



# DIMENSIONS

A PUBLICATION OF THE  
STRUCTURAL ENGINEERS  
ASSOCIATION OF  
CENTRAL CALIFORNIA

March 2019  
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## A Message from the Editor

Much of the heart of the Structural Engineers Association of Central California (SEA OCC) occurs through the efforts of its volunteers in the numerous committees.

If you are contemplating getting involved in SEA OCC, there are plenty of opportunities to join in. This month's edition of *Dimensions* presents only a sampling of recent activity. If distance is preventing you from attending a committee meeting, several committees regularly meet through teleconferences and others supplement their physical meetings with an open teleconference line per request as well.

Here's a highlight of current committee activities:

- Continuing Education: Hosted a well-attend seminar this month and is starting to plan the next seminar. See Page Five for more information.
- Drone Club: SEA OCC's newest club has set its goals and purpose. See Page Three for more.
- Existing Buildings: Embarking on updating SEAOC's Commentary on the California Existing Building Code (CEBC).
- Golf Tournament: Save the Date for Thursday, June 6, 2019, at Teal Bend.
- Membership: Focusing on creating a welcoming environment for new members and will be looking into different aspects of membership.
- Social Media: Keeping SEA OCC's Facebook page up-to-date.

If any of the above interests you, be sure to reach out to the Committee Chairs listed on Page 12 for more information on getting involved. Even committees not mentioned above are welcoming to members.

Do you know that anyone who would like to contribute to the SEA OCC Newsletter? It can be as simple as forwarding an interesting news article related to the industry or penning a report of a recent SEA OCC event. Please email me at [rachell@cyseng.com](mailto:rachell@cyseng.com) if you would like to contribute or have any suggestions.

Best,  
*Rachel Leung, P.E.*  
SEA OCC Newsletter Editor

### Inside this Issue

Editor's Message	1
Calendar	2
Committee Reports	3
In the News	6
Save the Date	8
NCSEA News	9
Membership	10
Job Forum	11
Board & Committees	12

### SEA OCC At-A-Glance

South District Happy Hour	March 5
Membership Meeting Career Fair & Student Night	March 12
SEA OCC Board Meeting	March 12
2019 SEAOC Convention Technical Committee	March 26
Snow Load Committee	March 27
Drone Club	March 28
North District Social	April 2
Existing Buildings Committee	April 2

