Upcoming Events:

25 October 2012
Sustaining Members Forum

15 November 2012
Young Members Forum at
CSUS Alumni Center

27 November 2012
Holiday Mixer at Red Rabbit

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

In this Issue:

Golf Tournament 1
CA High Speed Rail 2
SMF Forum 2
Net Zero Energy 4
Rivercats Military Appreciation Night 6
Emerging Leaders Alliance Conference 7
Opportunities to Get Involved 8
Sacramento Post Membership Report 10

2012 Golf Tournament Raises Nearly $30,000 for Scholarship Fund

by Babette Neal, SAGE

The 2012 SAME Sacramento Post Annual Scholarship Fund Golf Tournament was again a huge success! The event was held at Granite Bay Golf Club for the second year in a row and raised nearly $30,000 for the Scholarship Fund. After selling out two weeks in advance, 25 golfers were placed on a waiting list! Early advertising and the success of last year’s event were large contributing factors to the early sell out. Golfing with SAME members and guests was a great way to spend the day having fun and raising money for future engineers.

As always, the success of this event is also attributed to the team work and support provided by company sponsors, member attendance, and a great group of enthusiastic volunteers. There were 148 (Continued on page 3)

2013 Programs - Do you have an interesting project/meeting topic that may be of interest to our Post members? Or would you like to help plan our Program 2013? If so, contact our Program’s Committee (see to pg 8-9 for contact info). Also see Page 8-9 for other ways in which you can get involved with the Post.
Attendees to the July 2012 General Meeting were presented with a briefing on the proposed California High Speed Rail Program. Over 60 members were in attendance. The briefing was led by Hans Van Winkle, Project Manager for the California High Speed Rail Authority. Per Mr. Van Winkle, California’s population will increase from 38 to 50 million people by the year 2035. When fully operational, the California High Speed Rail project will be the first true high speed rail in the United States and provide a sustainable solution to meet the increasing demand for reliable modes of transportation throughout the state of California. A large portion of the presentation focused on the first of four construction phases, all of which will be implemented within the Central Valley from Madera to Bakersfield. When completed, the initial segment will serve as a testing ground for new high speed train technology that would be implemented when the system is operational. At the end of the briefing, Mr. Van Winkle’s fielded questions from attendees. Topics included reasons for the chosen alignment and contacting opportunities for small and disadvantage businesses.

Sustaining Members Forum - Looking Forward and Beyond

SAVE THE DATE! The Sacramento Post will host a Sustaining Members Forum on 25 October 2012 at the Dante Club, 2330 Fair Oaks Blvd, Sacramento. Come be a part of the Post’s largest event for 2012. Speakers from USACE South Pacific Division, Bureau of Reclamation, Navy, and California Army National Guard will be providing useful information about major upcoming opportunities in design and construction. A limited number of Exhibit Display spaces (showcase your company/firm) for Sacramento Post Sustaining Member Firms and Conference Program Advertisements will be available. A draft program can be downloaded from the SAME Sacramento Post Website (www.samesacramento.org). Visit the website to register for the Sacramento Post Sustaining Member’s Forum. Early registration pricing ends 1 October 2012.
golfers playing in a 4-person scramble. An extra foursome was added to make space available for those at the top of the waiting list. Teichert provided lunch and participants refueled at various locations on the course with refreshments provided by HDR, SAGE, MWH, Komada LLC, Bridge View Resources, Taber Consultants, and Taber Drilling. Van Housen Automotive Group of Sacramento brought a beautiful 2012 Mercedes for a Hole-In-One prize but no one could pull off that perfect shot. After a full day of golf, the first dinner drink was provided by Magnus Pacific and a Mexican Fajita dinner by Kiewit. Thanks to Celeste Arvin and Colleen Schaefer at HDR, a slide show presentation of the day on the course was running during dinner with photos of everyone having a great time. Finally, the awards and raffle prizes that were generously donated by participating companies were distributed. Like many Sacramento Post events, there were several big winners!

