Dear OCEC Officers, Delegates, Sponsors, and interested Readers:

Welcome to our 2nd Quarter newsletter, which highlights the OCEC Annual Honors and Awards Banquet, and many other articles from our Officers and Board members.

The Orange County Engineering Council (OCEC) has celebrated Engineers Week for years with our Honors and Awards Banquet. We recognize the best of the best engineers, scientists, educators, students, and projects from engineering and scientific corporations, professional societies, educational institutions, governmental agencies, STEM Program affiliates and individuals dedicated to serve the engineering profession, in and around Orange County. This year, the awards banquet was held at the Double Tree by Hilton, 201 East MacArthur Blvd., Santa Ana, CA 92707. At this event, we presented more than 50 awards to outstanding individuals, as well as projects. The meeting was attended by about 150 people, including award recipients, their families, sponsors, students and other professionals. All the award summaries are published in the OCEC Awards Booklet, which was distributed at the Awards Banquet.

Following are the top award winners: **James E. Ballinger Engineer of the Year Award**: Dr. Iraj Ershaghi, Omar B. Milligan Chair in Petroleum Engineering and Professor of Chemical Engineering and Material Science, University of Southern California (USC).

**Project of the Year Award**: Cassini-Huygens Mission to Saturn, NASA Jet Propulsion Laboratory, Pasadena, California.

**OCEC President’s Award**: Dr. Ayman S. Mosallam, P.E., F. ASCE; Professor of Civil & Environmental Engineering, and Materials & Manufacturing Engineering Technology, University of California, Irvine (UCI).

The keynote speaker at the Awards Banquet was Mr. Sabri Sansoy, CEO & Roboticist, Orchanic. His presentation was on: “Artificial Intelligence Today – Where is Rosie The Robot?” His company, Orchanic, has built autonomous robots and helped IBM’s Watson.

*continued on next page*
His work on Environmental Robotics was recognized in local and global media.

The current annual awards program is a result of many hours of volunteer work by the OCEC Executive Committee members, Board of Directors, and individual members. Thank you all for your dedicated effort. I offer my special thanks to Mr. Dhananjay Kulkarni, VP of Engineering, for spearheading the entire Honors and Awards program, and organizing this gala event. We are grateful to the sponsors and member organizations for their generous contributions and making this awards event a memorable one.

Dr. Iraj Ershaghi, the 2018 James E. Ballinger Engineer of the Year (center), with OCEC Board members (left to right) Robert Martinez, Dhananjay Kulkarni, Dr. Steve Cheung, Dr. C.T. Bathala, and Dr. Sam Sarem.
Message from the President, continued...

As the 2017-2018 fiscal year comes to an end, we are seeking nominations for candidates for the subsequent fiscal years. The open positions for FY 2018-2020 are: VP-Engineering, VP-Corporate Members, VP-Communications, and Treasurer. The open position for FY: 2018-2019 is VP-Governmental Agencies. I am pleased to inform that Dr. Sam Sarem (Senior Past President and Executive Director) and Dr. Steve Cheung (Past President) have consented to serve as co-chairs of the Nominations Committee. Thank you, Sam and Steve, for your acceptance. The required qualifications for the open positions, the nomination deadline, and election date are detailed in the attached Nominations Request Form and the Nominee Application Form. Kindly submit your nominations (including self-nominations), so we can elect the most qualified candidates for the above positions.

We are grateful to the sponsors and member organizations for their generous contributions and making this awards event a memorable one. We are open to suggestions from all of you and always strive to implement programs that would directly benefit you. Kindly visit OCEC website: www.ocec.org, for additional information. Thank you all.

C.T. Bathala, Ph.D., P.E., F.ASCE
OCEC President (2017-2019)
Orange County Engineering Council

CALL FOR CANDIDATES

OCEC is a non-profit organization operated exclusively for charitable purposes, including furtherance of education, engineering and scientific endeavors, and other exempt purposes. It is an umbrella organization for professional engineering and scientific societies, engineering and scientific businesses, educational institutions, governmental agencies and individuals located in or near Orange County, California. These entities have a common mission to enhance the public image of the students, engineers and scientists, and to promote the principles and advancement of engineering and science within and around Orange County.

