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Los Angeles Section

Monthly: Est. 1913

ORANGE / SAN_BERNARDINO/RIVERSIDE / SAN_LUIS_OBISPO / SANTA_BARBARA/VENTURA / DESERT /
SOUTHERN SAN_JOAQUIN / METROPOLITAN LOS ANGELES

PRESIDENT'S MESSAGE

John Rogers, P.E., F.ASCE
Los Angeles Section President



Awards

As we approach the last part of our ASCE year, the award notifications start to roll in. The Society's year starts on October 1, roughly coinciding with the Section annual meetings and the National Conference, which this year will be in Portland September 29 – October 1.

The awards that are given out by ASCE at all levels play a powerful part in our organizational identity. They give us one more reason, beyond the paycheck and the fun we have at work every day, to cherish this profession that we have chosen to follow. Awards of all sorts are vindication of our decisions, recognition by our peers that maybe we are doing better than we thought, and that someone is paying attention to our efforts. I was surprised in March to receive the Robert W. Bein Annual Lifetime Achievement Award; my immediate reaction was, "Oh my, they must have a real shortage of candidates this year". But I was deeply touched by the award, and know that it will be in my thoughts for the rest of my life. I look back to a remark made years ago by the late State Senator Claire Burgener, when a school for special needs children in Oceanside was named for him: "You've condemned me to be good for the rest of my life; if I do anything bad, they'll have to rename the school!"

Our local Branches are well into their awards cycle, singling out deserving individuals and projects, as well as awarding thousands of dollars to scholarship money to undergraduates at the eleven institutions that we support. Orange County started the awards parade in February, as usual way ahead of the pack. They recognized 22 outstanding projects awards and 13 individuals, including Kevin Onuma, P.E. from Orange County Public Works, as their Outstanding Civil Engineer in Public Service and Fred Minagar, P.E. in the private sector. Mr. Minagar has his own consulting firm in south Orange County, and also serves on the Laguna Niguel City Council; he is an answer to those in our profession who complain that not enough of us are willing to carry the load of elected office.

San Bernardino/Riverside's award ceremony was held just a few weeks ago at Riverside's new Convention Center. I was interested to note that four of their five project awards were in the Coachella Valley – Cathedral City, Calimesa, and Palm Desert. Their top individual award for a public employee went to Helio Takano of Riverside County Flood Control and Water Conservation District. Perhaps not coincidentally, Mr. Takano was the Project Engineer for the top project, the Eagle Canyon Dam and Debris Basin in Cathedral City. Riverside/San Bernardino's top Engineer in the private sector was Christopher Turnage, who works for PB World (the same company I worked for back in the middle of the last century!).

Outgoing Governor Perspective

by Gregg L. Fiegel, Ph.D., P.E., G.E., M.ASCE, ASCE Region 9 At-Large Governor



As I end my three-year term as Region 9 Governor, I approach my twenty-ninth year as a member of the American Society of Civil Engineers (ASCE). Looking back, I can reflect on countless challenges, opportunities, and rewards. Serving the profession and ASCE has been a tremendous honor. I truly appreciate the opportunity to have served students and professionals throughout our great state. My ASCE experience has provided me

with opportunities to meet and work with so many smart, interesting, and wonderful individuals, throughout California and the nation. Most of those I consider to be my very best friends are linked in some way to the civil engineering profession, which is a good thing! Civil engineers are fantastic people, committing their time, energy, and hard work to serve others in need.

As an instructor, I encourage my students, especially those newly admitted to the university, to develop their support networks. It is difficult to be successful in this world if you decide to go it alone. I know this based on over twenty-five years of observations and experience in the classroom and serving the profession. Individuals with large and diverse support networks exhibit remarkable

confidence; demonstrate excellent interpersonal communication skills; handle setbacks and failure well; earn fantastic personal and professional opportunities; and understand their own strengths and areas for improvement. My support network, formed primarily through ASCE, has contributed significantly to my success as a teacher and engineer. I am thankful for the many ASCE leadership opportunities and experiences and the role they have played in my personal and professional development. I encourage you all to continue to devote time, when you can, to our organization and the development of your support networks. Although not the underlying motivation, the rewards will be awesome!

Looking back on my service as governor, I am most proud of the work ASCE, my fellow governors, and our region's engineers have undertaken to support activities and advocacy related to water, sustainability, and infrastructure. Our drought crisis is not going away soon, and I worry we are realizing a new normal, moving forward. How will we continue to provide opportunity for all of California's residents with limited (and diminishing) resources? Our communities will look to us for leadership in addressing this tremendous challenge. Thanks to ASCE and the tireless work of our region's members, I am optimistic about the future. I look forward to future opportunities for collaboration with you all and the continued development of my support network. Thank you for opportunity to have served our great profession!

Bi-Monthly Board Meetings



Day:
First Thursday of every other month

Time:
6:00 pm

Location:
OCTA
550 S. Main St.
Santa Ana, 92868

Everyone is welcome

San Bernardino Riverside also gave out five scholarships totaling \$4,500. These students fully realize just how supportive the profession they are about to enter is to their efforts.

