President’s Message

If you haven’t done so already, take some time to explore the new ASCE website, www.asce.org. The first thing you will probably notice is that it has the new “look” and format that we’ve all been seeing in ASCE News. This includes setting four main headings named for each of the cornerstones of ASCE’s corporate identity: Knowledge & Learning, Leadership & Management, Issues & Advocacy, and Membership & Community. I was pleased to see this organization and found it much easier to navigate than the previous long list of menu items and corresponding submenus.

I was also impressed with the visual and organizational changes while searching through Regions, Sections, and Branches. Choosing region 9 (California) shows the geographic locations of Sections, which in turn the Los Angeles Section lists all of its’ Branches.

Earlier this year I finally answered several invitations to join Facebook and use it regularly (please don’t hold that against me). Facebook is one of three social media links that can be found on ASCE’s new website, the others being Twitter and LinkedIn.

The few new features that I’ve mentioned here will give ASCE members added value to their membership by attracting potential new members, and by simplifying access to information as well as to other members.

Brian D. Wolfe, PE ASCE
President, San Bernardino/Riverside Counties Branch of the LA Section of ASCE
Located at the northern tip of Michigan where Lake Superior, Lake Michigan, and Lake Huron join together, the Sault Ste. Marie Hydroelectric Power Complex was built to harness the hydroelectric potential of the 20-foot falls at the headwaters of the St. Marys (sic) River, the sole outlet of Lake Superior. A century after its construction, the plant remains the largest low-head hydroelectric facility in the United States. Today, the Sault Ste. Marie plant supplies electricity to area residents, especially those in the Upper Peninsula of Michigan.

In order to secure customers in a relatively remote region, the plant's developers signed long-term contracts to sell power at a low cost, thus requiring the construction of a large-scale plant. The need to create maximum output within economic and geographic constraints presented a multitude of practical problems, which were solved by an extensive staff of civil engineers, several of whom went on to celebrated careers in the profession.

Facts
- The plant's primary customer at the time of its construction was Union Carbide, a then-fledgling business that required a large amount of electric power to produce calcium carbide, an essential ingredient in making acetylene. Union Carbide eventually purchased the plant to supply its own industrial power.
- Half of the power plant's large feeder canal was dug through rock, but the other half passed through a mixture of sand and clay unable to withstand the force of the canal's water flow. Installing a timber lining – completely submerged to help preserve it -- solved this problem. The timber lining remains intact today.
- The headhouse of the Sault Ste. Marie plant is more than a quarter-mile long and contains 80 turbine chambers, only 40 of which were used when the plant was opened. The 40 horizontal turbine mechanisms manufactured and installed in 1902 remain in place at the facility and in operation.
- The facility's power canal can feed water at 30,000 cubic feet per second -- a volume greater than most rivers -- qualifying it as the largest in the world.
- More than a dozen leading engineers served their apprenticeships on the Sault Ste. Marie hydropower project. Among them were Ralph Modjeski, designer of the Oakland Bay Bridge, and seven future officers of the American Society of Civil Engineers, including Alfred Noble, who served as president of ASCE in 1903, Clements Herschel, who served as president in 1916, and James W. Rickey, honored with the Society's Rickey medal.
- The Sault Ste. Marie plant was bought by the Edison Sault Electric Company in 1963 and shifted to the production of electricity for use in homes and offices.

Resources
L.A. officials debate $10B interstate-connector tunnel
Los Angeles County transportation officials are looking at a tunnel that would connect a gap in the region's freeway network. The tunnel would connect state Route 710 and I-210 beneath South Pasadena. "It's construction on a massive scale, bigger than the Big Dig, and will cost upward of $10 billion," said Ara Najarian, president of the Los Angeles County Metropolitan Transportation Authority board. San Jose Mercury News (Calif.)/The Associated Press (4/21)

Long Beach OKs $1 billion shoreline development
The City Council of Long Beach, Calif., has given the green light to a $1 billion project called the Golden Shore Master Plan. Although the project still requires approval by the California Coastal Commission, the council has approved zoning that would permit construction of up to 1,370 residential condominiums, along with office and retail space and a hotel, among other facilities. Press-Telegram (Long Beach, Calif.) (4/21)
April Luncheon Meeting Recap

On Wednesday April 20, 2010, the ASCE San Bernardino & Riverside Counties Branch had their annual joint meeting with the Cal Poly Pomona University Student Chapter at the Old Spaghetti Factory in Rancho Cucamonga. The students presented a summary of their participation in the 2010 ASCE Pacific Southwest Regional Conference that took place at the University of Nevada, Las Vegas. Over 800 students from 17 universities attended, and participated in 15 events including Concrete Canoe, Steel Bridge, and Tug of War. Also presented were the student chapter goals for the year 2011 that included the following:

1. Increase student involvement within the civil engineering department. Not just the number of members but the number of active members. A freshman outreach program has been set into action to increase younger member interaction.