We are looking for suitable candidates to fill the following positions. Any person can apply and self-nomination is acceptable. The nomination deadline is May 20, 2018 and the election will take place on June 8, 2018.

If you have questions, please contact Nomination Committee co-chairs: Dr. Sam Sarem (Sam4IPRC@aol.com) or Dr. Steve Cheung (steveior@yahoo.com). Current Officers can reapply for the same position, if they have not served on the specific position for the last four years.

Officers are required to attend all the Executive Committee meetings or send a Proxy if he/she can’t attend a meeting. The Officers are required to be an OCEC member either representing a member organization or as an individual member during their term as officer.

OPEN POSITIONS FOR JULY 1, 2018- JUNE 30, 2020 TERM

1. **Vice President-Engineering**

The VP-Engineering shall be responsible for planning and administration of the Engineers’ Week activities. This Officer shall serve as the Engineers’ Week Chairman, and be responsible for seeking nominations from the OCEC member organizations and Members-at-Large for suitable awards to be presented at the Engineers’ Week Honors and Awards Banquet. He/She shall formulate a Selection Committee for reviewing the nominations and selection of candidates and projects for suitable awards.

The VP-Engineering shall investigate a suitable venue, date and menu for the Awards Banquet, prepare Banquet related plans and budget requirements and recommend various options for review and approval by the Executive Committee. He/She shall formulate an Engineers’ Week Committee to assist him/her in the execution of various Awards Banquet related activities.

The VP-Engineering shall be the Master of Ceremonies for the Engineer’s Week Awards Banquet. Alternatively, he/she may designate another person, subject to approval by the Executive Committee.

After the conclusion of the Banquet, the VP-Engineering shall present a report to the OCEC Board summarizing the outcome of the Banquet and recommendations for future Engineers’ Week activities.

In case of absence of both the President and President-Elect, the VP-Engineering shall perform the duties of the office of the President. If a President-Elect position has not been filled, the VP-Engineering shall hold both positions of President-Elect and VP-Engineering.

2. **Vice President-Corporate Members**

The VP-Corporate Members shall be responsible for the coordination of activities with the corporate members. This coordination includes the continuous updating of the OCEC records with the latest contact list for engineering and related scientific corporations, their designated delegates and alternates.
The VP-Corporate Members shall encourage attendance of the corporate delegates at the OCEC meetings, and promote their active participation and support of the OCEC activities.

The VP-Corporate Members shall be responsible for the solicitation of contributions from the corporations in and around Orange County and for coordination with the VP-Engineering for seeking nominations for suitable awards to be presented at the Engineers’ Week Awards Banquet.

1. **Vice President-Communications**

The VP-Communications is responsible for managing the publicity activities for the OCEC. The publicity activities may include, but are not limited to, operation of the OCEC website, publication of a newsletter and the mailing of information bulletins, as well as publicity in the local newspapers and member website links.

The VP-Communications shall be responsible for implementation, maintenance and updating of the OCEC website. He/She shall ensure that all the news related to the OCEC activities are promptly posted on the OCEC website and are published in a timely manner in the OCEC newsletter.

2. **Treasurer**

The Treasurer shall have custody of all moneys belonging to the OCEC. He/She shall keep said funds in a conventional bank or a savings and loan institution. An annual financial report shall be prepared by the Treasurer for submission at the September Board meeting.

The Treasurer is responsible for all OCEC financial obligations, including but not limited to, income tax, invoices, insurance, web-site and refunds. He/She is also responsible to reimburse for the approved expenses incurred by the members upon submittal of valid receipts, and also provide copies of receipts on a timely manner upon request. The Treasurer shall submit on-time all necessary paperwork for OCEC to maintain legal status, such as Statement of Information, income tax returns, etc. The Treasurer shall report the status and detailed contact information of the new members to the Executive Committee every month.

The dispensing of funds for non-budgeted items of the OCEC shall be at the direction of the Executive Committee. The Treasurer shall be empowered to give blanket approval for all budgeted items to be paid, without individual item approval, when payment is due.

The Treasurer in concert with the President shall prepare an annual budget and present it to the Executive Committee for review and approval at the June Board meeting. He/she shall also present a monthly financial report at each OCEC Board meeting.