Our other branches have made similar efforts; the San Luis Obispo branch gave their awards out in Mid June. They also took a different scholarship direction, giving a cash award to a High School senior heading towards an engineering program in the Fall. The Southern San Joaquin Section will be recognizing highway and bikeway projects, a very intriguing building for its structural engineering challenges, and an interesting water project when they hold their awards ceremony in September.

LA Metro Section's awards ceremony was planned for July 15 at the Music Center's Dorothy Chandler Pavilion. Having a long reputation for elegant events at spectacular venues (last year's was on the top floor of Los Angeles City Hall), this year's program is bound to be worthy and rewarding. You can get there on the subway, too – it's a block from the Red Line Civic Center station.

We have already learned that a number of Los Angeles Section and Region 9 members have been notified by ASCE that they will be honored with National awards at the Annual Convention in Portland in September.

Douglas J. Sereno, P.E., D.PE, ENV SP, F.ASCE, has been awarded the William H. Wisely American Civil Engineer Award, recognizing Doug's leadership at the Port of Long Beach and his career emphasis on sustainable development. The award is presented to members of the society "who have exhibited continuing efforts to better the history, tradition, developments and technical and professional activities of the Society" He is currently the National chairman of the Committee on Sustainability, one of the Society's three Strategic Initiative Committees.

Ravi Shah, P.E., is currently Orange County's Government Affairs co-chairman, a tireless advocate for Younger Member Forums in LA and Orange County; he has also worked on the just-released Orange County Infrastructure Report Card. We have just learned that Ravi will be receiving the Edmund Friedman Young Engineer Award for Professional Achievement. The Committee on Younger Members particularly recognized Ravi's efforts in establishing the first pilot mentorship program in our Section.

Another of our truly outstanding younger members, Remi Candaele, Past President of the Orange County YMF, has been notified that the group will be receiving the Society's 2016 Younger Member Group Award for Large Groups. The selection committee particularly noted the OC YMF's outreach and community service efforts.

Finally, Dr. Craig A. Davis, Ph.D, P.E. G.E., at the Los Angeles Department of Water and Power is receiving the LeVal Lund Award for Practicing Lifeline Risk Reduction. His research at LADWP "has literally changed the way that pipeline manufacturers are addressing seismic risk."

On a Statewide level, in Region 9 we are honored to have one of the nominees for the Society's Distinguished Members, Class of 2016. Dr. Jay R. Lund, Ph.D., F.EWRI, Professor of Civil and Environmental Engineering at UC Davis, chair of the Delta Independent Science Board, and director of the Center for Watershed Sciences, Dr. Lund continues to play a vital role in helping California's decision makers to understand the very complicated processes that will dictate the resolution of the State's water problems for years to come.

Perhaps we can gain some understanding of the importance that all of these awards, both individual, project and scholarship grants have in encouraging us to participate in ASCE programs and activities, to congratulate our peers and fellow engineers when they are nominated or receive an award, and to let our clients know how much we appreciate their projects, their visions (and of course, their contracts that pay our bills). It all makes me proud to be a Civil Engineer.



State Investments and Legislative Update

by Richard Markuson, CA Region 9 Legislative Advocate



The State Legislature is in month eight of its 2016 session, and many infrastructure issues – including the transportation special session – are still pending. The budget package proposed by Governor Brown was stripped of a transportation funding component that some felt was inadequate – the intention being to focus on the existing special session called by Governor Brown to address additional transportation revenue and efficiencies.

Two Senate policy committees approved ASCE supported AB 2800 (Quirk D) that establishes a Climate-Safe Infrastructure Working Group at the Natural Resources Agency to examine how to integrate scientific data concerning projected climate change impacts into state infrastructure engineering. The bill now goes to the Senate Appropriations Committee. Senator Ted Gaines (R-El Dorado Hills) voted no in Senate Environmental Quality and Senators Jeff Store (R-Indio) and Andy Vidak (R-Fresno) voted no in Senate Natural Resources and Water. The bill embraces the findings of a 2015 ASCE report - *Adapting Infrastructure and Civil Engineering Practice to a Changing Climate* that presents an accurate discussion of the potential significance of climate change to engineering practice.

The Senate Natural Resources and Water Committee also passed ASCE supported AB 1928 (Campos D-San Jose) that extends the date the California Energy Commission is required to adopt landscape irrigation equipment performance standards and labeling requirements to January 1, 2018. The bill also requires the CEC to take into consideration recent developments in landscape irrigation efficiency when developing the standards and requirements.

The State Senate passed ASCE supported SB 885 (Wolk D-Davis) on a 26-4 vote with 10 abstaining. SB 885 would have required a design professional to pay a reasonable allocated share of defense fees and costs with respect to claims and lawsuits alleging negligence, recklessness, or willful misconduct of the design professional. Unfortunately, the bill stalled in the Assembly when the Assembly Judiciary Chairman refused to support the bill – dooming it.

The Assembly Business And Professions Committee approved ASCE supported SB 1085 (Roth D-Riverside) that will require licensees under the BPELSG, upon renewal of their license, to complete a board-administered online assessment to reinforce their knowledge of laws applicable to their practice area. It provides that failure to complete the assessment within the allowed timeframe is cause for disciplinary action but provides that failure to complete this assessment does not prohibit renewal. Assembly Members Gatto and Gomez voted NO.

