

Los Angeles Section

Monthly: Est. 1913

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OFFICERS'S MESSAGE

Seema C. Shah-Fairbank, P.E., Ph.D., M.ASCE
Los Angeles Section President

President's Message



June is upon us and the summer season has started. The Los Angeles Section has had a wonderful year and many things to celebrate.

Annually, ASCE's Committee on Student Members selects the single most outstanding Student Chapter within ASCE. Congratulation to California State University, Northridge (CSUN) for receiving the 2021 Robert Ridgeway Student Chapter Award. The student chapter worked to offer their members several opportunities to develop socially and professionally. They did not allow the pandemic to slow down their momentum. They hosted numerous events, workshops and information sessions virtually.



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To promote excellence among ASCE Younger Member Groups, the Committee on Younger Members Awards the best Large and Small Groups. The 2021 winner for Large Groups is the Orange County Younger Member Forum (OC YMF). OC YMF strives to provide essential values to develop future leaders and foster the growth of their members to better serve the public and community. They promote civil engineering through events such as the LA Section Popsicle Bridge Competition. Engage student member to evaluate their career trajectory through the Pathways Program. Support younger members by offering a PE Review course. They do this all while having networking, developing friendships and having fun.

For their professional achievement ASCE recognized Mr. Nestor J. Godinez, P.E., M.ASCE (Orange County YMF) and Amit S. Joshi, P.E., M.ASCE (Metro Los Angeles YMF) with the Edmund Friedman Young Engineering Award for Professional Achievement.



Nestor Godinez is an Associate Engineering with SLR Consulting and has been a dedicated member of ASCE OC YMF for over seven years, having previously serving as President. Currently, Nestor serves as the WRYMC 2021 Conference Co-Chair, having the huge responsibility of leading the planning and execution efforts of the virtual WRYMC 2021 and in person WRYMC 2023. Nestor is a Corresponding Member on the Committee for Younger Members.

Amit Joshi is a Senior Dam Safety Engineer at the California Department of Water Resources, Division of Safety of Dams. He is an active member within Metro Los Angeles YMF and Branch. He is a founding member of ASCE SEI Los Angeles Chapter. Currently, he serves as the Chair for ASCE SEI Los Angeles Chapter and MLAB Professional Development. He is a board member of the SEI Sustainability Committee.

Congratulations!!! The Los Angeles Section of ASCE is proud of all your accomplishments.



Disaster Preparedness Update

by Doug Taylor, P.E., M.ASCE, Chair, ASCE Region 9 Disaster Preparedness Committee



Wildfires are the “New” California Disaster. It’s been a long time since Safety Assessment Program (SAP) volunteers were needed after a major earthquake in California. Not so with fires. In 2019, 21 SAP-trained and certified volunteers from ASCE assisted the town of Paradise to perform rapid inspections of approximately 18,000 homes and commercial properties following the deadly Camp Fire. Last September, not even a year later, 15 ASCE SAP

volunteers living in the area of Fresno assisted Fresno County to do rapid assessments of roughly 2,000 homes after the Creek Fire, California’s largest in terms of acres burned. A week later, more ASCE SAP volunteers assisted Napa County after that fire. All these volunteers were trained and pre-certified so they could respond when they were needed.

To get trained and certified before COVID, you had to attend a 5-to-6-hour session IN PERSON, typically given on a Saturday. But now you can get trained and certified in the comfort of your home via Zoom. No travelling, no expense for meals or the training site... it’s all FREE!

I’m hosting SAP training/certification via Zoom on Saturday, August 21st starting at 9:00 am. These Zoom sessions go quicker than the

in-person sessions, so expect to be done by 1:00 pm. Just email me at dtaylor@outbackmaterials.com and give me your full name, cell phone number and whether you’re a licensed engineer or “other” professional. I’m only registering licensed PEs for this session (no EITs for now).

I hope you’ll take advantage of this opportunity. Then you’ll be ready to help people who desperately need your skills.



ASCE Lifelines Conference 2021 2022

1971



University of California, Los Angeles
February 9, 2021 > February 7-11, 2022

Join Us in Los Angeles in 2022!

On behalf of the Program Committee, you are cordially invited to participate in the San Fernando Earthquake Conference to be held February 7-11, 2022.

The ASCE Infrastructure Resilience Division (IRD), in partnership with The University of California, Los Angeles (UCLA), are hosting the San Fernando Earthquake Conference – 50 years of Lifeline Engineering (Lifelines2021-2022), focusing on “Understanding, Improving & Operationalizing Hazard Resilience for Lifeline Systems.”