The income generated from the golf tournament allows us to continue encouraging and supporting prospective students to pursue careers in the engineering and technical fields. The proceeds will be used for the Sacramento Post Scholarship Fund and will be awarded to qualified high school and college students from the Sacramento area. Thank you to Steve Sanders, President of SAGE for volunteering to coordinate this event and to our generous sponsors: Title Sponsor: HDR; Dinner Sponsor: Kiewit; Refreshment Sponsors: SAGE, MWH, Komada LLC, Bridge View Resources, Taber Consultants, and Taber Drilling; Lunch Sponsor: Teichert; 1st Drink Sponsor: Magnus Pacific; Hole-In-One Sponsor: Van Housen Automotive Group; Golf Cart Sponsor: Quest GeoSystems Management; Margarita Cart Sponsor: Wood Rodgers; and Hole Sponsors: Suulutaaq, Inc., Westervelt Ecological Services, Ahtna, Psomas, Lionakis, Cabrera Services, Inc., GEI Consultants, American Integrated Services, CH2M Hill, ERM, Martin Brothers Construction, Sprung Instant Structures, RORE, Inc., Vista Analytical Lab, Blaine Tech Sevices, Brown & Caldwell, Accutest, and Sapper West. Last but not least, a big thank you to all of the 2012 participants and volunteers. The level of success and participation for this event just keeps getting better every year. The 2013 Annual Scholarship Fund Golf Tournament will be held at Granite Bay Golf Club on June 17th. If anyone would like to volunteer for next year’s event, please contact Babette Neal or Steve Sanders at 916-729-8050.
The main presentation of the August General meeting was Net Zero Energy: what it is, why it matters, and how it’s implemented. Net zero buildings are buildings that are designed and constructed with greatly reduced energy needs through efficiency gains such that the balance of energy needs can be supplied with renewable technologies. In the context of climate change, one way that energy consumption can be reduced is to construct buildings with a lower (or no) energy demand. Buildings are strategically important to energy use and the environment because they consume over 40% of the nation’s overall energy and over 70% of the nation’s electricity. In response to the growing demand to reduce energy consumption, there have been a myriad of governmental and private sector responses, including several new regulations. One new regulation is Executive Order 13514, which states that as of 2020 planning for new federal buildings will require design specifications that achieve Zero-Net-Energy use by 2030.

LEED (Leadership in Energy and Environmental Design) provides a framework for the design, construction, and operation of high performance green buildings. In the LEED rating system energy efficiency has always been given maximum weightage. In the current 2009 standards, energy efficiency accounts for 19 of the total available 110 points or 17.2%. Energy efficiency is at the core of all Net Zero Energy concepts. A zero energy building can be defined in several ways. Different definitions may be appropriate depending on the project goals and the values of the design team and the building owner. Net Zero Energy definitions as defined by the National Renewable Energy laboratory are provided below.

- Site Energy – a site ZEB produces at least as much energy as it uses in a year
- Emissions – a net-zero emissions building produces at least as much emissions-free renewable energy as it uses
- Source Energy – a source ZEB produces at least as much energy as it uses in a year
Net Zero Energy Presentation (cont.)

when accounted for at the source (primary energy used to generate and deliver energy to the site)

- Cost – in a cost ZEB, the amount of money the utility pays the building owner for the energy the building exports to the grid is at least equal to the amount the owner pays the utility for the energy services and energy used over the year

Some of the strategies implemented to achieve net zero energy include:

- Day-lighting
- Natural ventilation
- Transpired collectors
- Underfloor air
- Low energy lighting
- Radiant slabs
- Evaporative cooling
- Thermal mass
- Night purge
- Wind protection
- Green IT

Large Net Zero Energy buildings are now a reality and while the strategies implemented on the SMUD East Campus Operations Center & National Renewable Energy Laboratory projects will vary in applicability to other projects, the overall approach to achieving large energy savings without additional costs is repeatable and can serve as a blue print for making Net Zero Energy market-viable.

Save the Date for the PNW Regional Conference

Mark your calendars for the Pacific Northwest SAME Regional Conference. “Exploring New Horizons” is the theme for this SAME Pacific Northwest (PNW) Regional Conference. Our PNW sister Posts are well into the development stages for their SAME Regional Conference. The conference is scheduled for November 3rd – 6th, 2014 at the DoubleTree Hotel in Portland, Oregon. The Sacramento Post website will provide a link to this conference once additional information is available.
Every season, the SAME Sacramento Post likes to recognize the men and women in uniform who serve our country at a local sporting event that’s fun for the whole family. Earlier this year, the SAME Sacramento Post and distinguished guests took in a Sacramento Kings game against the Memphis Grizzlies. On 22 August 2012, the SAME Sacramento Post and heroes from nearby military bases descended upon Raley Field in West Sacramento to watch the Sacramento Rivercats take on the Salt Lake City Bees. Since supporting our military members and their families is one of SAME’s core missions, the Sacramento Post jumped at the opportunity to once again sponsor the event as a way to thank our men and women in uniform, along with their families.