The Assembly will vote on SB 1165 (Cannella D) when they return

in August. The bill extends the delinquent license reinstatement timeframe of a professional engineer and land surveyor's license from three to five years after the expiration of the license. The bill also allows geologist applicants to substitute relevant study in geology, for a degree, to apply for licensure.

Appointments

To California Board of Professional Engineers, Land Surveyors and Geologists: **Steve Wilson**, Monterey, of Monterey Bay Engineers Inc. Wilson is the Professional Land Surveyor Member

To California Transportation Commission: **James Ghielmetti** (reappointed), San Francisco, Democrat, founder and CEO of Signature Homes, Inc.

Recent Reports

California may have a huge groundwater reserve nobody knew about A new Stanford study has found that drought-ravaged California is sitting on top of a vast and previously unrecognized water resource, in the form of deep groundwater, residing at depths between 1,000 and nearly 10,000 feet below the surface of the state's always thirsty Central Valley.

Dead trees don't mean catastrophe for California Char Miller writing in the SacBee writes, "Tree mortality does not necessarily equal an escalation in fire risk, catastrophic or otherwise. That's evident in the record of the last 10 years of fires in the Sierra.

Jay Lund via California Water Blog asks, "**How bad is California water management?**" "California's combination of climate, native ecosystems, and human uses makes water management inherently hard, unsatisfactory, and evolving. California is doomed to have difficult and controversial water problems. No matter how successful we are."

State Water Resources Control Board has released statewide water conservation data, finds "percentage of water saved collectively by the state's large urban water suppliers climbed from 24.3 percent in March to 26.1 percent for April, as compared to the same months in 2013, which serves as the baseline for determining water savings."

PPIC Water Policy Center has released its report, "Managing Water for the Environment During Drought: Lessons from Victoria, Australia," outlines four general lessons that "could be of high value" to California: Better planning prior to droughts can improve drought resilience of native species and reduce conflicts; strong federal-state partnerships – involving both policies and funding – are vital to reducing drought impacts; granting the environment a water right that can be traded improves flexibility in environmental water management during drought; and integrating the environment as an equal priority to other water uses improves drought preparation and response.

The Little Hoover Commission has released a letter to Gov. Brown

and the Legislature calling for “urgent action” at the Salton Sea to “prevent a massive public health, environmental and economic disaster,” among its recommendations: “Making the Salton Sea a priority for the administration and policymakers equal to high speed rail, the twin tunnels, reduced carbon emissions and increased renewable energy. Streamline and expedite contracting and enact legislation to ensure any lawsuits related to the proposed projects are resolved quickly.” They moved quickly - The state budget Gov. Brown signed this week includes \$80.5 million for restoration of the Salton Sea — more than California has ever allocated for the state’s largest and most troubled lake.

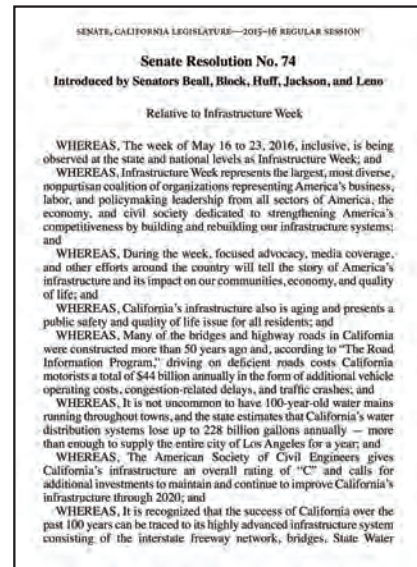
Caltrans releases **California Transportation Plan 2040**, a long-range look at how to meet the state’s transportation needs that is “multimodal, sustainable and environmentally responsible;” recommends increasing mass transit, reducing miles driven by single-occupancy vehicles and improving facilities for bicyclists and pedestrians.

The American Journal of Public Health released *Impacts of Urban Water Conservation Strategies on Energy, Greenhouse Gas Emissions, and Health: Southern California as a Case Study*. “We demonstrate that expanded use of recycled water in California, on top of being an effective water conservation strategy, would result in significant health benefits. This is primarily because expanded use of recycled water would dramatically reduce energy consumption and GHG emissions associated with urban water consumption, but also because recycled water can be used to promote green spaces for recreational uses and to mitigate urban heat island effects. Ironically, public health concerns have traditionally been a barrier toward expansion of recycled water, even though the risks associated with recycled water use do not exceed those found in traditional water supplies. Public health professionals can play an important role in promoting the health benefits of recycled water and by working with colleagues in other sectors to advance the safe and appropriate expansion of recycled water use.”

The Frontier Group released *A New Way Forward: Envisioning a Transportation System without Carbon Pollution*. “America’s transportation system produces more greenhouse gas pollution than any entire nation in the world other than China, India and Russia.... [E]liminating greenhouse gas emissions from our urban transportation systems is going to require more than incremental change—it will require transformation.... By employing smart strategies to repower our vehicles with electricity, reduce growth in vehicle travel, and optimize the efficiency of our transportation network, America’s urban areas can reduce energy demand for light-duty vehicles by as much as 90% below anticipated levels by 2050.”