While the original in-person conference schedule for February 2021 was postponed one year due to Covid-19, conference-related activities commenced with the a Webinar featuring State Geologist Steve Bohlen and City of Los Angeles Mayor Eric Garcetti (among

others) to commemorate the 50-year anniversary of the San Fernando Earthquake on February 9, 2021. That event was the first in a series of events that will occur in 2021 leading up to the main, in-person conference at the UCLA campus in February 2022.

Subsequent events include an Energy Sector Panel Session that was held on April 6, 2021 and a Transportation Sector Panel Session on June 10, 2021. All are welcome to attend these events, featuring industry and thought leaders discussing timely challenges and opportunities in these fields. Each session also includes time for audience questions to panelists.

All events free. They are recorded and viewable on the conference website: <https://samueli.ucla.edu/lifelines2021/>. We look forward to seeing you at our online events and in-person conference in 2022!

2021 Pacific Southwest Conference Showcases Student Perseverance in the Face of Pandemic

by Sudarshan Kurwadkar, Ph.D, P.E., Vice President – Student Activities

A portrait of Tori Mok, a man with dark hair and a mustache, wearing a dark blue suit jacket, a light blue striped shirt, and a blue tie. He is smiling slightly and looking towards the right.

The 2021 Pacific Southwest Conference (PSWC) Conference was hosted by the American Society of Civil Engineers (ASCE) at the University of California Los Angeles (UCLA) from March 25 – 27, 2021. This year, eighteen universities from Arizona, California, Hawaii, and Nevada participated in the PSWC. This conference was unique in many ways. This was the first-ever PSWC to be held virtually. Tori Mok, the PSWC 2021 Chair, has to reimagine the traditional PSWC and redesign it for a virtual setting. Kudos to her effort in making the 2021 PSWC a grand success.



Figure 1: Map of Universities participated in the 2021 ASCE-PSWC at University of California Los Angeles (Source: PSWC brochure)

Like many events around the world, the ASCE-PSWC was also impacted by the global pandemic. Every year, many students in the Civil and Environmental Engineering program eagerly wait to participate in the PSWC. The excitement surrounding this conference is primarily because it has many technical and non-technical activities that students always enjoy. The thrill of competing against peers across regional schools not only offers a snapshot of student engagement but also showcases their dedication to all things civil engineering. The technical events include Concrete Canoe, EngineeringX, Environmental Design, Geowall, Surveying, Sustainability, Technical Paper, Timber-Strong Design-Build, and Transportation Design. It is also an avenue to showcase their talent in other non-technical events, including mystery events, Skribblo, Scattategories, Family-Feud, Smash, Tetris, Guess the Meme, Basketball-Horse, and Scavenger Hunt. The conference offers many avenues for building peer-relationship and getting to know fellow classmates from freshman to senior civil engineering students.

Of the 18 universities participating in the 2021 PSWC, UCLA bagged the first prize in Technical Competition and Overall (including non-technical event). While Cal Poly Pomona (CPP) and Cal Poly San Luis Obispo (CPSLO) ranked second and third, respectively. While in the non-technical category, UCLA and CPSLO maintained their respective rankings, the University of California Irvine (UCI) won second place, replacing CPP. Most universities have their fair share of strengths in the different sub-disciplines of Civil Engineering. The overall rank reflects their total performance in both technical and non-technical categories.

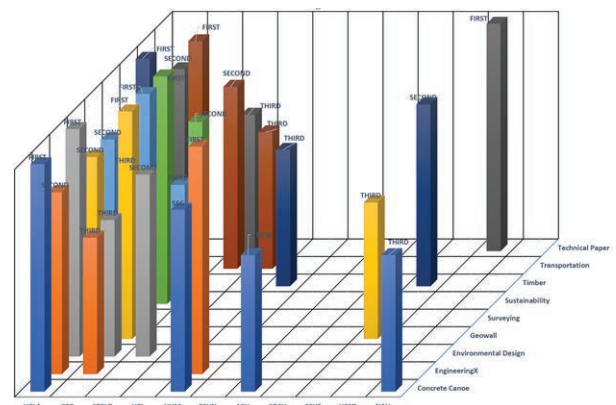


Figure 2: Performance of universities in various technical events.
Only top three universities are presented here

Despite the gloom of the global pandemic, students actively participated in various technical and non-technical competitions remotely using Zoom. Participating in the virtual PSWC, students had the opportunity to reflect on the traditional PSWC and how much they missed face-to-face interaction. The three-day fun-filled event followed by an award banquet was conducted entirely virtually. Although the virtual PSWC may not be as exciting as the traditional face-to-face PSWC. Yet, students cheered enthusiastically in support of their team members, boosting their morale, and reinforcing the sense of comradery. The success of the 2021 virtual PSWC truly demonstrates student's ability to persevere even in times of extraordinary circumstances. Their participation in the virtual PSWC shows that no pandemic can subdue their excitement for the PSWC. It will remain to be the most cherished conference for ages to come.