### \*Mark Your Calendar\*

SEA OCC Membership Meetings  
Second Tuesday of the Month  
September-June

SEA OCC Golf Tournament  
June 6, 2019—Teal Bend

2019 SEAOC Convention  
August 28-30, 2019  
Resort at Squaw Creek  
(Lake Tahoe)

## MARCH 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

## APRIL 2019

Su	Mo	Tue	We	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

- 03/05 **SEAOC South District Happy Hour**  
Contact [Doug Mayer](#), South District Board Director
- 03/06 **SEAOC Existing Buildings Committee Meeting**  
5:45 p.m.  
Buehler Engineering, Inc., 600 Q St #200, Sacramento, CA 95811  
Contact [Eric Fuller](#), SEAOC EBC Chair
- 03/07 **SEAOC Code Update Seminar**  
8:15 a.m.—3:30 p.m.  
City of West Sacramento, Community Center, 1075 West Capitol Avenue, West Sacramento, CA 95691  
Register [Sacramento](#), [Redding](#), [Reno](#), or [Fresno](#)
- 03/12 **SEAOC Board of Directors Meeting**  
3:30-5:30 p.m.  
OSHPD, 2020 West El Camino Avenue, Sacramento, 95833  
Contact [Ali Sumer](#), SEAOC President
- 03/12 **SEAOC Student Night**  
5:30 p.m. Social, 6:30 p.m. Dinner, 7:30 p.m. Presentation  
Teal Bend Golf Course, 7200 Garden Hwy, Sacramento, CA 95837
- 03/20 **SEAOC Newsletter Deadline**
- 03/26 **2019 SEAOC Convention Technical Committee**  
4:00-6:00 p.m. Abstract Final Review  
OSHPD, 2020 West El Camino Avenue, Sacramento, 95833  
Contact [John Weninger](#), 2019 SEAOC Technical Committee Chair
- 03/27 **SEAOC Snow Load Mapping Project Meeting**  
4:00 p.m., GoToMeeting  
Contact [John Corless](#), SEAOC Snow Project Chair
- 03/28 **SEAOC Drone Club**  
5:00 p.m. – 7 :00 p.m.  
OSHPD, 2020 West El Camino Avenue, Sacramento, 95833  
Contact [Jerry Yee](#), Drone Club Chair
- 04/02 **SEAOC North District Social**  
Contact [Jeremy Kellogg](#), North District Board Director
- 04/02 **SEAOC Existing Buildings Committee Meeting**  
5:45 p.m. Buehler Engineering, Inc.  
600 Q Suite 200, Sacramento, CA 95811  
Contact [Eric Fuller](#), SEAOC EBC Chair
- 04/09 **SEAOC Board of Directors Meeting**  
3:30-5:30 p.m.  
OSHPD, 2020 West El Camino Avenue, Sacramento, 95833  
Contact [Ali Sumer](#), SEAOC President
- 04/09 **SEAOC Membership Dinner Meeting**  
“Selection of Concrete Floor Systems for Vibrations”  
Mike Mota, Ph.D., P.E., CRSI  
5:30 p.m. Social, 6:30 p.m. Dinner, 7:30 p.m. Presentation  
Iron Grill, 2422 13th Street, Sacramento, CA 95818

### SEAOC Dimensions

Please submit articles of information to the membership.

#### SEAOC Newsletter Editor

Rachel Leung, [rachell@cyseng.com](mailto:rachell@cyseng.com) 916-920-2020

#### SEAOC Executive Secretary

Lori Campbell, [seaocc@seaocc.org](mailto:seaocc@seaocc.org) 916-572-3177

### Newsletter Deadlines

April	March 20, 2019
May	April 22, 2019
June	May 22, 2019
Special Edition	June 19, 2019

## 1ST MEETING UPDATE

*By Jerry Yee, SEAOC Drone Club Chair*

SEAOC's maiden drone club meeting took off to new heights. Contacts were made amongst governmental offices, and industry alike. OSHPD, Norm Scheel Structural Engineers, Cal OES, and Private Drone enthusiasts were represented to share ideas and display equipment in this rapidly ascending technology. The club's purpose and rules were established. Most important is the vision of having private/government cooperative teams of FAA/SAP certified sUAS pilots that can be called upon for disaster response, infrastructure assessments, construction inspections, search and rescue, and applications yet to be discovered. Displayed equipment covered the spectrum from hobby grade multirotor and tailless wings to a professional grade Yuneec H520.

Much discussion has taken place, but I wanted to highlight the following items:

- \* Efforts to hold the 1st ever SEAOC Drone race at the upcoming convention is underway. We are attempting to secure the large parking lot at the ski resort for the proposed race course.
- \* In order to function as a 'Drone Club', we will need a field. Suggestions were made, and efforts are underway to access a field for flying. Ione was mentioned, and possibly the Sacramento Raceway.
- \* Future meetings will be on a monthly basis, next meeting: March 28th from 5pm to 7 @ 9th floor of OSHPD office: 2020 West El Camino Avenue Sacramento 95833



Clockwise from Front: Ali Sumer (OSHPD), Jerry Yee (OSHPD), Rob Coon (NSSE), Don Manzano (Drone enthusiast), Check Andrist (Drone enthusiast), Ted Johnson (Cal OES), Ron Hooks (Cal OES), Norm (NSSE), Jesse Auld (Cal OES), Mohamed Abdelaziz (NSSE).