The California State Transportation Agency released *California Sustainable Freight Action Plan (Draft Discussion Document)* “The California Sustainable Freight Action Plan is an ambitious statewide effort to improve freight efficiency and transition the freight transport system to zero-emission technologies, while continuing to support California’s economy.... The integrated action plan will identify strategies and actions to achieve a sustainable freight

transportation system that meets California’s environmental, energy, mobility, safety and economic needs.” This report is currently in discussion draft form, and public comments were being solicited through July 6. The final draft is expected later that month.



The following updates are coincident with the State Legislature's month seven of its 2016 session.

In May, the CTC adopted its funding plan that cuts \$754 million and delays another \$755 million in spending. *Inland News Today* notes that it is the largest funding reduction since the current state transportation funding structure was adopted 20 years ago. Sen. Anthony Cannella,

writing in the *Fresno Bee*, said, “The longer we wait, the more it costs us.” *The Fix Our Roads Coalition* rally at the State Capitol occurred, appropriately, during *Infrastructure Week* which was memorialized by Senator Jim Beall with SR 74.

ASCE is supporting AB 2800 (Quirk D) that establishes a Climate-Safe Infrastructure Working Group (Working Group) at the Natural Resources Agency (NRA) to examine how to integrate scientific data concerning projected climate change impacts into state infrastructure engineering. The bill was approved by the Assembly Appropriations Committee and is awaiting final Assembly passage.

ASCE also supports AB 1928 (Campos D) that extends the date the California Energy Commission (CEC) is required to adopt landscape irrigation equipment performance standards and labeling requirements from January 1, 2010 to January 1, 2018. The bill also requires the CEC to take into consideration recent developments in landscape irrigation efficiency when developing the standards and requirements.

Awaiting final Senate passage is ASCE supported SB 885 (Wolk D) that would require a design professional to pay a reasonable allocated share of defense fees and costs with respect to claims and lawsuits alleging negligence, recklessness, or willful misconduct of the design professional.

Killed in the Assembly Appropriations Committee was ASCE supported AB 1873 (Holden D) that would have established a Board of Infrastructure Planning, Development, and Finance within the Office of Planning and Research. The author stated, “California presently lacks a unified body to oversee all infrastructure planning and project development, resulting in California’s infrastructure

needs frequently being addressed on a subject-by-subject basis, and only once a portion of the state's infrastructure has reached the point of near-failure." To alleviate this perceived lack of unitary planning AB 1873 would have created a new government entity to oversee the planning and financing of infrastructure projects at all levels of government throughout the state, including local governments and special districts.

The Senate approved ASCE supported SB 1085 (Richard Roth D) that will require licensees under the BPELSG, upon renewal of their license, to complete a board-administered online assessment to reinforce their knowledge of laws applicable to their practice area. It provides that failure to complete the assessment within the allowed timeframe is cause for disciplinary action but provides that failure to complete this assessment does not prohibit renewal.

The Senate also approved SB 1165 (Cannella D) that extends the delinquent license reinstatement timeframe of a professional engineer and land surveyor's license from three to five years after the expiration of the license. The bill also allows geologist applicants to substitute relevant study in geology, for a degree, to apply for licensure.

Appointments

To Delta Stewardship Council: **Randy Fiorini** (reappointed), Turlock, served as chair of the council since 2014; also managing partner and farmer at Fiorini Ranch since 1975. **Ken Weinberg**, San Diego, adjunct lecturer at CSU San Marcos and principal and owner at Ken Weinberg Water Resources Consulting LLC.

Recent Reports

State Water Resources Control Board released statewide water conservation data, finds statewide water savings for March 2016 compared to March 2013 was 24.3 percent (107,468 acre feet or 35.0 billion gallons), which is "more than double February 2016's 12.0 percent savings rate," also says cumulative statewide percent reduction for June 2015 - March 2016 is 23.9 percent, which equates to 1,295,703 acre-feet (422.2 billion gallons).

Public Policy Institute of California released California's Water Market. By Ellen Hanak, et al. This overview of California's water market suggests that it is a tool for managing scarce supplies, trading has been flat since the early 2000s, the farm sector accounts for most sales, these sales also support the environment, approving transfers is complicated, and reform could help the water market in California to run more smoothly.

BioScience released *Flow Management for Hydropower Extirpates Aquatic Insects, Undermining River Food Webs* by Theodore A. Kennedy, et al. "Dams impound the majority of rivers and provide important societal benefits, especially daily water releases that enable on-peak hydroelectricity generation. Such 'hydropeaking' is common worldwide, but its downstream impacts

remain unclear.... Our model predicts that aquatic-insect abundance will depend on a basic life-history trait—adult egg-laying behavior—such that open-water layers will be unaffected by hydropeaking, whereas ecologically important and widespread river-edge layers, such as mayflies, will be extirpated. These predictions are supported by a more-than-2500-sample, citizen-science data set of aquatic insects from the Colorado River in the Grand Canyon and by a survey of insect diversity and hydropeaking intensity across dammed rivers of the Western United States."

