

**PRESIDENT'S
MESSAGE**

Kenneth E. Cox, P.E., G.E.



Hello Members,

Welcome to another year of engineering! My name is Kenneth Cox and I will serve as our Branch President for the 2016-2017 year starting this month. I graduated in 1998 from Brigham Young University and completed my Master's degree in 2001 with the University of California, San Diego. My career began with Geocon Inc. in San Diego. New opportunities with Geocon took me to Murrieta in 2005, and I am now with Leighton. My service with the ASCE San



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Bernardino and Riverside Counties Branch Board began in 2011. It has been a great journey and I look forward to great year!

Along with the change in seasons, come changes to our branch board. I am pleased to introduce two new members to our board this year: Sarah Lunetta and Chet Robinson. Chet is a geotechnical engineer working for Geocon Inc. and will serve as our Newsletter Editor this year. Sarah brings her experience from the Riverside County Department of Waste Resources to serve as our Board Secretary. As unpaid servants to the engineering community, they can certainly use all of our encouragement and support. Please greet them and introduce yourself at our next branch meeting, October 19th.

October 19th will also be a great time to greet our continuing board members. Please join us at the Riverside Convention Center at 11:30 am to connect and learn about The Importance of Surveying. In our modern era of engineering specialization, few engineers have experience in land surveying. Have we lost beneficial knowledge and skills? Come and learn from Bill Hofferber and John Rogers. They'll teach you everything you

...CONTINUED ON PAGE 4



Los Angeles Metro Rail - Part I

One of the very first and most recommended things to experience when visiting New York City or San Francisco, are their world famous subway and light rail systems. Thanks to movies like *The Warriors*, TV shows like *Seinfeld*, and dozens of songs; the New York City Subway and San Francisco Bay Area Rapid Transit (BART) are well known in modern popular culture. Almost every tourist should make or does make an effort to take a ride and enjoy the views. Growing up in Los Angeles, one may have wondered why world famous downtown LA didn't have such system. As a kid in 1990s LA, it seemed that cars and buses were the defining modes of transportation. Why did LA not have a subway system that people filmed movies and wrote songs about? Little did we know, Los Angeles really does have its own albeit much less famous, but just as convenient, metro rail.

Los Angeles' light rail system has quite a complex history that dates back to 1874 with more than a dozen different privately owned railways systems established until the late 1890s. The very beginning of public transit in Los Angeles can be traced back to the Spring and West 6th Street Railroad company owned by Judge Robert M. Widney. The first Los Angeles metro rail consisted of a single track with a horse drawn car.

After a series of mergers, by the late 1890s there were two major competing public transit railway companies in Los Angeles, the Los Angeles Railway and the Pacific Electric Railway Company. The LA Railway, also known as the Yellow Cars of Los Angeles, was the local streetcar transit system that connected the city center to nearby neighborhoods and comprised 642 miles of track at its peak. As the rail system grew less profitable, the system slowly transitioned into a bus system and the last streetcar went out of service in 1963. On August 24, 1911, the "Great Merger" took place and eight separate companies were merged into the Pacific Electric Railway Company identified with Red Cars. After World War 2, rail service was crippled by the rise of the automobile and rail ridership declined significantly. The last line using the subway system was converted to buses in 1955.



Los Angeles Railway—Yellow Cars (1895-1945)

However, beginning in the 1970s the citizens of Los Angeles began requesting a method of mass transit other than buses; citing environmental concerns like air quality, rapidly increasing population, and steadily rising gasoline prices.

On August 22, 1964 the Southern California Rapid Transit District (SCRTD) was formed and mandated to improve bus systems and build a transit system for Los Angeles. In 1976, the Los Angeles County Transportation Commission (LACTC) was created to oversee all public transit in the county. The SCRTD continued planning of the Metrorail Subway (the Red Line), while the LACTC developed plans for the light rail system. Construction of the LA County Metro Rail system began in 1985 and by 1993, the SCRTD and the LACTC were merged into the Los Angeles County Metropolitan Transportation Authority (LACMTA) which we know today as the LA Metro.

Source:

<https://www.metro.net/about/library/about/home/los-angeles-transit-history/>



Pacific Electric Railway Company—Red Cars (1911-1955)

Interested in writing articles
For the Engineers Column?

Contact the Newsletter Editor
Chet Robinson, GE
at robinson@geoconinc.com

President's Message

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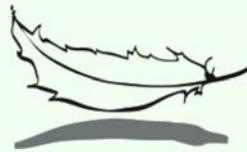
didn't know you wanted to know about surveying. See the flyer on page 6 for additional information.