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## SEAOCC/SEAONC YMF SKI TRIP 2019

By Matt Quan, SEAOCC YMF Chair

This year SEAOCC and SEAONC YMF cohosted our ski trip on the weekend of February 23rd up in South Lake Tahoe. The group arrived at our Airbnb rental cabin in South Lake late Friday night for an evening of games and laughs in preparation for a great day of snow sports on Saturday morning. We left for Kirkwood Mountain Resort bright and early Saturday with high anticipation for the awesome weather conditions and snow cover that was predicted to occur. Though we hit a couple snags with some car troubles, everyone was able to make it to the ski resort in one piece. The mountain did not disappoint; there was plenty of good snow and we were able to do runs for essentially the whole day until our legs called it quits. After leaving the resort, we ended up back at the cabin for some nice R&R and well deserved showers before heading out to an “eventful” BBQ dinner in South Lake. This was followed up by some more R&R and a movie, with more emphasis on the R&R (not as young as we once were perhaps). We left the cabin Sunday morning with full hearts and aching muscles; Rio was a champ and did another round of skiing Sunday. The trip back afforded its usual traffic conditions, but ended up being a pleasant ride back to Sacramento. We managed to snag a great photo by a random Good Samaritan, the only group picture we were able to get! Stay tuned for more great YMF events in the future!



From left to right:  
Matt Quan, Emily Setoudeh, Hayden Sahnaw, James Langelier, Rachel Leung, Rio McMahon

**CONTINUING EDUCATION COMMITTEE UPDATE**

*By Sonia Eliseo, SEAOC Continuing Education Committee Chair*

The Continuing Education Committee (CEC) continues to serve the interest of our members by offering three seminars throughout the year, and we strive to bring you the best speakers and experts our field has to offer. We provide these seminars in person at a venue in West Sacramento, and remotely in Fresno, Reno, and Redding. An AV production company has been hired to assist us in the streaming of these seminars, including live video feed of the speakers. We hope that the remote seminars not only make information more accessible to all our members, but also foster a sense of community within these regions.

On a very windy day last fall, we held a Wind Design Manual Seminar in conjunction with SEAOC. This seminar was the debut of not only the long anticipated SEAOC Wind Design Manual, but was also the first full-day, in-person SEAOC seminar to showcase the publication. Authors and experts from all over the western United States came to provide insight to the six wind chapters of ASCE 7-10, and enlighten us on the examples provided within the design guide.

Code updates are next on our list of seminar topics. The 2019 CBC will be adopted January 1<sup>st</sup>, 2020, and with it, there are not only changes to the model code and California amendments, but also the adoption of many updated standards including ASCE 7 and 41, masonry, wood, structural steel, light gauge steel, and welding. Our plan is to provide a series of seminars to showcase these changes and prepare us for future requirements.

On March 7<sup>th</sup>, we will host the first of these code update seminars (by the time this newsletter is published, likely the event has already occurred). This seminar will focus on the updates to the ASCE documents, wood, and masonry. In May, we will bring you the second of our code update seminar, focusing on structural and light gauge steel.

Plans for a fall seminar are somewhat distant, but the current idea is a plan review seminar that would include DSA and OSHPD code updates, along with speakers from local private and public agencies who could give our membership information for improving the plan review process. This portion of the seminar could include a Q & A panel session with some of your favorite plan checkers. If you do have a favorite plan checker (in a good way), please send me their name.

The CEC is always looking for feedback and ideas. Please do not hesitate to call or send me an email with seminar suggestions and ideas for improvement. And if you are passionate about education, please consider joining our committee.



## SHAKEALERTLA USERS ARE CONCERNED ABOUT EARTHQUAKE APP'S SECURITY ISSUES, BUGS AND CRASHES

*By Rong-Gong Lin II, LA Times*

Los Angeles' earthquake early warning app has won buzz in recent weeks, as it's the first public app of its kind in the United States that aims to warn people seconds before shaking arrives from an earthquake.

It hasn't been truly tested yet: There has been no significant earthquake in the Los Angeles region since the app was published New Year's Eve. But lots of people are interested — ShakeAlertLA has been downloaded more than 400,000 times: 327,000 on iOS and 96,000 on Android.

But among users who commented on the app, some are concerned about privacy and crashes and expressed concerns that the app was rushed out too early.