Water Research Foundation released *Residential End Uses of Water, Version 2: Executive Report* by William B. DeOreo, et al.. An updated and expanded assessment of a 1999 report on residential water use, this report finds that the average annual use of water per household is 88,000 gallons, indoor water use is 138 gallons per household per day, 33.2% of total indoor water use is associated with household hot water use, and average annual outdoor water use per household per year is 50,500 gallons. Since the 1999 report, there has been a decrease in residential indoor water use in single-family homes, due in large part to improved water efficiency of clothes washers and toilets.

American Lung Association released State of the Air 2016 by Janice E. Nolen, et al.. This report "looks at levels of ozone and particle pollution found in official monitoring sites across the United States in 2012, 2013, and 2014. The report uses the most current quality-assured nationwide data available for these analyses. The report examines particle pollution ... in two different ways: averaged year-round (annual average) and over short-term levels (24-hour). For both ozone and short-term particle pollution, the analysis uses a weighted average number of days that allows recognition of places with higher levels of pollution. For the year-round particle pollution rankings, the report uses averages calculated and reported by the U.S. Environmental Protection Agency (EPA)." Continued and best progress came generally from reduction in ozone and particle pollution. Out of 25 metropolitan areas, Los Angeles has the worst ozone pollution, though it did report its best air quality in the history of the State of the Air study.

Grace Communications Foundation released Water Footprint Calculator..This tool "provides a snapshot of how your daily activities and routines impact your water use. The results, reported as your water footprint, are meant to be an estimate that can help you better understand your habits and behaviors and their contribution to your overall water footprint.... The calculations used in the WFC are an estimate. The data is the latest available at the time of creation of the calculator. In some cases, we have used data from studies that looked at personal water use based on individual behaviors. In other cases, we took national data and created statistical averages and values to calculate individual water use."

Board of Directors of the Los Angeles Section Candidates for Board positions:

The Nominating Committee of the Board of Directors of the Los Angeles Section has presented for your consideration three candidates for Board positions:



For President-Elect, to serve a one-year term beginning on October 1, 2016, followed by a year as President of the Section in 2017-2018, and finally an additional one-year term as Immediate Past President in 2018-2019, **Mr. Jerry L. Burke, P.E., M.ASCE**. Jerry received his Civil Engineering degree at Tennessee

Technological University, worked in the public sector at LA County Department of Public Works followed by four years in the private sector with Penco Engineering in Irvine. He then began a six-year assignment as City Engineer and Assistant Public Works Director for the City of Glendora. Earlier this year, he was appointed as Deputy Manager of Engineering and Construction Management for the Inland Empire Utilities Agency in Chino.



Nominated for a second two-year assignment as Vice President of Technical Groups, **Khashayar (Kash) Hadipour, Ph.D., P.E., M.ASCE**, is Vice President and National Aviation Lead for Kleinfelder in downtown Los Angeles, where he has worked for ten years. He has developed and implemented successful aviation strategic plans for several major firms. Kash earned his B.Sc. in Structural Engineering at the

University of Sussex, Brighton, England, followed by M.Sc. and Ph.D. degrees in Transportation Engineering from the University of Alberta, Canada. His early career included work in both the public and private sectors, including jobs in Canada and Iran. In the U.S., his career has included assignments with regional and national firms including Golder Associates, AECOM and AMEC.



Nominated for a two-year term as Secretary is **Ziad Mazboudi, P.E., F.ASCE, LEED AP, DIPL WRE**. Ziad earned his BSCE degree at the American University of Beirut and his MBA at California Southern University. He has worked in both the public and private sectors, filling increasingly responsible positions in the Cities of La Habra, Westminster and San Juan Capistrano before accepting an appointment as Vice Secretary General of the Economic

Cities Authority in Saudi Arabia. Returning to the U.S. last year,

he is currently the Senior Civil Engineer in charge of Public Works Operations for the City of Laguna Niguel.

In accordance with the By-laws of the Section, these three candidates are submitted for your consideration. Additional candidates for each office may be nominated by petition signed by a minimum of 50 voting members (ASCE members with a grade of Associate or higher whose dues are current), accompanied by a statement of acceptance from the candidate. If no such nominations by petition are received, the three candidates presented by the nominating committee shall be considered to be elected by acclamation.

Petitions are due within 30 days of the distribution of this announcement and should be submitted to:

ASCE Los Angeles Section
c/o Gayle Stewart Enterprises
1405 Warner Ave., Ste. B
Tustin, CA 92780

John B. Rogers, P.E., F.ASCE
 President, Los Angeles Section,
 2016-2017

ARTICLE



The Industry Leaders Council engages senior leaders from industry, academia, government, and non-governmental organizations to identify tactical actions for ASCE and the civil engineering profession.

Membership on the ILC is by invitation only. Council members commit to a two (2) year term of service. Potential candidates are nominated by their peers and those candidates selected to join the ILC receive an invitation from the ILC Chair and ASCE Executive Director.