The President and President-Elect shall have access to all financial data managed by the Treasurer.

**OPEN POSITION FOR JULY 1, 2018 – JUNE 30, 2019 TERM**

3. **Vice President-Governmental Agencies**

The VP-Governmental Agencies shall be responsible for the coordination of activities with the governmental agencies in and around Orange County. This coordination includes the continuous updating of the OCEC records with the latest contact list of governmental agencies, their designated delegates and alternates.

The VP-Governmental Agencies shall encourage attendance of the agencies’ delegates at the OCEC meetings, and promote their active participation and support of the OCEC activities. The VP-Governmental Agencies shall be responsible for the solicitation of memberships from the governmental agencies and for coordination with the VP-Engineering for seeking nominations for suitable awards at the Engineers’ Week Awards Ceremony.
OCEC Officer Candidate Form

Please complete and submit to Steve Cheung (Steveior@yahoo.com), Election Committee Co-chair, on or before Sunday, **May 20, 2018**. The candidate information will be sent to the Board of Directors for voting purposes.

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<thead>
<tr>
<th>OCEC position applying for:</th>
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<tbody>
<tr>
<td>First Name</td>
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<td>Last Name</td>
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<td>Professional Organizations</td>
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<td>Current Employer</td>
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<td>Phone Number</td>
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<td>Email Address</td>
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<td>Name of nominator, if any</td>
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1. **PLEASE BRIEFLY EXPLAIN YOUR MAIN OBJECTIVE OF APPLYING FOR THIS POSITION.**

2. **LIST YOUR PAST VOLUNTEERING POSITIONS AND ACCOMPLISHMENTS WITH ANY PROFESSIONAL ORGANIZATIONS.**

3. **ADDITIONAL INFORMATION THAT YOU WOULD LIKE TO PROVIDE** (optional).

4. **ATTACH A BRIEF CV OR RESUME** (optional).
Message from the Executive Director

by Sam Sarem, Ph.D., OCEC Executive Director

Our signature event of the year, the OCEC Honors and Awards Banquet, once again was a success, thanks to the efforts of Dhananjay Kulkarni, OCEC Vice President of Engineering, Dr. C.T. Bathala, OCEC President, and the OCEC Banquet Committee. Dhananjay served with distinction as the event chair and master of ceremonies. Matt Ulukaya, representing the OCEC Advisory Board, attended the Banquet, and later gave a very meaningful evaluation of the Banquet to the Executive Committee. Thanks to all who helped make the evening a success!

In other news, Dr. Steve Cheung, immediate Past President, and I are working to solicit nominations of new officers for several vacancies in the OCEC Executive Committee. Eva Cheung, daughter of Steve Cheung, was voted to fill the Vice President of Governmental Agencies position on an interim basis until this summer.

Tribute to George W. Westrom, 1922-2018, an Outstanding Leader of OCEC

George Benjamin Westrom, a computer scientist and engineer in the Southern California aerospace community, a college professor, and a founder of successful programs that promote STEM to students and practitioners, passed away on February 23, 2018, in Prescott, Arizona. George was a Fellow of the Institute for the Advancement of Engineering and active member of the IEEE Computer Society, SPIE, AAAI, American Society of Engineering Education, National Science Teachers Association, and the Orange County Engineering Council.

George started his career as an engineer at North American Aviation in California, working on the inertial guidance systems for the Navaho cruise missile. He later moved to Hawaii to teach math, physics, and chemistry at Jackson College. In 1958, he joined Ford Aerospace in Newport Beach, where he developed and led computer science programs in Astrodynamics. George moved to Odetics in Anaheim in 1983 to manage Advanced Computing and Artificial Intelligence programs, supporting projects for robotics in space and directing advanced systems development for the company.

George founded the Future Scientists and Engineers of America (FSEA), the legacy of which reaches thousands of students every year as part of the Discovery Science Center program, which includes two of George’s favorite inventions: the annual Rocket Launch with Boeing, and the annual Pumpkin Launch with California State University Fullerton. George also founded the IEEE International Parallel & Distributed Processing Symposium, considered the premier forum for engineers and scientists from around the world to present their latest research findings in the areas of advanced computing.