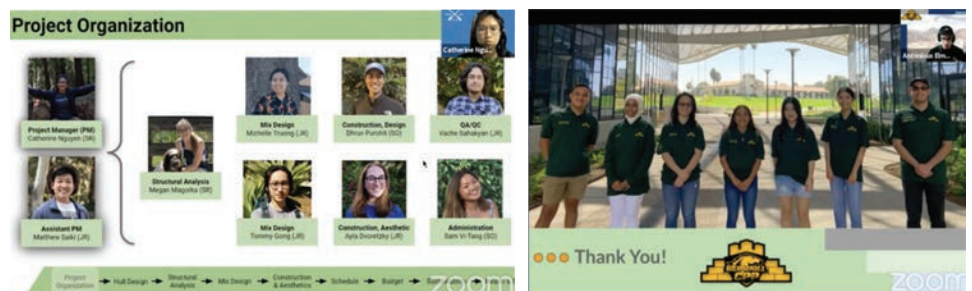
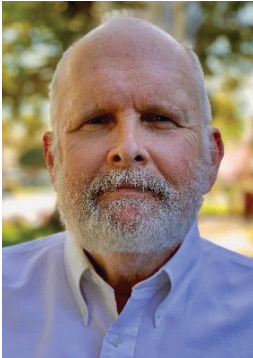


Figure 3: Concrete Canoe team from UCLA (Left) and the Geowall team from CPP making virtual presentation using Zoom during the 2021 PSWC.

State Investments and Legislative Update

by Richard Markuson, CA Region 9 Legislative Advocate



2021-22 Legislative Session – Lots of Revenue

The nonpartisan Legislative Analyst's Office (LAO) said late in April that California's budget coffers are filling so fast that the state may have to cut taxes and find creative maneuvers to direct money toward government programs in the coming years. A convergence of factors, from massive stock market gains to slow population growth, will likely trigger a rarely invoked appropriations

limit that requires California to send tax rebates and spend more money on education once revenues surpass a level tied to spending in the late 1970s. The requirement has created new headaches for California budget writers as revenues keep outpacing projections due to unforeseen economic strength among high-income earners. While the state is tens of billions of dollars ahead of where leaders thought California would be a year ago during the depths of pandemic closures, the path to spending all of that money is murky, as the Analyst's Office recently outlined. California is expected to have a budget surplus topping \$20 billion by the time Gov. Gavin Newsom releases his May budget revision next month. Also, California will see some \$26 billion in additional federal funds through 2024 from the national stimulus package approved earlier this year, though that money would not directly affect the spending limit.

The LAO says that besides tax refunds and school spending, some options for Newsom and the state Legislature include:

- Increasing spending on local governments and capital projects like housing.
- Cut taxes. However, this could trigger the federal stimulus penalty.
- Redefine what counts as an exclusion from the Gann Limit. That includes potentially reducing the amount some school districts can spend so the state can spend more on other purposes.
- Ask voters to provide a temporary increase in the Gann Limit; increase district spending limits; exempt reserve savings from the Gann Limit calculation; or overhaul the Gann Limit entirely.

Another aspect of California's growing surplus is the effect of Proposition 2. Passed by voters in 2014, Proposition 2 changed budgeting practices concerning (1) reserves and (2) debt payments. Proposition 2 made two significant constitutional changes to state budgeting. First, it created new rules for minimum annual deposits into the Budget Stabilization Account (BSA), the state's rainy-day fund. Second, Proposition 2 created new requirements that the state spends a minimum amount each year until 2030 to pay down specified debts. Under Proposition 2, the state must continue to deposit funds into the BSA until it reaches a threshold balance of 10 percent of General Fund tax revenue. Once the BSA reaches this threshold, required deposits that would bring the fund above 10 percent of General Fund taxes instead must be spent on infrastructure. (Once at the 10 percent threshold, the Legislature can continue to make optional deposits into the BSA at its discretion.)

Unfortunately, it is unlikely that this capital outlay will occur because the administration proposes lowering the optional balance withdrawal from 2020-21 from \$3.1 billion to \$1.3 billion. (This results in a

corresponding increase in the mandatory withdrawal, from \$4.7 billion to \$6.5 billion.) By reducing the optional withdrawal from the BSA, the Governor proposes increasing the optional balance and reducing the mandatory balance of the BSA. As a result, reaching the 10 percent threshold for required balances will require more deposits over time. This would delay spending on infrastructure but could increase the overall level of state reserves.