Interested in learning more about the ILC? The ILC is always looking for dedicated, active, and dynamic leaders to join them in their work for the industry. Please contact Carol Vargas (cvargas@asce.org), Director of Industry Relations for information.



www.ascelasection.org

For more details, please visit <http://icsi2016.org/>

INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE – ICSI 2016

A Sustainable Future for China, the Asian Region and the World

Shenzhen, People's Republic of China | October 17-19, 2016

Creating Infrastructure for a Sustainable World

Sponsored by Chinese Academy of Engineering (CAE) and US National Academy of Engineering (NAE)

TOP REASONS TO ATTEND

- Learn from and network with industry leaders and sustainable infrastructure practitioners from around the world
- Learn from successful case studies the best examples of sustainable infrastructure
- Understand industry trends and public policy leading to sustainable development
- Share latest advances in sustainable infrastructure planning, design, and construction
- Learn about new tools and latest research to support sustainable infrastructure
- Learn how to plan infrastructure for climate change and resiliency
- Learn about innovative approaches to infrastructure project financing
- Be a contributor to the comprehensive international conference on infrastructure sustainability and resiliency

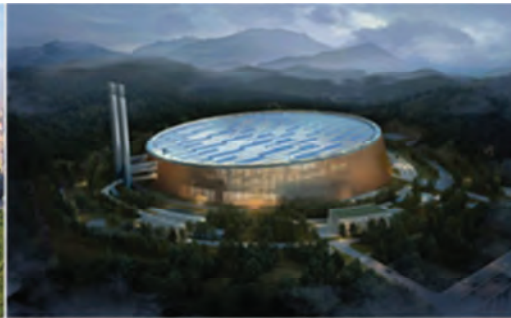
WHO SHOULD ATTEND

The conference is organized to facilitate exchange of information and knowledge among civil infrastructure professionals, practitioners, public infrastructure owners, policy makers, government engineers and planners, operations managers and leading applied academics.

CONFERENCE TOURS



International Low Carbon City



Waste-to-Energy Recovery
Center



Shenzhen Transportation
Center



Awards:

Best Paper and Best Poster Award for Young Participants under 40.
Best Papers will be selected for publication in Chinese Academy of Engineering (CAE) journal.



PLENARY SPEAKERS



Dr. David J Nash, NAE
Chair, Section 4: Civil Engineering
National Academy of Engineering, USA

Sustainability / makes good sense for public and private entities.



Dr. G. Wayne Clough, NAE
President Emeritus, Georgia Institute of Technology;
Former Secretary, Smithsonian Institution

Why Engineering Matters in the Climate Change Debate



Dr. Glen T Daigger, NAE
Professor of Engineering Practice, University of Michigan

The Prerequisites for Sustainable Urban Systems: Covering All the Bases



Dr. John C Crittenden, NAE, CAE
Director, Brook Byers Institute
for Sustainable Systems
Georgia Institute of Technology, USA

Sustainable Urban Infrastructure Systems: Gigatechnologies to Address 'Gigaton' Problem



Dr. Yunhe Pan, CAE
Former Executive Vice President, Chinese Academy of Engineering; Standing Committee Member, 12th CPPCC; Director, Foreign Affairs Committee 12th CPPCC

TBD



Dr. Guangtao Wang
Former Minister, Housing and Urban-Rural Development Ministry, People's Republic of China; Director, Environment and Resources Protection Committee of the 11th National People's Congress

TBD



Dr. Jiming Hao, CAE
President, Environmental Science and Engineering Institute, Tsinghua University

Energy Reform and Air Quality Improvement: Beijing Case



Dr. Yihui Ding, CAE
Professor and Special Advisor on Climate Change, China Meteorological Administration; Vice-Chairman, China Expert Panel on Climate Change

Impact of climate change and urbanization on extremely intense rainfalls in megacities of China

KEYNOTE SPEAKERS

Dr. Chris Kennedy
University of Victoria

Dr. Cliff I Davidson
Syracuse University

Dr. David L. Sedlak, NAE
University of California, Berkeley

Dr. David R Maidment, NAE
University of Texas at Austin

Dr. David T Allen
University of Texas at Austin

Dr. David A Dzombak
Carnegie Mellon University

Dr. Wei Wang
CAE Academician

Jinsong Zhang
Shenzhen Water Group

Dr. Paul F. Boulous, NAE
Innovyze

Dr. Pedro J. J. Alvarez
Rice University

Dr. Samuel T Ariaratnam
Arizona State University

Dr. Yongsheng Chen
Georgia Institute of Technology

Mr. Fergal Whyte
Arup

Mr. Steve Foran
Jacobs

Dr. Shouqing Wang
Tsinghua University

Dr. Menachem Elimelech, NAE
Yale University

Dr. Ming Xu
University of Michigan

Mr. William A. Wallace
Wallace Futures Group

Dr. Fasheng Li
CRAES

Dr. Guofang Shen, CAE
CRAES

Dr. Kevin Jones
Lancaster University

Dr. Nanqi Ren
Chinese Academy of Urban Planning and Design

Dr. Yisheng Shao
Chinese Academy of Urban Planning and Design

Dr. Hao Wang, CAE
CRAES

Dr. Max Dohmann
RWTH Aachen University

Dr. Guanghao Chen
RCEES

Dr. Jianping Wen
Origin Water

Dr. Wenhua Li, CAE
CRAES

Dr. Jixi Gao
CRAES

Dr. Steve Clark
Suez-Asia

IMPORTANT DATES

Abstracts Due (Extended): June 30, 2016

Abstract acceptance: July 15, 2016

Final Manuscript Deadline: July 30, 2016

CRAES STAFF CONTACT

Mengheng Zhang, Director of International Collaboration, CRAES;

