



SOCIETY OF AMERICAN MILITARY ENGINEERS SACRAMENTO POST NEWSLETTER

www.samesacramento.org

Volume 5 Issue 3

Fall 2015

Upcoming Events:

28 January 2016

General Meeting
Topic: El Nino and Flood
Control at Cal OES

25 February 2016

General Meeting
Topic: California Drought
Solutions

See samesacramento.org for details and more upcoming events.

To be notified by email of upcoming SAME events and announcements, please send a request to info@samesacramento.org

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President's Message 2015

Dear Members and Friends of the Sacramento Post, Society of American Military Engineers:

What a great year we have had in the Sacramento Post! The creativity and dedication of our membership never ceases to impress me. We have had a full calendar of events, of all shapes and sizes, and each and every one has been a rousing success.

The big events, like the Golf Tournament, the Holiday Mixer and the Sustaining Members Forum, were all fun and well attended. These are the places we raise funds to support our charitable efforts. Thanks to your participation we were once again able to deliver \$33,000 in scholarships, as well as making record donations to the Fisher House and St John's Program for Real Change. We also participated in a variety of smaller events, such as the River Cleanup and the STARBASE program. We presented a wide variety of programs and site visits for our monthly meetings, and have another robust program scheduled for 2016. And we reactivated our Sacramento State student post, while beginning to reinvigorate our Travis and Beale sub-posts.

I especially want to thank the talented officers, directors, and committee chairs of the Post. They dedicate innumerable hours each month arranging programs and activities, maintaining the website and our communications with our members, and keeping track of the admin details that make everything function so smoothly. It should be obvious, but I'll say it anyway: we couldn't survive without them.

Looking forward to 2016, one of my goals will be to increase attendance at our meetings and events. There are over 600 registered members of the Sacramento Post. If we could consistently get 10% to attend, it would be a great improvement. Please make an effort to attend just one or two events this year, or volunteer at one of our projects. I promise you won't regret it!

I hope to see many of you at our Holiday Mixer on December 15th. For those of you who aren't able to attend, I wish you the best of the holiday season and a joyous and blessed 2016.

COL (CA) Michael L Herman, PE, F. SAME
Sacramento Post President



SAME Sacramento Post 2015 Sustaining Members Forum

By Dave Cook, GENTERRA Consultants, Inc., Post Past President and SMF Conference Chair

Every other year, your SAME Sacramento Post plans and holds a one-day conference, the Sustaining Members Forum (SMF), focused on business opportunities. The 2015 Sustaining Members Forum was presented this year as a joint event with the San Francisco Post. The SMF was held at the Harper Alumni Center on the campus of California State University -Sacramento. The 101 registered attendees were welcomed by COL Mike Herman, SAME Sacramento Post President and Mr. Tony Petrocitto, SAME San Francisco Post President. The program consisted of a morning session, a lunch keynote, an afternoon session, and a wrap-up keynote speaker.



CSUS Alumni Center, venue for the 2015 Sustaining Members Forum

The morning session presented updates on key major projects affecting our Northern California region and beyond. The first presenter was Mr. David Thomas, USACE Sacramento District. Mr. Thomas discussed the Isabella Dam Safety Modification Project. He explained the potential failure modes for the main and auxiliary dams and the resulting inundation risks. The planned safety modifications to both dams were presented as well as some of the construction design details. Contract award for the major construction effort is scheduled for FY17.

The second morning speaker was Mr. John Bednarski of Design and Construction Enterprise. Mr. Bednarski updated the attendees on the status of the Bay-Delta Conveyance Program. He explained

that California's water supply infrastructure is out of date and subject to climate change, seismic risk, and environmental decline. The \$14.8 billion conveyance project, funded by public water agencies, is needed to provide safe water transport from south of Sacramento to the Clifton Court Forebay. The transport would be via gravity flow tunnels that move the fresh water safely under and through the Delta area. The presentation discussed tunneling technology and the tunnel design for



Attendees at the Sustaining Members Forum are briefed on major projects and programs affecting our region.

this very large project. The tunneling is currently scheduled to begin about 2020.

The third presentation from Mr. Youssef Awad of the California Department of Water Resources, Division of Flood Management, provided a discussion on the levee evaluation program. The presentation, titled "Levee Evaluation Program goes Digital," explained how the results, data points, and reports from the massive database on the conditions of the urban and non-urban levees in Northern California, which has been gathered over the last several years, is now available to the public on a searchable database located at www.dwr-lep.gov.