Legislation

AB 43 (Friedman) Grants Caltrans and local authorities greater flexibility in setting speed limits based on recommendations the Zero Traffic Fatality Task Force made in January 2020. ASCE position: **Watch**

AB 377 (Rivas, Robert) Requires that by January 1, 2025, the State Water Resources Control Board and the Regional Water Quality Control Boards evaluate impaired state surface waters and report to the Legislature a plan to bring all water segments into attainment by January 1, 2050. Requires, by January 1, 2023, the State Water Board and Regional Water Boards to prioritize enforcement of water quality standard violations that are causing or contributing to an exceedance of a water quality standard in a surface water of the state. ASCE position: **Disfavor**

AB 747 (Mathis) Appropriates \$20,000,000 from the General Fund to the State Water Resources Control Board to provide a grant to a joint powers authority composed of the Tule River Indian Tribe and the City of Porterville for a water treatment facility. ASCE position: **Watch**

AB 754 (Mathis) Allows the Department of Water Resources (DWR) to extend the deadline to submit a groundwater sustainability plan (GSP) by up to 180 days for an agency developing a GSP for a medium- or high-priority basin. ASCE position: **Watch**

AB 1010 (Berman) Require architects to complete five hours of continuing education training on zero net carbon design for every two-year licensing period ASCE position: **Watch**

AB 1037 (Grayson) AB 1037 requires any infrastructure project that receives state funding to deploy digital construction technologies. ASCE position: **Watch**

AB 1161 (Garcia, Eduardo) Requires the Department of Water Resources to only purchase power from projects constructed using project labor agreements. ASCE position: **Disfavor**

AB 1195 (Garcia, Cristina) Creates the Southern Los Angeles County Human Right to Water Collaboration Act. Requires the State Water Resources Control Board to appoint a Commissioner to implement the Safe and Affordable Funding for Equity and Resilience (SAFER) Program in southern Los Angeles County. ASCE position: **Watch**

AB 1329 (Nazarian) Requires the California Building Standards Commission (CBSC) to develop, adopt, and publish building standards requiring that new construction be designed and built to a functional recovery standard for earthquakes. ASCE position: **Support**

AB 1434 (Friedman) Lowers the indoor residential water use standard from 55 gallons per capita daily (gpcd) to 48 gpcd beginning January 1, 2023, from 52.5 gpcd to 44 gpcd starting January 1, 2025, and

from 50 gpcd to 40 gpcd starting January 1, 2030. ASCE position: **Disfavor**

AB 1447 (Cooley) Establishes the Rural California Infrastructure Act and the Rural California Infrastructure Fund to provide fairground maintenance, disaster preparedness, highway or street maintenance, and historic or cultural preservation projects. ASCE position: **SIA**

AB 1500 (Garcia, Eduardo) Enacts the Safe Drinking Water, Wildfire Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, and Workforce Development Act of 2022 (Act), a \$6.7 billion general obligation bonds to address the impacts of climate change, and places the Act on the November 8, 2022, general election ballot. ASCE position: **Watch**

ACA 1 (Aguiar-Curry) This measure would authorize a city, county, city and county, or special district to levy an ad valorem tax to service bonded indebtedness incurred to fund the construction, reconstruction, rehabilitation, or replacement of public infrastructure, affordable housing, or permanent supportive housing, or the acquisition or lease of real property for those purposes, if the proposition proposing that tax is approved by 55% of the voters of the city, county, or city and county, as applicable, and the proposition includes specified accountability requirements. ASCE position: **Support**

SB 45 (Portantino) This bill would enact the Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2022, which authorizes the sale of \$5.595 billion in general obligation bonds upon approval by voters at the November 2021 statewide general election. Bond funds would be used for projects related to wildfire prevention, safe drinking water, drought preparation, and flood protection. ASCE position: **Watch**

SB 83 (Allen) This bill would establish the Sea Level Rise Revolving Loan Program through the Coastal Conservancy and the IBank collaboration. ASCE position: **Watch**

SB 222 (Dodd) Would establish the Water Rate Assistance Program, with an unknown source of funding, administered by the Community Services Development Department (CSD) in consultation with the State Water Resources Control Board, to help provide water affordability assistance, for both drinking water and wastewater services, to low-income ratepayers. ASCE position: **Watch**

SB 223 (Dodd) makes numerous changes to expand provisions related to prohibiting discontinuation of residential water service due to nonpayment ASCE position: **Watch**

SB 273 (Hertzberg) Authorizes a municipal wastewater agency to acquire, construct, expand, operate, maintain, and provide facilities to manage stormwater and dry weather runoff. ASCE position: **Favor**

SB 403 (Gonzalez) Authorizes the State Water Resources Control Board to order consolidation between a receiving water system and an at-risk water system under specified circumstances ASCE position: **Watch**

SB 407 (Archuleta) Expands the definition of land surveying ASCE position: **Watch**