2. Implement a community service program that will help the nearby area by diverse activities such as K-12 outreach, charitable contributions and volunteer programs for those less fortunate. New cabinet positions have been created to aid in the success of this goal.

3. Our last goal and most important is to create a foundation this year for the 2012 conference which will be hosted by Cal Poly Pomona. New cabinet positions and an additional faculty advisor have been added to aid in the success of this program.

Cal Poly Pomona Students have worked hard and improved over the years to place 3rd in Concrete Canoe and Geo-challenge, while placing 4th overall in conference points behind Cal-Poly SLO, UCLA and UCI. The students were also 1st in Volleyball and Basketball. Cal Baptist University students also attended the joint meeting, which was a great way to begin interacting with the Branch and Cal Poly Pomona as they establish their own student chapter. Before the meeting ended members of the Younger Member Forum raffled an ASCE briefcase bag between students. The lucky winner was Andrew Purvis from Cal Poly Pomona.

Congratulations to all participants for their hard work and dedication, and our sincere thanks to all attendees for their support.

Cal Poly Pomona Officers: Andrew Reed, Diana Valdovinos, Rory Harnish, Autumn Ashurst, Steven Ledbetter, Jeanette Pedraza, Kaley Oldani, Jeff Osborn, Steven Taing, Nadine Saikali, Lena Shammas, Xiaoyu Zhang, Lana Almoussa, Dr. Hany Farran
Topic: Executive Director of SanBAG, Norm King will be speaking about future Transportation Projects in San Bernardino County.

All are welcome to play a round of golf after the meeting. Each player will be responsible for their own green fees.

Date: Friday, May 21, 2010
Time: 11:30 am to 1 pm
Location: Indain Hills Country Club
5700 Club House Dr
Riverside, CA 92509
View Map

Cost: Members w/ RSVP $20
Deadline: 5/18/2010
Additional Info: Bertha Padilla
(951) 788-4688
Bertha.Padilla@tylin.com
White Water Rafting Trip

Where: Upper Kern River
11300 Kernville Road
Kernville, CA 93238

More Information & Directions: www.sierrasouth.com

Date: Sunday, June 27th, 2010
Time: 8:30 am
Who: ASCE LA YMF Groups
What: Half Day Rafting Level III-IV

Cost: $150.00 per person (Includes all equipment, camping, parking and all meals and drinks)

Deadline to sign-up June 18, 2010
Make Check payable to: OC-YMF
Rocio Duran
P.O. Box 341236
Anieta, CA 91334-1236

Camping (Optional)

Where: Frandy Camp Site
11252 Kernville Rd
Kernville, CA 93238

Date: Friday & Saturday, June 25-27th, 2010
Time: Anytime after 2pm Check-in
Food & Drinks included
Cost: Included with price

For More Information:
http://www.frandy.net/

Must bring with you

Driver’s License
Clothes that can get wet
- Shorts or Bathing Suits
- Dry clothes to change
Tennis Shoes or River Sandals
Sleeping Bag (if Camping)
Tent (if Camping)
Sunscreen
Hats & Visors
Sunglasses

For questions, contact:
Rocio Duran at 714-614-0727 (rduran129@hotmail.com)
Wednesday, May 12, 2010

Topic: Low Impact Development Design and Regional Requirements

Synopsis: The recently revised MS4 Permits include mandatory Low Impact Design criteria, which will initiate a change in overall site design layout. A generalized Low Impact Design approach, specific to the Permits will be presented, as well as typical designs and examples from projects in California. LID references and guidelines will also be summarized. Ms. Cynthia Gabaldon, P.E., CPSWQ, CPESC from URS Corporation will be presenting.

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: COCOS RESTAURANT  
4360 Mills Circle  
Ontario, California 91764  
(909) 957-3032

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

Send your request for a vegetarian meal to ascesbr.sc@gmail.com

Reservations: RSVP by May 11, 2010 at 12 noon to http://www.projectpartners.com/os/ps_show_events.asp?id=19. 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: Parking is free.  
To reduce your carbon footprint, carpooling is encouraged.
LETTERS TO THE EDITOR

Any thoughts or comments about the newsletter?
Please email, phone to:
Francis Gbondo, P.E., LEED AP, Newsletter Editor,
ASCE San Bernardino / Riverside Counties Branch
fgbondo@yahoo.com 951.790.9548

SmartQuote

“I’m a great believer in luck, and I find the harder I work the more I have of it.”