The fourth morning presentation was from Mr. Scott Flake of Sacramento Municipal Utilities District. He updated the group on the Iowa Hill Pumped Storage Project. The project is driven by the need for more electrical storage capacity to balance generation

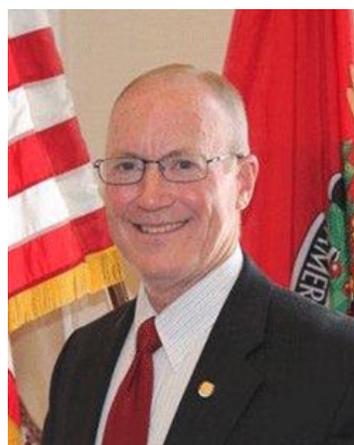
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2015 Sustaining Members Forum (cont.)

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capacity and use rate. The project is in final design and permitting through 2018.

In perhaps the largest project of all, Mr. Scott Jarvis and Ms. Karen Massie provided the SAME attendees with an update on the California High-Speed Rail Authority's progress on making high-speed rail transportation a reality for California. Mr. Jarvis reported that the project has broke ground and work is underway. Several contract packages will move



*BG (Ret) Joseph Schroedel,
Executive Director of the
Society of American Military
Engineers*

the project forward over the next several years.

One highlight for SAME Members at the Sustaining Members Forum was the chance to hear and meet the new National Director for the Society, BG (Ret) Joseph Schroedel. GEN Schroedel provided the lunch keynote address. The year 2020 will be especially exciting for SAME, the 100th anniversary of

our organization. GEN Schroedel discussed his initiatives and vision moving forward toward this milestone.

After lunch the Sustaining Members Forum turned to our military leaders to update the group on their programs. Briefings were provided by:

- Mr. Joe Calcara, USACE South Pacific Division
- COL Mike Farrell, USACE Sacramento District,
- LTC Dennis Sugrue, USACE Los Angeles District
- Mr. Jeff Cross, US Coast Guard Oakland Civil Engineering Unit Oakland
- Lt. Cyrus Olsen, US Air Force 60th Contracting Squadron, Travis Air Force Base

Our day ended with a presentation from the governor's office on the drought affecting California and plans to address the issue. Our presenter was Ms. Debbie Davis-Franco, Community and Rural Affairs Advisor and Local Drought Liaison, Governor's Office of Planning and Research.



*COL Mike Farrell, USACE Sacramento District Commander,
presents information on his program at the Sustaining
Members Forum.*

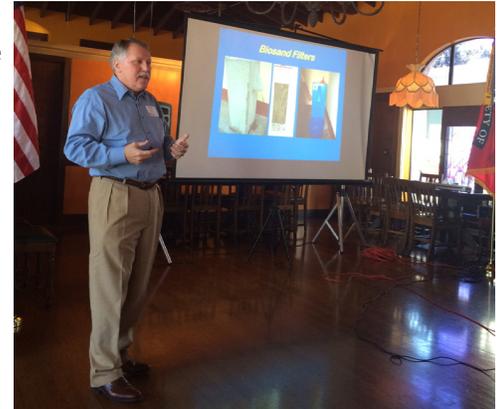
In summary, the 2015 Sustaining Members Forum was successful in meeting a number of goals. There was presentation of and question and answer periods for the discussion of business opportunities. There was technical information provided and plenty of networking opportunity. Professional Development Hours have been awarded to attendees. Finally the conference met its financial goals to support SAME mission programs and charitable donations. The SAME Sacramento Post thanks all those who sponsored and attended our 2015 Sustaining Members Forum.

Summary of September General Meeting - Engineers Without Borders

By Sarah McIlroy, Stantec, SAME Director

On Thursday, September 24, 2015 members of the Sacramento Post attended the monthly general meeting at the Old Spaghetti Factory where we learned about another inspiring organization – Engineers Without Borders (EWB). Dave Cook, President-Elect of EWB-USA and Principal Geologist with GeoEngineers Inc. in Seattle, provided an overview of the organization. The mission of EWB is to help “build a better world through engineering projects that empower communities to meet their basic human needs and equip leaders to solve the world’s most pressing challenges.”

After learning about the EWB organization in general, Professor Bill Fleenor from the UC Davis Civil & Environmental Engineering Department provided us an overview of the projects he has worked on in Africa providing sanitary facilities and clean drinking water to several communities. The work described was quite inspiring and I encourage everyone to learn more about this organization at <http://www.ewb-usa.org>.



Professor Bill Fleenor presenting at the September General Meeting

SAME Sacramento Post Participates in the Great American River Clean Up

By Sarah McIlroy, Stantec, SAME Director

On Saturday, September 19, 2015 members of the Sacramento Post participated in the Great American River Clean Up. Locally, the event was hosted by the American River Parkway Foundation and is an annual effort to maintain the health of the American River Parkway and American River. Removing trash and debris prevents pollutants from entering the watershed, harming the wildlife, or creating hazards for recreational users. Additionally, keeping the Parkway clean protects ocean life by preventing trash from being washed downstream during the winter rains.