SB 414 (Jones) Senate Bill 414 extends when a local agency has to hear an appeal to 45 days after an appellant files a request and makes conforming changes. SB 414 also creates a different definition of "cadastral surveying" to mean a survey that creates, marks,

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defines, retraces, or reestablishes the boundaries and subdivisions of the public land of the United States, or any other field survey of a cadaster that is a public record, survey, or map of the extent and ownership of land. ASCE position: **Watch**

Reports of Interest

The **California Water Boards** released the 2021 Drinking Water Needs Assessment "Of the 2,779 public water systems evaluated in the study, nearly half are at some risk of failing to provide an adequate supply of safe drinking water. To measure the health of water systems, the researchers assessed each water system using 19 indicators for water quality, accessibility, affordability, and operational capacity. Based on those assessments, each system received an overall rating indicating how likely it would be to fail.... The researchers found 25% of water systems to be 'at risk,' while an additional 23% are 'potentially at risk.'"

Public Policy Institute of California released a policy brief on Droughts in California, finds most cities are "well-prepared for droughts," but "many small communities are vulnerable," particularly those relying on shallow wells that are sensitive to regional groundwater over-pumping," forecasts that "achieving sustainability may require permanent fallowing of more than 500,000 acres of farmland."

The Climate Center released a fact sheet along with a report titled, "Accelerating the timeline for climate action in California," findings from the fact sheet include: "Over the next ten years, California's big climate challenges – hotter summers, a shorter rain season, and more destructive wildfires – will grow in intensity by nearly 50%" and the planet will reach "a dangerous level of climate change (an average temperature increase of 2.7°F) as early as 2027 – nearly two decades earlier than initially projected."

Appointments of Interest by the Governor

As **State Architect** at the Department of General Services, Division of the State Architect: **Ida Antonelli Clair**, Elk Grove, acting in the role since 2019.

As Deputy Secretary for water at the California Natural Resources Agency: **Nancy Vogel**, Sacramento, director of the Governor's Water Portfolio Program since 2019.

To the Colorado River Basin Regional Water Quality Control Board: **Beatriz Gonzalez**, Thermal, district coordinator of Expanded Learning Programs at the Coachella Valley Unified School District since 2011; **Vivian Perez**, Holtville, center manager at Planned Parenthood of the Pacific Southwest since 2016 and faculty member at University of Phoenix since 2010.

To the Lahontan Regional Water Quality Control Board: **Essra Mostafavi**, Bishop, founder/CEO of Geode Environmental Inc. since 2017.

To the San Francisco Bay Regional Water Quality Control Board: **Donald Young**, Morgan Hill, senior vice president at Salas O'Brien since 1998.

To the Delta Stewardship Council: **Virginia Madueno**, Riverbank, managing partner at SanGuard LLC since 2020, co-owner and director of marketing communications at World Tile Design and Showroom since 2014, and president and CEO at Imagen LLC since 2003.

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ASCE Los Angeles Section Honors 2021 New Life Members and Student Scholarship Winners

by William E. Lawson, P.E., F.ASCE, LMF President



On Thursday evening, May 13, 2021, the ASCE Los Angeles Section Life Member Forum held its 20th Annual Life Member Induction Ceremony. Due to COVID-19 restrictions the event was held virtually by Zoom this year. The event was attended by LA Section Members and by Civil Engineering students from colleges and universities within the Los Angeles Section's boundaries. The total attendance for this event was approximately 46 people.

The program started promptly at 5:30 PM. Opening remarks were by ASCE Los Angeles Section President **Seema Shah-Fairbank**, Ph.D., P.E., M.ASCE, and followed by the Pledge of Allegiance to the Flag of the USA. Subsequently, William E. Lawson, P.E., F.ASCE, President of the ASCE Los Angeles Section's Life Member Forum, greeted the event attendees and spoke briefly on the importance of becoming an ASCE Life Member at age 65 and becoming active in the Life Member Forum. Becoming a voluntary member of the Life Member Forum provides ASCE Life Members with the opportunity to meet with other Life Members on a monthly basis and participate in a variety of Civil Engineering programs and projects after retirement.

The keynote speaker for the evening was ASCE National President-Elect Dennis D. Truax, Ph.D., P.E., DEE, D.WRE, F.NSPE, F.ASCE, and Life Member, and was introduced by ASCE Los Angeles Section President, Dr. Seema Shah-Fairbank. Dr. Truax Spoke on the importance of membership in ASCE and the opportunities and obligations of ASCE membership: "To remain steadfast in one's support of our Society is a clear indication of a member's professional commitment to life-long learning, steward leadership and mentorship, and support for the Code of Ethics that places the health, safety and welfare of the public first and foremost in every endeavor. In achieving Life Membership status, this symbolized a person's unwavering commitment to the profession, the Society, and the public."