--Thomas Jefferson, third U.S. president, born on this day in 1743
San Gabriel Valley Water Company

**Senior Engineer**  **Location:** Fontana, California  **Salary:** DOQ

**JOB SUMMARY** Under the direction of the Chief Engineer, has responsibility for the design and construction of a variety of water production, treatment, and distribution facilities and structures, and the installation of related equipment. **JOB DUTIES AND ESSENTIAL FUNCTIONS** Responsible for a variety of tasks and duties, which may include, but would not be limited to, the following:  • Prepare designs in accordance with applicable codes and standards.  • Assist in the preparation of annual capital budgets.  • Prepare plans, calculations, specifications, bid requests, and cost estimates of materials and labor for various plans including, but not limited to: site, grading, sewer and storm drain, street improvement, reservoir, booster stations and retaining walls.  • Design and evaluate water distribution systems, and perform hydraulic modeling and analyses.  • Prepare technical reports and analyses.  • Develop and/or recommend revisions of company standard drawings and specifications.  • Identify and recommend corrective action for design discrepancies.  • Develop timelines and follow-up to assure on-time completion of projects.  • Visit construction sites to review construction progress and prepare construction progress reports.  • Provide construction management and administration support.  • Attend construction site meetings and provide a wide range of technical field support.  • Coordinate and communicate with a variety of contractors and public agency representatives.  • Represent the company at meetings with public agencies, contractors, and developers.  • Prepare permit application packages and secure construction permits.  • Prepare reports, exhibits and testimony for filing with and presentations to the California Public Utilities Commission (“CPUC”).  • Review drafts of exhibits and check cost estimates for use in Division of Rate Payer Advocates data request responses and conduct the preparation and filing of General Rate Cases with the “CPUC”.  • Respond to “CPUC” data requests and prepare reports required by “CPUC”.  • Conduct economic cost-benefit analyses, feasibility and cost of service studies for company projects.  • Prepare justifications for capital improvement projects.  • Other tasks and duties as directed.

**SKILLS, KNOWLEDGE AND PHYSICAL REQUIREMENT** Skills, knowledge and physical requirements include, but would not be limited to:  • Thorough knowledge of civil engineering design theory, principles, and construction practices in modern water treatment, production and distribution facilities.  • Excellent analytical skills.  • Familiarity with “CPUC” Rules and Regulations.  • Thorough understanding of the company’s standard drawings and specifications.  • Thorough familiarity with the company’s safety practices and procedures.  • Ability to communicate effectively, both verbally and in writing.  • Ability to write legibly and have good reading skills, as well as ability to quickly comprehend.  • Ability to manage projects and interact with all levels of company personnel, as well as contractors, outside vendors, public agency representatives, and the general public.  • Strong personal computer skills and knowledge of and experience with a variety of computer modeling, design and related software packages, such as Microsoft Word, Excel, Microstation, GIS related software, and water distribution system modeling software.  • Must be dependable, punctual, and have good attendance.  • Neat and presentable professional appearance.  • Ability to perform repetitive physical activities using feet, legs, hands, and arms, and be able to use a keyboard, walk, sit, stand, bend, stoop, climb stairs, reach, grasp, and occasionally lift up to 25 lbs.

**EDUCATION, TRAINING AND EXPERIENCE** The following are required:  • Undergraduate degree in Civil Engineering from an accredited college or university.  • California Professional Engineer (P.E.) certification required.  • Minimum of 5 years of civil engineering experience, preferably in water distribution system design.  • Valid California driver license and acceptable driving record.