Ten members and friends of the Post picked up trash along Rossmoor Bar on the Parkway. It was a beautiful morning and a great way to casually talk with friends while benefiting the environment. After a morning of picking up bottle caps and cigarette butts, many of us settled for a cold glass of water.

Sacramento Post participants included Mike O'Hagan (Forsgren), Brian Boen (AECOM), Sharol Moore (347 Group), Cheryl Bly-Chester (Rosewood Environmental), Sarah McIlroy (Stantec), and COL Herman. A big thank you to everyone for helping!



SAME Sacramento Post Members and Friends at Rossmoor Bar

SAME Sacramento Post Visits Folsom Dam Auxiliary Spillway Project

By SAME Member

On October 22nd forty five Society of American Military Engineers - Sacramento Post members and guests toured the Folsom Dam Auxiliary Spillway Project. The tour started with a presentation by Mr. Brandon Muncy (USACE-Sacramento) outlining the history of Flood Control in the Sacramento Area and how the Folsom Dam Auxiliary Spillway Project was designed to reduce Flood Risk in the area. The presentation can be found on the Sacramento Districts website via the following link: <http://www.spk.usace.army.mil/Missions/CivilWorks/FolsomDamAuxiliarySpillway.aspx>.

First stop on the tour was the north side of the spillway channel where multiple construction contractors were working on finishing the large 3,030 foot long concrete spillway and the six bays which each have 30-foot by 45-foot Tainter (radial arm floodgate) gate. The six bays can release a flow rate of 300,000 cubic feet per second which they gave a visual comparison of imagining



300,000 basketballs passing through per second. Our second and final stop was on top of the control structure where we could observe the massive concrete spillway or on the other side looking towards the Folsom Lake we could see the breath taking 1,000 foot long intake structure. Although the drought has been seen as a negative in the area it did have a positive effect on construction allowing alternative methods to be used on the lakeside of the control structure which also allows the project completion to advance sooner than predicted. From the top of the control structure the group went down into the control structure where mechanical and other support systems can be accessed for operations and maintenance of the system. This tour is one of the last of its kind as once water is introduced to the control structure tours will not be allowed to continue.

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Reflections on SAME Army Engineering and Construction Camp

By Emily Cai, Mira Loma High School Student

My summer was filled with more adventure than I could ever have hoped for. Thanks to SAME, I was able to attend the Army Engineering and Construction Camp in Vicksburg, Mississippi. The idea of traveling by myself, to Mississippi of all places, was a bit disconcerting, but the minute I stepped foot off the plane, I knew I was going to have a great time. Mrs. Turner, one of the camp volunteers, was waiting for me as I arrived in Jackson, and she walked me over to the waiting area where I met several other campers.

These students came from all over the country, ranging from Indiana to Georgia. None of us knew each other, but everyone was very friendly, and as we waited for one last flight to arrive, we talked about our schools, hobbies, and favorite movies, helping us get to know each other better.

The week consisted of trips to countless engineering firms around Vicksburg, hands-on projects and activities, a trip down the Mississippi River, and even a swim party. My favorite activity was pouring concrete. This was something I'd never done



Emily Cai

before, and I enjoyed seeing the entire process. On our team, my job was to using the bull float to smooth and even out the concrete. After we perfected our concrete, I carved our team logo (a viper head) onto the concrete. Another activity I enjoyed was using software to design a bridge. Our goal was to make the most economical bridge possible while still being able to hold the weight of passing cars. The program highlighted stress points and calculated the amount of pressure being put on different parts of the bridge. This was a very fun activity and allowed us to be creative and experiment with many different

bridge types and designs.

Before coming to camp, I did not know much about civil engineering, but after all the activities we did during camp, I realized that it is a field I really enjoy. I plan to major in Civil Engineering, and in the future, I would like to be a structural engineer, forensic engineer, or urban planner. Thanks to SAME, I have discovered what I want to do in the future, so I would like to thank everyone reading this for your support and I hope that SAME will continue organizing these camps for years to come!



Join the 'SAME Southwest Region Group' on LinkedIn to get the latest updates on SAME as well as connect with other SAME members in your area. The Southwest Region includes eight Posts and associated Field and Student Chapters throughout California and Nevada.