Following Dr. Truax's presentation the new 2021 ASCE Life Members were introduced. This year a total of 31 ASCE Los Angeles Section Members became Life Members. Of those, thirteen (13) submitted personal information and photos for their induction into the Life Member Forum. The new Life Members attending the event were recognized individually by three past Presidents of the Los Angeles Section. **Jerry Burke**, P.E., ENV SP, M.ASCE introduced four new Life Members Nicholas J. Carpenter, Ph.D., A.M.ASCE; Stavros P. Chrysovergis, Ph.D., P.E., G.E., M.ASCE; Jan L. Edwards, P.E., M.ASCE; and Grant D. Eklund, P.E., M.ASCE. **John R. Rogers**, P.E., F.ASCE introduced William E. Elder, P.E., M.S., M.ASCE; Douglas A. Harriman, P.E., M.ASCE; Theodore V. Hromadka II, P.E., D.WRE, M.ASCE; and Bard Lower, P.E., M.ASCE. **Kenneth Rosenfield**, P.E.,

ENV SP, F.ASCE then introduced the final five new Life Members John F. Nelson, P.E., M.ASCE; Rudolf E. Ohlemutz, P.E., M.ASCE; Galen S. Petoyan, AFF.M.ASCE; John R. Price, P.E., M.ASCE; and Soroj P. Weeraratne, Ph.D., M.ASCE. A complete list of all 31 new ASCE Life Members was provided in the Program Booklet.

After the induction of new members, ASCE Region 9 representative Tapas Dutta, P.E., ENV SP, F.ASCE described Region 9 as the ninth Region of a total of nine ASCE Regions encompassing the 50 states of the United States of America. Region 9 consists of 4 Sections having roughly 18,500 members with seven ASCE members as its Board of Governors, as follows: (1) Ken Rosenfield as Director of Region 9, (2) Tapas Dutta Los Angeles Section, (3) Elias Karam Sacramento Section, (4) Jeff Cooper San Diego Section, (5) Rune Storeund San Francisco Section, (6) Christine Rice, and (7) Mojgan Hashemi as Governors-At-Large. The ASCE Board of Governors' duties consist of the formation of its sub-Region geographical areas, development and implementation of its strategic plan, gather and formulate reviews of ASCE activities to determine issues of concern, and to provide leadership and direction to ASCE's activities including serving as resources to Sections, Branches, and Student Chapters. One significant finding for California in 2019 was that the state received a Grade Point Average of "C-" on the State's Infrastructure Report Card.

The final segment of the program recognized the student winners of the 2021 ASCE Life Member Scholarships. Life Member Forum President William E. Lawson, P.E., F.ASCE presented the scholarships. An overview of each winner's scholastic and extra-curricular achievements was presented by Mr. Lawson that was followed by a brief pre-recorded video prepared by each winning student. The following three students received Scholarships in the amount of \$1,500: Olivia Clark, Cal Poly San Luis Obispo; Maryn Santiago, Cal Poly Pomona, and Andres Zazueta, University of Southern California. The winner of the grand prize, a \$2,000 scholarship, was Sidney Tran, Cal Poly San Luis Obispo. The funds for these scholarships were provided by contributions from ASCE Life Members. The names of these contributors were provided in the event program along with a big "Thank You" to them for making these scholarships possible. 2021 is the first year that the ASCE Life Member Forum has awarded scholarships.

The Life Member Induction Ceremony and Student Scholarship Awards program concluded at 7:30 PM with closing remarks by ASCE LA Section President Seema Shah-Fairbank, P.E., Ph.D., M.ASCE.

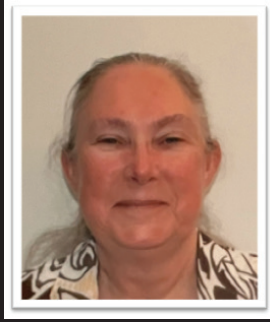
Congratulations to the 2021 Life Members



Nicholas Carpenter
Ph.D., A.M.ASCE



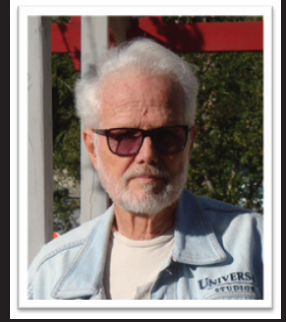
Stavros Chrysovergis
Ph.D., P.E., G.E., M.ASCE