San Gabriel Valley Water Company, with 242 employees, offers the following benefits: vacation, sick leave and 12 paid holidays; group medical, dental, life, and long term disability insurance; and 401(k) with company match. Submit cover letter with salary requirement and detailed resume to E-mail: HR@sgvwater.com with “Senior Engineer” in the subject line; Fax: (626) 442-2632; Mail to: Human Resources Manager, P.O. Box 6010, El Monte, CA 91734.
Announcing

**RMHwin**

Rational Method Hydrology software for San Bernardino, Riverside & Orange counties

in Windows

By Jack P. Norris, RCE

For complete information and pricing, and to download a trial version, please visit JPNRCE.com

---

**Disaster Preparedness**

On April 9, 2010, Neil Nilchian, PE, MASCE, Certified Trainer (San Bernardino / Riverside Counties Branch) and Ziad Mazboudi, PE, MASCE, Certified Trainer (Orange County Branch and Chairman of the Disaster Preparedness Committee, ASCE Region 9) held a 2nd Safety Assessment Evaluators training for the LA Section members in Orange County at the office of Irvine Ranch Water District. The training included 29 enthusiastic volunteers from different Branches, who completed the day long training and will receive a Cal EMA's authorization card as volunteers. Accordingly, they will be able to assist local governments, in cases of a disaster to assess if buildings are safe for public use. The committee has plans for another training event for the LA-Section in Fall 2010 for those who are interested to sign up. We would like to express our Special thanks to IRWD for use of their spacious conference room for this event. Please feel free to contact Neil, Ziad or Jack for additional information by visiting the LA-Section's website (www.asceslaection.org).

---

**Branch Calendar of Events**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stormwater Committee Dinner Meeting</td>
<td>Wednesday, May 12, 2010</td>
<td>Cocos Restaurant 4630 Mills Cr Ontario, CA 91764</td>
</tr>
<tr>
<td>ASCE/ACEC Joint Luncheon Meeting</td>
<td>Friday, May 21, 2010</td>
<td>Indian Hills Country Club 5700 Club House Dr Riverside, CA 92509</td>
</tr>
<tr>
<td>Tour du Green Sustainability Tour</td>
<td>Saturday, May 15, 2010</td>
<td>See website for information: <a href="http://venturavelo.org/id35.html">http://venturavelo.org/id35.html</a> <a href="mailto:tdg@venturavelo.org">mailto:tdg@venturavelo.org</a></td>
</tr>
<tr>
<td>2010 ASCE YMF Charity Golf Tournament</td>
<td>Friday, June 11, 2010</td>
<td>Eagle Glen Golf Club Corona, CA</td>
</tr>
<tr>
<td>YMF So Cal Soccer Tournament</td>
<td>Saturday, June 12, 2010</td>
<td>Sunset Point 1710 w Mission Bay Dr Mission Bay See Flyer on page 8</td>
</tr>
<tr>
<td>YMF White Water Rafting</td>
<td>June 25th – 27th</td>
<td>For questions contact: Rocio Duran at 714-614-0727</td>
</tr>
</tbody>
</table>

---

Disaster Preparedness

On April 9, 2010, Neil Nilchian, PE, MASCE, Certified Trainer (San Bernardino / Riverside Counties Branch) and Ziad Mazboudi, PE, MASCE, Certified Trainer (Orange County Branch and Chairman of the Disaster Preparedness Committee, ASCE Region 9) held a 2nd Safety Assessment Evaluators training for the LA Section members in Orange County at the office of Irvine Ranch Water District. The training included 29 enthusiastic volunteers from different Branches, who completed the day long training and will receive a Cal EMA's authorization card as volunteers. Accordingly, they will be able to assist local governments, in cases of a disaster to assess if buildings are safe for public use. The committee has plans for another training event for the LA-Section in Fall 2010 for those who are interested to sign up. We would like to express our Special thanks to IRWD for use of their spacious conference room for this event. Please feel free to contact Neil, Ziad or Jack for additional information by visiting the LA-Section's website (www.asceslaection.org).
If you’d like to have your business card or company information listed in the Professional Directory, Please Contact: The Branch Treasurer, Rita Escobar, at (714) 567-2498 or email at rita.escobar@aecom.com

Membership Information
Type of Membership and Annual Dues (National)

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

1. 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 1-800-548-ASCE (2723)
2. 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.
Mark Your Calendar
Executive Director of SanBAG, Norm King will be speaking about future Transportation Projects in San Bernardino County

Branch Luncheon
Date: Friday, May 21, 2010
Time: 11:30 am – 1:00 pm
Location: Indian Hills Country Club
5700 Club House Dr
Riverside, CA 92509
Cost: Members w/ RSVP $20
Deadline: Tuesday, May 18, 2010
More Info: See Announcement on page 5

Stormwater Committee Meeting
Date: Wednesday, May 12, 2010
Time: 6:00 pm – 7:30 pm
Location: Cocos Restaurant
4630 Mills Cr
Ontario, CA 91764
Cost: Members $35 (prepaid); $40 at the door with reservation/Non-members and walkup $45
Deadline: Tuesday, May 11, 2010
More Info: See Flyer on page 7