OCEC thanks the Orange County Register for permission to use excerpts from the full obituary that was printed on March 23, 2018. A memorial celebration is planned for May 12 in Irvine.
OCEC’s Newest Board Member

Eva Yu Cheung, PE
Vice President of Governmental Agencies

Eva is a sustainability engineer with experience in energy, structural engineering, and industrial wastewater and stormwater pollution prevention. She holds a bachelor’s degree in civil engineering from UCLA, where she was an officer in the student chapters of American Society of Civil Engineers (ASCE) and Chi Epsilon (XE). She was also a founding chapter president of the Future Scientists and Engineers of America (FSEA). She currently is also a member of USGBC, SEAOC, ASCE, and SWE.

OCEC Volunteers at OC Science and Engineering Fair

By Dhanajay Kulkarni, OCEC VP-Engineering

The Orange County Engineering Council (OCEC) once again this year participated in the Orange County Science and Engineering Fair (OCSEF) by judging exhibits, and selecting projects that present exceptional techniques in Science, Engineering, and Technology. OCEC is currently evaluating this year’s winners from a pool of very good candidates consisting of students from many public and private schools within Orange County. OCEC is proud of the efforts and presentations by these students, and wishes them success in their future endeavors. OCEC will present special awards to student projects at the OCEC Board meeting in May. Winners will be featured in OCEC’s 3rd Quarter Newsletter.
Editor’s Corner
by Brad Dybel, OCEC Newsletter Editor

OCEC’s second quarter began and ended with bursts of activity. It started with our signature event, the OCEC Annual Awards Banquet, as described herein the President's Message, and ended with no fewer than three significant engineering events in just the last full week of April. First, OCEC Board members sharpened their communication skills at a leadership workshop at the regional conference of the Society of Petroleum Engineers. Second, Jolene Cordon, the OCEC Vice President of Educational Partners and Vice President of the Society of Women Engineers - Orange County, led a full-day Orange County Professional Development Conference for SWE. Third, I led the presentation on pavement engineering at the American Society of Civil Engineers (ASCE) Orange County Branch's Civil Engineering Day at Castille Elementary School.

Looking forward to the next quarter, young engineers have numerous opportunities for professional development. First, ASME invites early career engineers to participate in “FutureME,” a program designed to help young engineers network and grow professionally. Second, the Society of American Military Engineers (SAME) welcomes all young professional scientists and engineers to volunteer as mentors to high school students at SAME’s STEM Camps. SAME also invites everyone to participate in its centennial celebration program known as “Run to 2020 and Beyond.” Third, young, ambitious engineers and scientists who are, or become, members of ASCE have an incredible opportunity for leadership development - ASCE Younger Member Leadership Symposium (YMLS). Elizabeth Ruedas, ASCE Committee on Younger Members (CYM) Programs Chair and ASCE Orange County Branch President-Elect, recently wrote "PIE and Planning: Essential Ingredients for Career Success," a preview of just a portion of the curriculum at the August, 2018 event. For information, please visit: https://www.asce.org/event/2018/younger-member-leadership-symposium/.

OCEC welcomes any and all comments about the articles in the OCEC newsletter. Please feel free to pass along information to OCEC about issues and events related to engineering in and around Orange County.
ASME FutureME Social Meetups

The American Society of Mechanical Engineers (ASME) FutureME Social Meetups offer early career engineers the opportunity to meet new people, join a community of like-minded engineers and professionals (online and face-to-face), and learn from experts in the engineering field.

ASME - Orange County Section FutureME Social Meetup

Date: Thursday, May 24, 2018

Time 5:30PM - 8:30PM

Location: Net Zero Plus Building/Electrical Training Institute, 6023 S. Garfield Avenue, City of Commerce, California 90040

Cost: $10 per person

Events feature guest presenters focused on career development or technical topics that would be of interest to young professionals. Participants will have a chance to meet others that have similar interests, make new connections, and gain knowledge about opportunities that are available for professional growth and understanding.

Participants will also have the rare opportunity to practice networking skills, give a personal elevator pitch, and win prizes (must be present to win)!