SAME Student Chapter Update

By Aaron Allen, CSUS SAME Student Chapter President

This semester, the California State University, Sacramento (CSUS) SAME Student Chapter has been reestablished and is making excellent progress. Within the first few weeks the Student Chapter received official campus recognition from Sac State, secured a seat on the College of Engineering and Computer Science (ECS) Joint Council, obtained SAME@ecs.csus.edu as a permanent email, and confirmed the CE Department Chair (Dr. Ben Fell) as faculty advisor.



Joshua Gallegos (Treasurer), Evelyn Gallegos, Aaron Allen (President), Lincoln Gallegos (Secretary), Pheng Lee, Eric Cesar (CM Rep), Detrick Warner (EEE Rep), William Maldonado, Luke Carthew, and Doug Ostheimer (VP).

Additionally, along with using the ECS Joint Council and individual member connections to work with other student organizations on campus, the Student Chapter has designated six Major Representatives, one student from each major (CE, CM, CS, CpE, EEE, ME), to increase effectiveness and awareness.

For the remainder of 2015, the Student Chapter's goals are to finish establishing a solid foundation, ensure future continuity, and prepare for another big push to start out the New Year. While no recruitment activities have begun yet, next year the focus will be on expanding outreach, increasing student involvement, and holding at least one event – an Evening with Professionals in March.

Furthermore, almost every member is a veteran which has enabled the Student Chapter to establish close ties with the campus Veteran's Success Center, the Veteran Services Coordinator, the Student Veteran Organization and Fraternity.

Although all of the 30 student members are new to SAME, they look forward to that changing. The CSUS Student Chapter would also like to thank COL(ret) Mike Conrad and Neysa Bush (CSUS ECS Career Services Director) – without their help, none of this would have been possible.

STARBASE Career Day Support – Upcoming opportunities!

By Sarah McIlroy, Stantec, Director

Your help is needed to inspire a future generation of STEM leaders. The next opportunities to participate in STARBASE will be on: **Dec 17 and 18.**

STARBASE Sacramento has asked us to develop a speaker's bureau for their Career Day activities. They would need a maximum of five speakers per month during the school year. The speakers could be five different individuals, or one individual repeating each day for five days. The speaker will have a maximum of 20 minutes, split between presentation and Q&A. STARBASE is hopeful that we can find speakers who will be dynamic and interesting to a class of 11-year old fifth graders. Speakers may focus on their job or life story, bring

videos or slides, or even bring in equipment for a hands-on presentation. The intent is to get the students interested in a STEM career.

Cultivate, mentor and inspire boys and girls to pursue careers in Science, Technology, Engineering, and Math (STEM). Please contact our Post President at michael.l.herman.nfg@mail.mil to learn more, volunteer, and coordinate scheduling.

Visit <http://www.samesacramento.org/starbase-support.shtml> to learn more about volunteer opportunities in support of this important SAME mission. A big thank you to the SAME Members who have previously volunteered!

SAME Membership

The New 'Partner Program' and '6 Any Way' Approach

By Coreen Cecil, Membership Committee

Membership for the Sacramento Post is always a topic of interest. New SAME membership incentives are certain to inspire existing members to increase their SAME presence and entice new company sponsorship.

To find out more about our new 'Partner Program' take a look at the 2016 Sustaining Member Partnership Program flyer as explained in this newsletter. SAME has a list of excellent ongoing promotions for your company throughout the year as a Sustaining Member.

The '6 Any Way' is a test program being released by headquarters on a trial basis and is scheduled to end on December 31, 2015. A robust attendance for SAME Sacramento Post means:

- Greater impact in our community for worthy outreaches such as the STARBASE Academy program to foster an interest in engineering for local elementary school youth.
- Fundraising efforts for the Scholarship Program to assist college students pursuing engineering based careers.
- Awareness and support for the Fisher House and St. John's Women's Shelter.
- Networking opportunities for businesses that support SAME to foster new relationships while strengthening old relationships in both the federal and private sectors.
- Let's not forget the importance of the on-going education that SAME offers its members.

While overall membership counts, not including students, may be down slightly:

2014

Individual Members: 226
Company and Agency Representatives: 440
Total Membership: 666

2015

Individual Members: 228
Company and Agency Representatives: 385
Total Membership: 613

The '6 Any Way' approach to membership will stimulate company involvement and growth within the SAME organization. Instead of your Post membership having to consist of 1-POC, 3-REPS & 2-YREPS, you can now list your six reps anyway you want until December 31, 2015.

To take advantage of this offer, have the National POC, Cherlyn Thompson, Sustaining Member Manager, (cthompson@same.org, 703-549-3800 ext.121) follow the steps below.