See more at [LA Times](#) (3/1)



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## IS YOUR BUILDING SAFE AFTER AN EARTHQUAKE? THESE CHEAP SENSORS COULD TELL YOU

*By: Lizzie Wade, Science*

JANTETELCO, MEXICO—On 19 September 2017 at 1:14 p.m., the ground lurched under Mariano Matamoros Elementary School here. The earth had ruptured just 40 kilometers away, at the epicenter of a 7.1-magnitude earthquake that killed nearly 400 people across central Mexico. Adobe buildings, common in this small town, cracked and crumbled. At the school, a second-floor landing tilted precariously above a cracked concrete column. All the students and teachers evacuated safely, and the building was repaired, but for months, young students feared returning to second-floor classrooms, says Principal Casimiro Enríquez Vergara. "Any loud sound we hear now, we think it's an earthquake," he says.

Now, this school has become one of the first in Mexico to be equipped with a cheap sensor system that, in a future earthquake, will monitor shaking and automatically assess whether damage has occurred. The ideas behind the system, called Pulse and sold by the Mexico City-based company Grillo, are not new. Earthquake engineers have long put sensors in large, critical structures such as bridges and skyscrapers, so they can look for clues to hidden, deadly damage after a quake. The plummeting cost of sensors and the cloud computing needed to process all the data is allowing researchers in both the public and private sectors to deploy the sensors in many parts of the world. Scientists hope the systems can save lives and help prioritize repairs in the wake of deadly earthquakes.

"It's been a dream of the engineering community for a long time," says Thomas Heaton, a civil engineer and geophysicist at the California Institute of Technology (Caltech) in Pasadena. He compares the field, known as structural health monitoring, to "taking a building's blood pressure" and hopes for a day when all buildings in seismically risky regions are continuously monitored. Thanks to the newly affordable equipment, "it's really feasible" now, Heaton says.

[Science](#) (2/27)





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**Make-a-Palooza Event – Various STEM Activities**

Saturday, April 20, 2019, 8 am to 1 pm

Girl Scouts Heart of Central California STEM Center,  
6601 Elvas Ave, Sacramento, CA



Activities include building bridges with popsicle sticks and other materials, mapping out a city.

Volunteers RSVP before April 4, 2019 to Joyce Copelan [joyce\\_copelan@dot.ca.gov](mailto:joyce_copelan@dot.ca.gov) with two to three hour time slot preferred, name, phone number, email.



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Jose E. Mendoza, P.E.  
Pacific Southwest Manager

916.761.7318  
[jmendoza@crsi.org](mailto:jmendoza@crsi.org)

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**SEAOCC Board of Directors, February 2019**

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<https://jobs.ca.gov/CalHrPublic/Jobs/JobPosting.aspx?JobControlId=141609>

Eligibility to apply for this position requires completing a short online examination at the link below and selecting "Training and Experience Evaluation": <https://jobs.ca.gov/JOBSGEN/7PB41.PDF> If you have questions regarding the Sacramento Regional Office, please contact Dan Levernier ([dan.levernier@dgs.ca.gov](mailto:dan.levernier@dgs.ca.gov)) at 916-323-3013.



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Effective interpersonal skills in working with municipal representatives, clients, designers and contractors to resolve complex technical and delivery issues.

#### Education:

Bachelor of Science in Civil Engineering or related fields.

Registration as a Professional Engineer highly desirable.

ICC certifications in areas of expertise, or the ability to obtain shortly, are desirable.

#### **To apply please visit:**

[www.interwestgrp.com/printables/2018/UC\\_Merced\\_Professional\\_Engineer.pdf](http://www.interwestgrp.com/printables/2018/UC_Merced_Professional_Engineer.pdf)

**or email a cover letter and resume to**

[careers@interwestgrp.com](mailto:careers@interwestgrp.com)



# 2018-2019 SEAOC BOARD OF DIRECTORS, OFFICERS, AND COMMITTEE CHAIRS

*You are encouraged to get involved! Members are invited to join a SEAOC Committee.  
Contact the Chair for information on current projects and meeting dates, time, and location.*