We have a great year ahead of us! In August the Board of Directors met to brainstorm for the upcoming year. We reviewed the successes and growth over the past year and planned events and activities to keep the momentum. Keep your eyes on Chet's newsletter for updates on the branch activities as the year progresses.

Sincerely,

Kennet E. Cox, P.E., G.E.
San Bernardino and Riverside Counties Branch President

Lighter Side



JUST FOR FUN

How could you measure exactly 6 liters of water using only two containers that hold 4 liters of water, and 7 liters of water each?

Of course - the containers are not graduated.

Feel free to discuss with your co workers.

If you think you know the answer, email it to the newsletter editor. We will print the first correct answer in the next edition.

robinson@geoconinc.com



The Los Angeles Section

Cordially Invites You to

The Queen Mary

1126 Queens Highway, Long Beach, CA 90802 (Windsor Salon)

Annual Meeting, Installation of Officers & Awards Luncheon

Saturday, October 8, 2016 at 11:00 am

Registration & Reception—11:00 am | Lunch & Program—11:30 am

Member & Guest—\$70 per person | Student—\$25

(After Sept. 30th, Member & Guest—\$85 per person | Students—\$35)

Menu Selection

Grilled Tuscan Style Chicken or Roasted Vegetable Wellington (Vegetarian)

For reservations by check, mail to:

ASCE LA Section, 1405 Warner Ave., Ste. B, Tustin, CA 92780

Register online at www.ascelasection.org.

Questions can be directed to the ASCE Office at 714-258-8306.

Please Print & Return Coupon with Payment

Registration Deadline is Friday, September 30, 2016

Name (for name tag): _____ Phone: _____

Company: _____ Fax: _____

Address: _____

City: _____ State: _____ Zip: _____

Email (Reservation Confirmation): _____

Spouse/Guest Name(s): _____

Check for \$ _____ enclosed for # _____ Chicken # _____ Vegetarian



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If you are interested in serving your
engineering community, please
contact a member of the board.

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Past President

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sledbetter@tkeengineering.com

October Lunch Meeting

My Building is where?! The Importance of Surveying

Bill Hofferber, L.S.

and

John Rogers, P.E., CLE Engineering

Surveying is a crucial step taking your project from plans to reality. John Rogers and Bill Hofferber will explain the secret surveying life of successful civil engineers. Join us for lunch and learn everything you didn't know you wanted to know about surveying.

Topics include: Construction staking: what can go wrong and how to avoid it? How engineers can avoid common surveying pitfalls. Project benefits of improved engineer/surveyor coordination and communication.

Date: Wednesday, October 19, 2016

Time: 11:30 am to 1:00 pm

Location: Riverside Convention Center
3637 Fifth Street, Riverside CA

Cost: \$35 ASCE Members w/ RSVP
\$20 Government Employees w/ RSVP
\$20 ASCE Life Members & Students w/ RSVP
\$40 Non-Members / Walk-Ins / No RSVP

Deadline: Please reserve by October 10, 2016

Additional Info: Kenneth Cox, G.E.
(951) 500-3500
kcox@leightongroup.com

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OVER, IT'S
OVER!
DON'T
WORRY.
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YOU.**



PE BOOTH, HAPPY HOUR & SOCIAL EVENT

FOR MORE INFO ON HOW TO BECOME AN ASCE MEMBER & TO LEARN MORE ABOUT WHAT YOUNGER MEMBERS (YMF) HAS TO OFFER IN YOUR LOCAL AREA CONTACT:

REMI CANDAELE, PE
LA SECTION YMF CHAIR
RCANDAELE@HUITT-ZOLLARS.COM
949.988.5815, EXT. 11193

LOS ANGELES YMF
ORANGE COUNTY YMF
SAN BERNARDINO-RIVERSIDE YMF
SANTA BARBARA/VENTURA YMF
SOUTHERN SAN JOAQUIN YMF
SAN LUIS OBISPO YMF

VISIT WWW.ASCELASECTION.ORG TO
CONNECT TO ALL OF THE YMF'S

WHEN: FRIDAY, OCTOBER 28, 2016
MEMBERSHIP BOOTH (PICK UP YOUR FREE ASCE GIFT)

WHERE: POMONA FAIRPLEX

TIME: 6AM TILL EXAM & LUNCH 12-1PM

POST PE EXAM SOCIAL EVENT

WHERE: INNOVATION BREW WORKS
3650 W. TEMPLE AVE
POMONA, CA 91768

TIME: AFTER THE PE EXAM (5-8PM)

COST: FREE

**WHO: EVERYONE IS INVITED... ESPECIALLY
TEST TAKERS**

FOR MORE INFO, CONTACT IBRAHIM IBRAHIM, SB/R YMF PRESIDENT
AT IBRA0717@HOTMAIL.COM OR (208) 596-5166

4th ANNUAL ASCE SAN BERNARDINO/RIVERSIDE BRANCH & YOUNGER MEMBER FORUM SCHOLARSHIP GOLF TOURNAMENT

By: Steven W. Ledbetter, P.E.