Jan Edwards
P.E., M.ASCE



Grant Eklund
P.E., M.ASCE



William Elder
P.E., M.S., M.ASCE



Douglas Harriman
P.E., M.ASCE



Theodore Hromadka
P.E., D.WRE, M.ASCE



Bard Lower
P.E., M.ASCE



John Nelson
P.E., M.ASCE



Rudolf Ohlemutz
P.E., M.ASCE



Galen Petoyan
AFF.M.ASCE



John Price
P.E., M.ASCE



Saroj Weeraratne
Ph.D., P.E., G.E., M.ASCE

Amer Rauf Al-Alusi, P.E., M.ASCE
Ashok Narayan Apte, M.ASCE
Kou Hui Chang, P.E., M.ASCE
John Vincent Doyle, P.E., M.ASCE
Richard M. Genzel, M.ASCE
Baylor Price Gibson, III, P.E., M.ASCE
Neil James Gillis, P.E., M.ASCE
Donald Ellsworth Goggins, Jr., P.E., M.ASCE
John Ismael Ibrahimi, P.E., M.ASCE

Shoou-Jung Lin, P.E., M.ASCE
Harvey H. Liss, Ph.D., P.E., M.ASCE
Roger Alan McIntosh, P.E., L.S., M.ASCE
Guadalupe Daniel Ojeda, P.E., M.ASCE
JWilfredo Parinas Salao, P.E., M.ASCE
Elwood Anthony Smietana, M.ASCE
Barbara LaJuan Urban, P.E., M.ASCE
Rene Alexander Vermeeren, P.E., D.WRE, M.ASCE
Pai-Kang Wang, Ph.D., P.E., M.ASCE

San Diego Section Newsletter Article

Final Major Capital Improvement Project at the Miramar Water Treatment Plant, the Miramar Clearwells Improvements Reaches Completion

by Ed Matthews, PE, Principal Professional, Kleinfelder



At \$110 million, the Miramar Clearwells Improvements project has been the largest current capital improvement project for the City of San Diego since 2016. This project essentially replaces the last vestiges of the original Miramar Water Treatment Plant (WTP) – first constructed in 1959. The Miramar WTP supplies treated water to approximately 600,000 North San Diego customers.

Two finished water reservoirs within the WTP – Clearwells 1 and 2, built in 1959 and 1974, respectively – each at the end of their service life, required replacement with new clearwells designed for modern seismic codes. This project provided advanced flexibility in operation, maintenance, and disinfection, culminating in the WTP's ultimate capacity of 215 million gallons per day (MGD) and enhancing its ability to respond to changing water quality conditions with full redundancy and reliability for its customers.

As the prime consultant, Kleinfelder provided engineering management, design, and construction support services, mobilizing talent from across the U.S. The addition of a 215 MGD pump station required physical modeling in accordance with Hydraulic Institute standards, and the resulting design was custom-engineered for providing the necessary hydraulic grade line through the Miramar WTP for current and future maximum flows.

The Miramar Clearwells Improvement project included:

- Replacing Clearwells 1 and 2 with two new, seismically designed, 29.5 million gallon (MG) clearwells (59 MG total storage capacity)
- New instrumentation, analyzer panels for chemical addition, level control, and four dedicated flowmeters
- Dual-train chlorine contact chamber with new chemical gallery for flow-paced dosing of ammonia, caustic soda, and fluoride, with two dedicated 72-inch-diameter flowmeters
- 215 MGD low-lift pump station, including a 1:8 scale physical model
- New 6,000-square-foot (SF) maintenance facility
- New guard house and state-of-the-art security system
- Electrical building
- 1 megawatt (MW) photovoltaic solar system
- New landscaping
- Improvements to the Miramar Pipeline and Miramar 2A Pipeline
- Replacement and re-routing of chemical piping systems for operator safety

As part of the design, and to support community outreach efforts, Kleinfelder rendered construction and modeled the interim milestones (Maintenance of Plant Operations) and finished facilities using our state-of-the-art 3D Building Information Modeling (BIM), which provided vital information to the designers, the contractor, and the community regarding the essential planned improvements.

The design team (IEC, Arcadis, Ross Engineering Group, Marum Partnership, Allied Geotechnical Engineers, Martin & Libby) was maintained through the nearly five years of construction, and substantial agency coordination was also required.

The project met all major milestones on schedule and completed the last stages of startup in January 2021 – all with zero unplanned outages of service to over 600,000 customers in Northern San Diego.

The project received the American Public Works Association (APWA) San Diego and Imperial Counties Chapter Public Works Project of the Year Award (Utilities Category) in May 2021 and will ensure the safe delivery of clean potable water for decades to City residents.



Miramar Clearwell Improvements – January 2021



www.ascelasection.org

ASCE Honor Its 2021 Distinguished Members

ASCE has recognized its newest class of Distinguished Members, a status reserved for the most eminent civil engineers in the Society. The 2021 honorees:

Lilia A. Abron, Ph.D., P.E., BCEE, NAE, Dist.M.ASCE, for advanced environmental engineering and sustainable design through work in both academia and the private sector.