	Name	Telephone	E-Mail
<b>PRESIDENT *</b>	Ali Sumer, Ph.D., S.E.*	916-440-8314	<a href="mailto:ali.sumer@oshpd.ca.gov">ali.sumer@oshpd.ca.gov</a>
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	Roy Lobo, Ph.D., S.E.	916-440-8471	<a href="mailto:roy.lobos@oshpd.ca.gov">roy.lobos@oshpd.ca.gov</a>
	Rachel Leung, P.E.	916-920-2020	<a href="mailto:rachel@cyseng.com">rachel@cyseng.com</a>
	Louay Shamroukh, S.E.	209-944-1094	<a href="mailto:ishamroukh@strongtie.com">ishamroukh@strongtie.com</a>
<b>EAST DISTRICT</b>	Brett McElhaney, S.E.	775-853-5525	<a href="mailto:brett@mcelhaneysturctural.com">brett@mcelhaneysturctural.com</a>
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<b>EXECUTIVE SECRETARY</b>			
	Lori Campbell	916-965-1536	<a href="mailto:seaocc@seaocc.org">seaocc@seaocc.org</a>
<b>AFFILIATED ORGANIZATION SEAOC REPRESENTATIVES AND/OR LIAISONS</b>			
Applied Technology Council (ATC)	Chris Tokas, S.E.	916-654-8779	<a href="mailto:chris.tokas@oshpd.ca.gov">chris.tokas@oshpd.ca.gov</a>
BSSC Representative	David Palmer, S.E.	916-418-8290	<a href="mailto:david.palmer@stantec.com">david.palmer@stantec.com</a>
NCSEA	Norm Scheel, S.E.	916-536-9585	<a href="mailto:norm@nsse.com">norm@nsse.com</a>
	Ryan Kersting, S.E.	916-443-0303	<a href="mailto:rkersting@buehlerengineering.com">rkersting@buehlerengineering.com</a>
	Darron Huntingdale, S.E.	916-558-1900	<a href="mailto:darron.huntingdale@lionakis.com">darron.huntingdale@lionakis.com</a>
SEAOC Foundation	Danielle Smith, S.E.	916-558-1900	<a href="mailto:danielle.smith@lionakis.com">danielle.smith@lionakis.com</a>
<b>SEAOC STANDING COMMITTEE CHAIRS + SEAOC REPRESENTATIVES ON SEAOC STANDING OR AD HOC COMMITTEES (SEAOC)</b>			
Audit	Tim Piland, S.E.	916-440-8407	<a href="mailto:timothy.piland@oshpd.ca.gov">timothy.piland@oshpd.ca.gov</a>
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Career Fair	Gaurav Bali, P.E.	916-443-0303	<a href="mailto:gbali@buehlerengineering.com">gbali@buehlerengineering.com</a>
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Communications (SEAOC)	James Langelier, P.E.	916-558-1900	<a href="mailto:james.langelier@lionakis.com">james.langelier@lionakis.com</a>
	Kendall Johnson	916-558-1900	<a href="mailto:Kendall.Johnson@lionakis.com">Kendall.Johnson@lionakis.com</a>
Continuing Education	Sonia Eliseo, S.E.	530-304-1117	<a href="mailto:Sonia.Eliseo@oshpd.ca.gov">Sonia.Eliseo@oshpd.ca.gov</a>
Disaster Emergency Services	Steve Hiner, S.E.	530-245-7197	<a href="mailto:Steven.T.Hiner@gmail.com">Steven.T.Hiner@gmail.com</a>
Excellence in SE Awards	Ben Faircloth, S.E.	916-920-2020	<a href="mailto:benf@cyseng.com">benf@cyseng.com</a>
Golf Tournament	Jeff Marchant, S.E.	916-371-0305	<a href="mailto:jmarchant@clarkpac.com">jmarchant@clarkpac.com</a>
House	Dave Hunn, P.E.	916-372-1434	<a href="mailto:dhunn@wallace-kuhl.com">dhunn@wallace-kuhl.com</a>