ASCE San Bernardino/Riverside Branch & YMF hosted their 4th annual scholarship golf tournament this past September 23rd at the Morongo Golf Club at Tukwet Canyon in Beaumont, CA. The golf tournament aims to raise money to provide scholarships to exemplary civil engineering students at Cal Poly Pomona and Cal Baptist Universities, as well as promote events to the ASCE Student Chapters to help develop and enrich their civil engineering careers.



Jeff Meiter, our Branch Treasurer, along with several volunteers from ASCE SB/RIV Branch, ASCE AB/RIV YMF, and Cal Baptist ASCE student chapter welcomed the players representing various engineering firms and public agencies. This year, the weather couldn't have been better at a sunny and cool 78°. Golfers were delighted at the pristine conditions and beautiful setting at Morongo Golf Club. Eager golfers arrived early in order to warm up at the range and enjoy breakfast before the tournament teed off. We continued our newest tradition of setting up a station at the turn where we handed out waters, took group photos, and invited attendees to participate in marshmallow golf for a chance at additional raffle tickets! The intriguing game was a hit, offering comic relief and friendly competition between teams during the stop. Photos of all the teams and the raffle prize winners can be found on the ASCE SB/RIV Facebook page by clicking www.facebook.com/ascesbriv. Be sure to give us a  while you're there.

As players completed their round of golf they began filling up the clubhouse, where they settled in for a banquet lunch that featured fresh made tacos and a Mexican buffet. At the banquet lunch, we recognized all the tournament sponsors, winning teams and players, and ran the highly anticipated raffle with over \$1,000 in prizes.



YOUNGER MEMBER FORUM

SCHOLARSHIP GOLF TOURNAMENT (CONTINUED)

We crowned a new winning team this year to take home the ASCE Cup! The last three tournaments, a team from CLE Engineering has taken home the ASCE Cup, but this year a team from TKE Engineering was able to put in the best score! They will get their names added to the cup and get to hold onto the trophy for bragging rights for the next year!

ASCE SB/RIV Branch & YMF would like to thank all the golf tournament sponsors: A&I Reprographics, CASC Engineering and Consulting, Leighton Group, TKE Engineering, and Valued Engineering! Also, many thanks to Mission Springs Water District for donating water bottles to keep everyone hydrated for throughout the event. Last but not least, I would like to extend a very special thank you to all the hard working individuals that volunteered their time to ensure this was a successful event!



We look forward to seeing everyone again at next year's golf tournament for some more fun!

Employment Opportunity

*SALEM Engineering Group, an Engineering Consulting Firm, is looking for an experienced candidate to serve as a **Civil Project Engineer** in our Rancho Cucamonga, California office.*

This position would act as the lead project engineer for development projects working directly with other project engineers and under the direction of the Civil Department Manager. Bachelor of Science degree from an accredited four-year university with at least eight to ten years of experience in related design work. A professional engineering license in civil engineering from the State of California is required.

Link to full job description: <http://www.engineering.com/jobs/my-job-details/14176/>

Interested candidates may send their resume to hr@salem.net.

ASCE San Bernardino Riverside Board of Directors

2015-2016 BOARD OF DIRECTORS



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Calendar of Upcoming ASCE Events

October 8, 2016 – ASCE LA Section Annual Meeting and Installation of Officers at Queen Mary in Long Beach

October 14, 2016 – ASCE Branch Board Meeting at TKE

October 19, 2016 – ASCE Branch October Lunch Meeting “My Building is where?!” at Riverside Convention Center

October 28, 2016 – Professional Engineering Exam at Pomona Fairplex

November 2, 2016 – ASCE Branch Board Meeting at TKE

November 12, 2016 – YMF Broomball

Membership Information

Types of Membership and Annual Dues (National)

Students:	FREE
Associate Member:	\$50 per year of Baccalaureate degree and first year after, then incremental increases to \$225 over five years.
Member:	\$225
Affiliate:	\$225
Section (Branch) Dues:	\$55

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 <http://www.asce.org/join/> fill out the short application or call 1-800-548-ASCE (2723) and instantly become a member of ASCE.

Online membership renewal is available! Go to <http://www.asce.org/membership-communities/> You will 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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Professional Directory: \$250 per business card (10 issues)
Full page ad: \$235 per issue
1/2 page ad: \$125 per issue
1/4 page ad: \$75 per issue

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