Tel: +86-10-84915198; zhangmh@craes.org.cn

Ms. Teng Qi (Tel: 86-10-8491521)

ASCE Region 9 – California Legislative Advocacy Day on May 18, 2016 during National Infrastructure Week

by Craig A. Copelan, P.E., T.E., F.SEI, Member, ASCE Region 9 Government Relations Committee



Civil engineers from across California convened in Sacramento on Wednesday May 18 to celebrate National Infrastructure Week and to advocate for California infrastructure, by visiting with their legislators during the ASCE Region 9 annual Legislative Day. This year as in the past, the event was a tremendous success with more than 50 members participating from the public and private sectors who shared a common message about the importance of renewing our infrastructure. Highlights of the day included a public relations and legislative training session provided by ASCE staff member Maria Matthews, Manager, State Government Relations, followed by a keynote address by Assembly Member Jim Frazier. After a morning

spent training and preparing, the participants visited the State Capitol to meet with their legislators. The event went very well, and all involved felt that they had gained new insights into the importance of civil engineers being involved in the decision making process on infrastructure. Each of the participants displayed great enthusiasm and a few served as good examples for their contributions during the legislative visits this year, Ms. Joyce Cheung (a first time participant) who works for GHD Engineering as a water resources engineer in their Santa Rosa office, and Mr. Darwin Vargas who works as a bridge engineer for Caltrans at their engineering service center in Sacramento.

Engineering is about using science to find creative and practical solutions to problems. This can include providing thoughtful input to decision makers who are considering how to restore our infrastructure. If you are interested in finding out how to become a voice for infrastructure restoration within your community check out



ASCE Region 9 Members Visited the State Capitol on May 18 to Advocate for California Infrastructure

ASCE's key contact program which can provide you with opportunities to advocate for greater infrastructure funding and other issues of importance to the profession: <http://www.asce.org/keycontacts>.

In summary, the 2016 ASCE Region 9 Legislative Advocacy day was a great success, providing members with the opportunity to gain experience speaking about important technical issues impacting California's infrastructure with their legislators. Many thanks to all who attended!

If you would like to learn more about the activities of the Region 9 Government Relations Committee, please contact Mojgan (MJ) Hashemi, Chair, ASCE Region 9 Government Relations Committee, mhashemi@mw20.com



ASCE members visited the Assembly floor during the Region 9 Legislative Advocacy Day



From left to right, Fly-In attendees Sharareh Tavafrashti and Kelly Ferguson, Assembly Member Bill Quirk, Mojgan (MJ) Hashemi, ASCE Region 9 Government Relations Committee Chair, and Diana Lin, Environmental Engineer and Science Fellow with AM Quirk's Office



Keynote Speaker Assembly Member Frazier; being welcomed by Richard Markuson, ASCE Legislative Advocate, and being thanked by Mojgan Hashemi, ASCE Region 9 Government Relations Committee Chair



Three Keys to Success for Women in Civil Engineering, Shared by ASCE Convention Speaker

by Ben Walpole, July 22, 2016



Carolyn J. Emerson

Carolyn J. Emerson has made it her life's work to empower women with the skills to take ownership over their careers – and lives.

As one of the Distinguished Lecturers at the ASCE 2016 Convention, Emerson will bring that passion and expertise to her talk on women and leadership in STEM fields, Friday, Sept. 30. She also will be participating in the Convention's Women In Engineering Workshop, Saturday, Oct. 1.

Her book, *Becoming Leaders: A Practical Handbook for Women in Engineering, Science, and Technology*, is a bestseller for ASCE Press, and she continues to empower women around the world through various workshops and with the WinSETT Centre (Canadian Centre for Women in Science, Engineering, Trades and Technology).

Emerson shared with ASCE News her three keys to success for women in civil engineering:

1. Lead Wherever You Are

You can develop and show your leadership abilities at any stage of your career – as part of your work team, as a project lead, as a conference or seminar organizer, or in your professional organization.

As you succeed, you also show the way for others and influence those around you, helping to create a supportive work environment for everyone.

2. Develop a Career Plan

It is important to include both short- and longer-term aspirations and actions as you map out your career plan.

Developing and implementing a plan means that you are proactively taking responsibility for your own career. The plan should also be flexible, however, to deliberately adjust for important events in your life – children, gain/loss of a job or significant other, relocation, etc.

3. Learn and Practice Specific Leadership Competencies

These may include among others:

- Effective communication skills (helping you to be heard, effectively convey your ideas and solutions, exchange information, and gain recognition and self-confidence)
- Negotiation skills (for opportunities, resources to enhance productivity, recognition, financial benefits, promotions, access to networks)
- Developing networks, mentors and sponsors (to mutually benefit from information, support and potentially access to opportunities in support of your career goals)

Tools & Training

The following Government Relations tools and trainings are tools available to ASCE members to advocate for and talk about our profession and our interests.