Legislative (SEAOC)	Ryan Kersting, S.E.	916-443-0303	<a href="mailto:rkersting@buehlerengineering.com">rkersting@buehlerengineering.com</a>
Membership	Laura Rice, P.E.	916-418-9100	<a href="mailto:LRice@degenkolb.com">LRice@degenkolb.com</a>
Newsletter	Rachel Leung, P.E.	916-920-2020	<a href="mailto:rachel@cyseng.com">rachel@cyseng.com</a>
Professional Licensing (SEAOC)	Ken Luttrell, S.E.	916-920-2020	<a href="mailto:kenl@cyseng.com">kenl@cyseng.com</a>
Program	John Weninger, S.E.	916-273-4670	<a href="mailto:jweninger@interwestgrp.com">jweninger@interwestgrp.com</a>
Public Relations	Joyce Copelan, P.E.	916-227-6832	<a href="mailto:joyce_copelan@dot.ca.gov">joyce_copelan@dot.ca.gov</a>
SE Exam Interview	Ed Nicholson, S.E.	916-966-5400	<a href="mailto:ejnse@aol.com">ejnse@aol.com</a>
SE3	Caleb Dunne, P.E.	916-373-1995	<a href="mailto:cdunne@miyamotointernational.com">cdunne@miyamotointernational.com</a>
Scholarship	Jim Carlson, S.E.	916-699-5920	<a href="mailto:jim.carlson@stantec.com">jim.carlson@stantec.com</a>
Social Media	Kaylee Efstathiou	916-558-1900	<a href="mailto:Kaylee.Efstathiou@lionakis.com">Kaylee.Efstathiou@lionakis.com</a>
Structural Standards (SEAOC)	Chris Tokas, S.E.	916-654-8779	<a href="mailto:chris.tokas@oshpd.ca.gov">chris.tokas@oshpd.ca.gov</a>
General Engineering	Doug Krug, S.E.	916-966-0762	<a href="mailto:doug@mckennykrug.com">doug@mckennykrug.com</a>
Seismology	David Palmer, S.E.	916-418-8290	<a href="mailto:david.palmer@stantec.com">david.palmer@stantec.com</a>
Existing Buildings	Eric Fuller, S.E.	916-443-0303	<a href="mailto:eric@buehlerengineering.com">eric@buehlerengineering.com</a>
Sustainable Design	Lisa Podesto, P.E.	530-520-7966	<a href="mailto:Lisa.podesto@gmail.com">Lisa.podesto@gmail.com</a>
Co-Chair	Ryan Miller, S.E.	916-443-0303	<a href="mailto:rmiller@bbse.com">rmiller@bbse.com</a>
Wind	Ken Luttrell, S.E.	916-920-2020	<a href="mailto:kenl@cyseng.com">kenl@cyseng.com</a>
Ad Hoc-EPRS (SEAOC)	Fred Turner, S.E.	916-263-0583	<a href="mailto:fred.turnerSE@gmail.com">fred.turnerSE@gmail.com</a>
Student Relations	Amy Hopkins, P.E.	916-443-0303	<a href="mailto:ahopkins@buehlerengineering.com">ahopkins@buehlerengineering.com</a>
Young Member Forum	Matt Quan, P.E.	916-558-1900	<a href="mailto:matt.quan@lionakis.com">matt.quan@lionakis.com</a>
Co-Chair	Caleb Dunne, P.E.	916-373-1995	<a href="mailto:cdunne@miyamotointernational.com">cdunne@miyamotointernational.com</a>
Web Site	Kaylee Efstathiou	916-558-1900	<a href="mailto:Kaylee.Efstathiou@lionakis.com">Kaylee.Efstathiou@lionakis.com</a>
2019 SEAOC Convention	Alban Gjonecari, P.E.	530-672-1600	<a href="mailto:alban@burneengineering.com">alban@burneengineering.com</a>
SEAOC Snow Load Mapping Project	John Corless, S.E.	530-222-3300	<a href="mailto:corless@nmrdesign.com">corless@nmrdesign.com</a>

## STRUCTURAL ENGINEERS ASSOCIATION OF CENTRAL CALIFORNIA

P. O. Box 2590

Fair Oaks, CA 95628-9590

[www.seaocc.org](http://www.seaocc.org)