Gregory B. Baecher, Ph.D., Dist.M.ASCE, for developing and implementing probabilistic and risk-based approaches to geotechnical and water resources engineering.

Roberto Ballarini, Ph.D., P.E., F.EMI, Dist.M.ASCE, for advancing fracture mechanics-based design of concrete structures and pioneering of structural and material testing at micrometer and nanometer scales.

Glenn R. Bell, P.E., S.E., F.SEI, Dist.M.ASCE, for technical excellence in structural design, building envelope systems, and earthquake engineering, as well as building the practice of forensic engineering.

John D. Hooper, P.E., S.E., NAC, F.SEI, Dist.M.ASCE, for his eminence in advancing the seismic design provisions of building codes as well as furthering performance-based seismic design.

Joe D. Manous Jr., Ph.D., P.E., D.WRE, F.EWRI, Dist.M.ASCE, for leadership in water resources management and engineering ethics and scholarship.

Julio A. Ramirez, Ph.D., P.E., Dist.M.ASCE, for leadership in worldwide data collection, research, and education to enhance resilience of civil infrastructure and communities against natural hazards.

Lucio Soibelman, Ph.D., P.Eng, NAC, Dist.M.ASCE, for outstanding contributions to the construction industry through pioneering data analytics research that enhances capital project construction and operations performance.

Kelvin C.P. Wang, Ph.D., P.E., Dist.M.ASCE, for outstanding contributions to transportation engineering education and research, including innovative research on automated pavement survey and data analysis methods.

More on each of the Distinguished Member's career here (<https://source.asce.org/tag/distinguished-members/>).

CALL FOR COMMITTEE MEMBERS

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Sam Potts - saml.potts@yahoo.com

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Contact Seema Shah-Fairbank if interested - shahfairbank@cpp.edu





DATE: June 3, 2021

TO: ASCE Board of Direction
ASCE Presidents-Emeriti
ASCE Section and Branch Presidents, Secretaries, Newsletter Editors
ASCE Geographic and Technical Region Boards

FROM: Thomas W. Smith III, P.E., ENV SP, CAE, F.ASCE
Society Secretary

SUBJECT: 2021 National Election

The 2021 national election concluded on Tuesday, June 1, and the Tellers Committee convened this morning to validate the election results. Consistent with the Society's Bylaws, I am writing to give you formal notification of the results of this year's election which includes the following newly elected ASCE leaders and results of the constitutional amendment vote.

President-elect Elect:

Maria C. Lehman, P.E., ENV SP, F.ASCE

Region Directors-Elect:


Region 3: *Kenneth R. Mika, P.E., M.ASCE*
Region 4: *Findlay G. Edwards, Ph.D., P.E., D.WRE, BCEE, F.ASCE*
Region 8: *Lawrence M. Magura, P.E., D.WRE(ret), F.ASCE*
Technical Region: *Daniel F. Becker, M.ASCE*

Region Governors-Elect:

Region 1: *Craig F. Ruyle, P.E., M.ASCE*
Beth Ann Smith, P.E., BCEE, M.ASCE
Region 2: *Patrick J. Sullivan, Jr., P.E., M.ASCE*
Region 3: *Jesse D. Jefferson, P.E., PTOE, M.ASCE*
Region 4: *Colette Easter, P.E., M.ASCE*
Maneesh Krishnan, P.E., M.ASCE
Region 5: *Robert L. Jackson, P.E., M.ASCE*
Bradley M. Williams, P.E., M.ASCE
Region 6: *Sonya Leigh Cooper, Ph.D., P.E., M.ASCE*
Lawrence D. Goldberg, P.E., ENV SP, F.ASCE
Region 7: *Molly K. Bennett, A.M.ASCE*
Jennifer Jacka-Taylor, P.E., ENV SP, M.ASCE
Region 8: *Virginia J. Groeschel, A.M.ASCE*
Robert B. Turner, P.E., F.ASCE
Region 9: *Patricia "Tricia" McColl, P.E., M.ASCE*
Region 10: *Kamal Laksiri, Ph.D., P.E., F.ASCE*
Saliu A. Lawal, C.Eng, M.ASCE


By a vote of 66.5% in favor and 33.5% against, the membership also defeated the proposed constitutional amendment intended to allow Student Members the right to vote. Amendments to the constitution require the affirmative vote of two-thirds (2/3) of those members voting.

If you have questions regarding the election results, please contact Patty Montgomery, Managing Director of Executive and Board Operations, at 703/295-6101 or pmontgomery@asce.org.



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Reminder:

Copy deadline for the July 2021 issue is June 1, 2021; copy deadline for the August 2021 issue is July 1, 2021.

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ASCE Los Angeles Section Officer's Roster: 2020-2021

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