Food/Snacks and refreshments will be provided. Business cards are essential for networking professionally!

https://community.asme.org/futureme/w/wiki/12463.social-meetups.aspx

For details or questions, please contact Mr. Simon Pun at simonpun.uci@gmail.com.
ASCEOC Names OCEC Secretary “Outstanding Civil Engineer”
Recognized for Student Outreach Activities

The Orange County Branch of the American Society of Civil Engineers (ASCEOC) named Brad Dybel the "Outstanding Civil Engineer in Community Service" at its annual awards banquet in Santa Ana, CA on February 17, 2018. Dybel, currently serving as Secretary of the Orange County Engineering Council (OCEC), has organized and led numerous events from 2016 to 2018 to promote the civil engineering profession to students at diverse schools ranging from a middle school and a high school near downtown Los Angeles to the ASCE student chapter at California State University, Sacramento. He raised funds at the Society of American Military Engineers to send the entire student body of Grace Hopper STEM Academy to a viewing of ASCE’s motion picture “Dream Big: Engineering Our World” at a giant screen IMAX theater. He also participated as a volunteer in student outreach events led by the ASCE UCLA Student Chapter and the K-12 Outreach Committees at both the Orange County and the Metro Los Angeles branches of ASCE.

"The Orange County Branch congratulates Brad for his efforts to promote civil engineering to students."
- Jeff Braun, President of ASCEOC (right).
Local Engineers Active at Regional Petroleum Meeting

The Society of Petroleum Engineers (SPE) held its 2018 Western Regional Meeting in April, 2018 in Garden Grove, California. SPEI President, Dr. Sami Al-Nuaim, flew in from Saudi Arabia to present awards to three Los Angeles Section members.

Mr. Brian Tran of Element Materials Technology won the Regional Health, Safety, Security, Environment, and Social Responsibility Award.

Dr. Donald Paul of USC won the Regional Drilling Engineering Award.

Mr. Francois Florence of Southern California Gas won the Regional Service Award.

Five OCEC Board members participated in the SPE leadership workshop titled “Everyone Can Be a Leader: How to Influence, with or without Authority.”

From left,

Dr. Steve Cheung,
Shirley Tseng,
Brad Dybel,
Dwyann Dalrymple (Presenter),
Lori Dalrymple (Presenter),
Eva Cheung,
Dhananjay Kulkarni.
SAME Holds STEM Camp in CA

The Society of American Military Engineers (SAME) held an educational and fun-filled STEM camp for 50 teenage prospective engineers and scientists on the weekend of April 6-8, 2018 at the Marine Corps Air Ground Command Center in Twentynine Palms, CA. SAME-National, along with the Los Angeles, San Diego, Orange County, and Inland Empire regional Posts, organized and hosted the camp. Several SAME members from the Orange County Post, including Jim Carter, Michael Nosbisch, and Ed Rogan, were on-site leaders of the multi-day event, which included engineering and construction activities, such as concrete beam construction. Noah B., an Orange County high school student who attended both the 29 Palms Camp and SAME's summer camp at the US Air Force Academy remarked, "I was impressed that we did many of the same types of events done at the USAFA camp - in less than half the time... I'd also like to try SAME camps with the Navy and at the Coast Guard Academy."

Log on to www.same.org/STEMCAMPS for more information about SAME’s camps, and www.sameoc.org to get involved with the SAME Orange County Post.
OCEC - Calendar of Events

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<tr>
<th>Date</th>
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<tr>
<td>May 10, 2018</td>
<td>Board meeting, AECOM Office</td>
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<tr>
<td>June 7, 2018</td>
<td>Board meeting, AECOM Office</td>
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<tr>
<td>June 10, 2018</td>
<td>Conclusion of OCEC Elections</td>
</tr>
<tr>
<td>June 28, 2018</td>
<td>Annual meeting, AECOM Office</td>
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<tr>
<td>August 2, 2018</td>
<td>Board meeting, AECOM Office</td>
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Board meetings begin at 6:00 pm with networking session.

OCEC NEWSLETTER REVIEW COMMITTEE

Brad Dybel, chair
CT Bathala
Amir Gohardani
Steve Cheung
Robert Martinez
Dhananjay Kulkarni
Sam Sarem

Web-site: ocec.org

Linkedin Group: https://www.linkedin.com/groups/7025309

OCEC Newsletter is compiled and published by the Orange County Engineering Council for the benefit of member societies, educational partners, corporations and individual members.