GR University training

"Is ASCE allowed to lobby legislators?" "How do I invite an elected official to my Section meeting?" Learn the answers to these and many more questions on how your Region, Section, or Branch can get involved in government relations activities to better influence policy debates. This day-long, in-depth program will help guide your Section or Branch to expand ASCE's government relations presence at the local and state levels.

PR University training

Participate in this hands-on workshop in Washington D.C. and major cities around the country to gain an introduction to public relations, learn tools and tips for implementing public relations into local activities and professional work, and build a network of engineering advocates across the country.

Legislative Fly-In

Become a part of the legislative process by participating in this annual two-day program in Washington, D.C. Attendees meet with elected officials to advocate for technical and professional issues. State Public Affairs Grant (SPAG) Program

SPAG works in conjunction with ASCE's goal to enhance the image of civil engineers as leaders and experts on America's vital infrastructure systems, and to encourage advocacy on ASCE priority issues that are important to civil engineers. Apply for a SPAG grant to leverage current Section funding for a new initiative, adding a new component to your existing work, or funding an innovative idea for outreach.

State Government Relations Manual

Start or grow a government relations program in your Section or Branch with the tips and tools contained in this manual.

State legislative tracking

Visit www.asce.org/multistate to find out more about the latest legislative or regulatory activity at your state capital.

Key Contact Program & Action Plan

Are you interested in influencing the policy process in Congress and your state legislature? Join ASCE's Key Contact Program and learn how to make your voice heard.

Back Home Visits

Schedule a Back Home Visit or attend a local Town Hall Meeting or other event with an elected official to raise the issue of infrastructure. See House and Senate schedules for upcoming opportunities.

Materials to share the Report Card for America's Infrastructure
Want to talk about infrastructure issues with local community groups, professional organizations, and other non-engineers? Find Report Card PowerPoint presentations, state fact sheets, infographics, videos, and much more in our "outreach toolkit", exclusively for ASCE members. To access the toolkit, please contact Brittney Kohler, manager for infrastructure initiatives.

Resolved: We Must Raise the Bar to Advance the Profession

by Mark Woodson, Reprinted from ASCE News



The past 10 months have brought clear and unmistakable statements from organizations at the heart of licensure: The future education of P.E.s can't remain stuck in a century-old holding pattern.

At its recent annual meeting in Dallas, the National Society of Professional Engineers' House of Delegates voted overwhelmingly to approve an updated policy that "supports the concept of engineering licensure candidates meeting additional academic or other educational requirements as a prerequisite for engineering licensure." The vote was 77 to 17 in favor, with delegates from only eight states opposing. Leading up to that decision, both the NSPE Board of Directors and the Past President's Council had deliberated the issue and voted without dissent to support the updated policy.

Less than a year ago, the National Council of Examiners for Engineering and Surveying, the organization representing engineering licensing boards, voted by a nearly two thirds margin to adopt a position statement affirming that the "future demands for increasing technical and professional skills have resulted in the need for additional education beyond the bachelor's degree for those entering the engineering profession."

I hope you notice a pattern here.

The engineering groups that deal with the future of licensure know that we need to align engineering education to a changing world. The complexity of engineering practice continues to explode while the credit hours required to obtain an engineering bachelor's degree continue to decline. Something has to give. Future licensed professional engineers are going to need additional foundational background through formal education.

All this affirms again what a major National Academy of Engineering report said over a decade ago: "The exploding body of science and engineering knowledge cannot be accommodated within the context of the traditional four-year baccalaureate degree."

The need for more education is clear. Our focus remains how and when to implement this change. We believe the standard should require future civil engineers to have an accredited bachelor's degree, and either an engineering master's degree or 30 graduate/upper-level technical/professional practice credits plus appropriate experience.

In advance of the NSPE vote, I wrote then-NSPE President Tim Austin expressing ASCE's support for passing the updated Policy 168, but also noting ASCE's concern about whether academic rigor and examination would be sufficient when the NSPE policy refers to pre-licensure "professional development education."

It's time for the next step in building the future of our profession and protecting the public health, safety and welfare. It's time to Raise the Bar for civil engineering.



President Mark Woodson and Executive Director Tom Smith stand atop the newly dedicated international historic landmark Cape Agulhas Lighthouse in South Africa.

A Great Idea from the Life Members

The ASCE Life Members' Public Image Committee request that members take their (to be discarded) Civil Engineering magazines to their doctor's office or barber shop and merge them with the stack of magazines. We feel that this will be an effective way to make the general public more aware of what civil engineers do.



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Publisher

ASCE LA Section
Gayle Stewart
1405 Warner Ave., Suite B
Tustin, CA 92780
Phone (714) 258-8306
Fax (714) 258-8391
E-mail: GStewart@associationplanet.com

Editor

Dr. Cris B. Liban, P.E.
LACMTA
One Gateway Plaza
Mail Stop 99-17-2
Los Angeles, CA 90012
Phone (213) 922-2471
FAX (213) 922-6875
E-mail: cliban@alumni.ucla.edu
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