The SAME Sacramento Post board members voted to purchase 50 tickets, with 25+ tickets designated for service members and their families from Beale Air Force Base, Travis Air Force Base, and the California National Guard. The SAME Sacramento Post seating block was in the premium Solon club seats, which have the best view of the field in the entire ballpark. All remaining tickets were sold to Sacramento Post members, and all 50 tickets were quickly spoken for as soon as word for the event got out.

The 2012 Sacramento Rivercats Military Appreciation Event was a huge success for everyone involved, as the Rivercats earned a huge victory over the visiting Bees, 9 – 4. Thank you to all of those who invested their time and effort to allow the Sacramento Post to express our gratitude to the men and women who serve this great country.
The Distinguished Southwest Region of SAME was recently given the opportunity to sponsor two “Emerging Young Leaders” to attend a Leadership Conference, Emerging Leaders Alliance, in Reston, Virginia (September 11-13, 2012). The Emerging Leaders Alliance is a partnership among leading engineering, research and science-based organizations that provides high quality leadership training. Their mission is to provide an interdisciplinary annual conference for select professionals, while promoting the development of great leaders by addressing the various requirements and inter-personal skills that people and organizations need in the 21st century.

Dr. Bob Wolff, PE, the Executive Director of SAME National, attended the conference and was instrumental in SAME’s participation in and sponsorship of this leadership organization. It was SAME National’s intention to send nominees from the 7 most distinguished Regions of SAME in 2011 as a reward for their outstanding contributions to the Society.

The Sacramento and San Diego Posts had the honor of nominating both Lauren Bean, with ICF International, and Allison Basche, with NAVFAC, to represent the Southwest Region. The two women were amongst ~80 of the brightest and ambitious “Young Leaders” from around the world and learned a great deal about what it takes to become a strong leader.

I was truly amazed at how many incredible young professionals were sent from literally all over the world (including Brazil, India, Chile, Iran, Spain, the Netherlands, the UK and even Ghana) to attend this training. It was so refreshing to see such a bright pool of young talent from around the globe and know that they (we) will all be our world’s next leaders.
I attended my first SAME event in 2009. It was the Water Conference that the SAME Sacramento Post sponsored. I was immediately impressed and excited about the individuals that participated. Shortly thereafter, I inquired of the Sacramento Post’s 1st VP (at that time, Steven Herrera) how I might get involved. Very shortly thereafter, I was welcomed by the members of the board and given my first opportunity to get involved and help accomplish the Post’s mission. They listened to my ideas and welcomed my support.

SAME Sacramento Post is run by a work force made up of volunteers that strive to provide high quality programs for our members while serving our community and supporting our deployed troops. I have enjoyed my opportunity to network with other engineers affiliated with SAME. If you have been looking for an opportunity to get involved like me, here is a sampling of the areas to get involved, along with names and info for the person to contact:

► AWARDS AND RECOGNITIONS COMMITTEE: The awards and recognition committee is responsible for timely preparation and processing of recommendations for various awards available from the Society for Post members. These awards are designed to recognize individual members and sustaining member firms who have demonstrated consistent dedication and commitment to promoting SAME’s mission.

Awards and Recognitions Committee Chair: Vacant

► EMERGENCY PREPAREDNESS COMMITTEE: The emergency preparedness committee is responsible to develop processes, so the Post membership can be called upon to mobilize quickly and effectively in assisting the local community and our nation in times of natural and man-made disasters. The committee evaluates and offers specialized training to those members who have an interest in volunteering their time and professional skills assisting the community and the nation during such emergencies.

Emergency Preparedness Committee Chair: Scott Cameron, P.E.
MAJ, EN, CAARNG, Phone: 916-854-3546, E-mail: scott.cameron@us.army.mil

► MEMBERSHIP COMMITTEE: The membership committee is responsible for initiating actions as may be advisable to increase Post membership. The committee is also responsible for promotion of sustaining memberships from private sector and governmental agencies in accordance with criteria established by the Society. The committee maintains liaison with all Sustaining Members and their representatives to ensure that they are kept abreast of Post activities and to encourage their active participation in Post sponsored events. The membership committee also actively promotes participation of uniformed services and public sector employees in the SAME organization.

Membership Committee Chair:
Dave Cook, P.E.
Cook Consulting, Phone: 530-558-5697, E-mail: cook931@me.com
Opportunities to Get Involved (cont.)

► OUTrACH AND COMMUNICATION COMMITTEE: The communication committee is responsible for maintaining strong communication ties between the Sacramento Post Board of Directors and its membership. The committee emphasis is placed upon establishing and maintaining communication with all Post members via Post web site and e-mail announcements. The committee is also responsible for maintaining an up to date web site for the Post and e-mail distribution list, as well as the Post’s quarterly newsletter.