Or you can manage your company's account by clicking on the this link— https://membership.same.org/cvweb_samesm/MainLogin.shtml

Once you click on the link it will ask for your email address cthompson@same.org (this is the NPOC for company's email address) and password **456789** (usually your membership number unless you changed it). After you have logged in, please select Company Membership Home in the blue box on the left hand side of the page.

To add representatives not already listed on the company's membership, select Add Member Representative (the option in blue font).

Once you have added all the representatives for your company, click on the Post you would like to have them listed under and you can add them by selecting member and choosing them from the list. Remember you can choose 3 posts per person so keep your sister Posts in mind to bolster membership counts.

To add an additional representative beyond the allotted slots, select Purchase an Additional Representative for Post (it will be in blue font).

To remove representatives, click on the name of the post they are listed under and select remove.

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'Partner Program' and '6 Any Way' (cont.)

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With these incentives and your involvement, Sacramento Post membership goals will be met. We know this to be important in that it opens the door for the recognition of the other programs the post pursues each year--education, training, leadership, mentoring, emergency preparedness and more.

Also of note worthy mention, the Small Business Conference that was held November 4-6th in New

Orleans, LA had an exemplary turn out of over 2,000 attendees. 2016 events are just around the corner and if travel is not in your scope, SAME National has excellent virtual events to keep professionals and students engaged, informed and networking.

If there are any questions about membership, please don't hesitate to contact Coreen Cecil at 916-519-7466 or coreen@cscad.com or Sharol Moore at 916-242-4347 or sharol.moore@347group.com.

Sacramento Post Sustaining Member Firms

The Sacramento Post is made strong by the continuing support of our Sustaining Member Firms and our Supporting Agencies. These great organizations are listed below (based on the National Database dated September 2015.)

347 Group, Inc.

AECOM

AHTNA Engineering Services, LLC

Alta Vista Solutions

Amec Foster Wheeler

Anvil Builders, Inc.

ARCADIS, U.S., Inc

Atkins

Bay West LLC

BC Laboratories, Inc.

Black & Veatch Special Projects Corp.

Blackburn Consulting

Blaine Tech Services, Inc.

Brown and Caldwell

Burleson Consulting Inc.

Burns & McDonnell

Cabrera Services Inc.

Cardno, Inc.

CB&I Federal Services, LLC

CDM Smith

CH2M

City Light & Power, Inc.

EA Engineering, Science, and Technology, Inc.,
PBC

ECORP Consulting, Inc.

Engineering/Remediation Resources Group (ERRG)

Environmental Quality Management Inc.

ERM

Forsgren Associates, Inc.

Gannett Fleming Inc.

GENTERRA Consultants, Inc.

GHD Inc.

Gilbane Federal

Granite Construction Company

Hatch Mott MacDonald

HDR

HELIX Environmental Planning

HydroGeoLogic Inc.

Innovex Environmental Management, Inc.

Jacobs

Kleinfelder

Leidos

Magnus Pacific Corporation

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Sacramento Post Sustaining Member Firms (cont)

(continued from page 9)

Marsh Creek LLC	Site Work Solutions, Inc.
Martin Brothers Construction	Spectrum Services Group, Inc.
Martinez Services, Inc	Stanley Consultants, Inc.
Mason & Hanger	Stantec, Inc.
Mead & Hunt, Inc.	Suulutaaq, Inc.
MGE Engineering, Inc.	Swinerton Builders Government
Michael Baker International, Inc.	Synectics
MWH	Taber Consultants
NCE	Terracon Consultants, Inc.
Ninyo & Moore	Tetra Tech, Inc.
Nomlaki Technologies, LLC	The Dutra Group
Nordic Industries, Inc.	The Stahl Companies, Inc.
Northgate Environmental Management, Inc.	Towill, Inc.
Pacific States Environmental Contractors, Inc.	Trihydro Corporation
PIKA International	USACE - Sacramento District
Psomas	WEST Consultants, Inc.
Quincy Engineering, Inc.	West Pacific Electric Company
Robert Heinen Consulting Engineers	Wildlands
Rore, Inc.	Wood Rodgers, Inc.
SAGE Engineers Inc.	Woodward Drilling Company, Inc.
SAME	Woolpert, Inc.
Shannon & Wilson Inc.	

**The Sacramento Post appreciates the support from all our
Individual Members and Sustaining Member Firms!**

Those individuals or firms interested in becoming SAME members can contact Sacramento Post Membership Chair, Coreen Cecil at 916-519-7466 or coreen@cscad.com or Sharol Moore at 916-242-4347 or sharol.moore@347group.com For information on types of available SAME memberships, please visit: <http://www.same.org/>



SOCIETY OF AMERICAN MILITARY ENGINEERS