the other in Colorado Springs, Colorado illustrate both the evolution of barrier design as well as construction and performance.

Dr. William F. Kane received his B.A. in geology from James Madison University, and his M.S. and Ph.D. degrees in Civil Engineering from Virginia Tech. He is President of KANE GeoTech, Inc.,
Stockton, California, which he founded in 1997. KANE GeoTech consults on a variety of geotechnical problems for public agencies and private industry, especially in the areas of rock and soil mechanics, ground subsidence, slope stability, geotechnical instrumentation, and natural hazard mitigation. An award winning professor, Dr. Kane taught civil engineering and engineering geology at the universities of Tennessee, Pacific, and Alabama-Huntsville. He has authored or co-authored dozens of technical papers and reports. Professionally, Dr. Kane is a registered professional engineer in 20 states and a registered professional geologist in Tennessee. He also conducts geotechnical engineering workshops in the U.S. and internationally, and has appeared as a geotechnical expert both in litigation and on national media outlets including CNBC and CBS radio and television.

Simon Boone received has B.S. degree in Geology from James Madison University and is employed by KANE GeoTech, Inc. as a Geologist in Training (GIT). He has worked on a number of projects associated with rockfall and debris flow and slope stability across the western United States and Hawaii.

Sponsor: This presentation is sponsored by GeoBrugg.

Technical Presentation:

Date: February 5, 2014
Time: 6:00 - 6:45 PM Registration and socializing
6:45 - 7:15 PM Dinner
7:15 – 7:30 PM Sponsor Presentation – GeoBrugg, Inc.
7:30 – 8:30 PM Technical presentation – Bill Kane

Location: Zendelas Mexican Grill, 8106 Milliken Avenue, Rancho Cucamonga
Cost: $30 members w/ RSVP, $35 non-members or no RSVP, $10 students

Registration and Additional Info: RSVP by February 3, 2014 to Jeff Waller at: jwaller@kleinfelder.com

Upcoming Events:

2014 ASCE GeoGongress, February 23-26, 2014, Atlanta, Georgia
2014 CalGeo Annual Conference, May 1-3, 2014, Newport Beach, California
ASCE Inland Empire Geo-Institute Short Course, Mid-June 2014 (tentative), to be held at Cal Poly Pomona

Future Meeting Dates:

We have scheduled our next meeting for May 14 so please mark your calendars. May 14 meeting technical presentation will be on the Soledad Landslide, presented by Mike Miller.
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

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
Science Fun Fact

How did the dinosaurs die?

After Dinosaurs ate everything on Earth, they dug deep into the ground to search for food.

Sadly, they became trapped in the holes, which is why their skeletons are found underground today.
AMERICAN SOCIETY OF CIVIL ENGINEERS
LOS ANGELES, ORANGE COUNTY, AND SAN BERNARDINO/RIVERSIDE
YOUNGER MEMBER FORUM

VOLUNTEERS NEEDED!

What: ASCE YMF 20th Annual Popsicle Stick Bridge Competition

Where: California State University, Northridge (CSUN)
18111 Northhoff Street
Northridge, CA 91330

When: Saturday, February 15th, 2014
8:00 AM to 5:30 PM

Questions: Tina Tran, Volunteer Coordinator
LA YMF
tina.tran@parsons.com

Website: http://bridge.mlab-ymf.org

Event Description:

Popsicle Stick Bridge Competition (PSBC) is a FREE event that brings together hundreds of local high school students to participate in a full-day celebration of math, science and engineering. Sponsored by the American Society of Civil Engineers’ Younger Member Forums, student groups are challenged to design and build a popsicle stick bridge based upon provided rules. At the competition, students submit a technical design report, present their bridge to their peers and local engineering professionals, and then test the strength of their bridge on a loading machine.

With one of the biggest turnouts in PSBC history, we need many volunteers to help facilitate the event so that we can ensure a great day for all participants. Volunteers will assist with registration; bridge testing; judging bridges, presentation, and posters; scoring; facilitating various portions of the day; and much more. Every year students, teachers, and volunteers alike enjoy all the day has to offer. Come join in the fun!
fun•food•networking

bragging rights!

ASCE San Bernardino/Riverside Branch, YMF & Students Softball Tournament and BBQ

Sat. - MARCH 8TH

8:30 AM at Ellena Park
7139 Kenyon Way Rancho Cucamonga, CA 91701

Interested in Playing? Cheering? Contact your YMF Advisor
CBU Advisor Dillon Strand at dillon.strand@gmail.com
CPP Advisor Andrew Gonzalez at andie.leticia@gmail.com
YMF Team David Cortese at djcortese@rcflood.org
BROOMBALL AT THE PASADENA ICE SKATING CENTER
300 E. GREEN STREET, PASADENA
SAT MARCH 22ND
10:30PM-12:30AM

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.FUJII@MWHGLOBAL.COM
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 sledger@tkeengineering.com
February 2014

February 7 CPP Professional Development Workshop
February 15 High School Popsicle Stick Bridge Contest
February 16-22 E-Week – High School Presentations
February 19 IECES Joint Meeting – Hoover Dam Construction
February 20 Joint Happy Hour w/YMF – Mission Inn, Riverside
February 28 CBU Professional Development Workshop
February 28 YMF "Finance for Young Engineers"

Membership Information

Type of membership and Annual Dues (national)

<table>
<thead>
<tr>
<th>Type</th>
<th>Dues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students:</td>
<td>Free</td>
</tr>
<tr>
<td>Associate member:</td>
<td>$50 per year of baccalaureate degree and first year after, then incremental increases to $205 over five years.</td>
</tr>
<tr>
<td>Member:</td>
<td>$205</td>
</tr>
<tr>
<td>Affiliate:</td>
<td>$205</td>
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<tr>
<td>Section (Branch) Dues:</td>
<td>$45</td>
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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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