Outreach and Communication Committee Chair: Mr. Steve Herrera, P.E.
HDR, Phone: 916-817-4964, E-mail: steven.herrera@hdrinc.com

► PROGRAM COMMITTEE: The program committee is responsible to consider, plan and prepare programs for Post meetings and activities. The committee selects programs that are of high quality and of such nature as to promote professional development for our membership. The committee is responsible to schedule and arrange details of all events sponsored by the Sacramento Post with thoughtful consideration given to variety, interest and timely appeal to the engineering and construction community.

Program Committee Chair:
Tom Chapman, P.E.
HNTB Corporation, Phone: (916) 380-3928, E-mail: tcchapman@HNTB.com

► SCHOLARSHIP COMMITTEE: The scholarship committee is responsible for actively seeking applications from qualified students in high schools (seniors), junior colleges, and 4-year colleges for scholarship awards. The committee establishes guidelines for scholarship awards, including the number of awards and the dollar amounts for each category, and evaluates applicants based on these guidelines. The committee then makes recommendations to the Board of Directors for the award recipients. The committee has an annual budget approved by Board of Directors.

Scholarship Committee Chair:
Guy Graening
Brown and Caldwell , Phone: (916) 853-5385, E-mail: ggraening@brwncald.com

► WELCOMING COMMITTEE: The welcoming committee is responsible for greeting Post members at all scheduled Post functions including regular luncheon meetings and special events. The committee is also responsible for the collection of member payments for these activities as well as obtaining door prizes or other special purchases as may be required.

Welcoming Committee Chair:
Ms. Sharol Moore
Cardno Entrix, Phone: 916-923-1097, E-mail: sharol.moore@cardno.com

► YOUNG MEMBER AFFAIRS: The young member affairs committee is responsible for promoting and developing Post activities which are of interest to the younger members and encouraging the participation of young members in Post activities. This committee sponsors the Annual Young Members Forum at Sacramento State University and UC Davis.

Young Member Affairs Committee Chair:
Mike Conrad
Sapper West, Inc., Phone: (916) 736-2267, E-mail: mconrad@sapperwest.com
The post had a decrease in membership due to the expiration of some key companies and agencies and therefore the representation membership. It is assumed that the renewal process is in motion and that these memberships will be reinstates.

Sacramento Post membership roster as of Sept 2, 2012 was as follows:

**Individual Members:** 196 (baseline of 210)

**Public Sector Individual Members:** 93

**Company and Agency Representatives:** 459 (baseline of 439)

**Public Agency Representatives:** 10

**Total Members:** 655 (started with 649)

**Total Public Sector Membership:** 103 (baseline of 83 provided by National)

**Student Members:** 53 (started with 75)

**Representative Members (REP)**

We currently have 459 REP members relative to the baseline for the year of 439.

The new REP (Member Firm Representatives) members for September is:

Mr. Eric Rowney, MWH

The individual membership has a baseline of 210. Total individual membership now stands at 196. Individual membership continues to increase slowly.

**New individual members for this past month, private and public are:**

- Mr. Hans Korve, P.E.
- Mr. Thomas Rudd, P.E.

**Membership Streamer**

Total membership is now up by 6 members relative to the baseline. Prospects are very positive for another membership streamer for the post.

**Student Members**

We have 53 student members in the database. New applications from the scholarship awards were submitted 2-3 months ago.

Please welcome Alta Vista Solutions, Tepa LLC, and Woodward Drilling Company to our post if you are given the chance.

See next page for the current list of sustaining member firms.
The current list of sustaining member firms is:

AECOM
AHTNA Engineering Services, LLC
Ahna Government Services Corp.
Alta Vista Solutions, Inc
AMEC
Andregg Geomatics
ARCADIS/Malcolm Pirnie
Atkins
Battelle
Bay West, Inc.
Black & Veatch Special Projects Corp.
Blackburn Consulting
Blaine Tech Services, Inc.
Brown and Caldwell
Burleson Consulting Inc.
Burns & McDonnell
CA. Department of Water Resources (new this month)
Cabrera Services, Inc.
Cardno ENTRIX
Cardno TBE
CDM Smith
CH2MILL
City Light and Power, Inc
Collins Engineers Inc.
Dewberry
DI Aggregate Management, LLC
ECC
ECORP Consulting Inc
Element Engineering
Em-Assist
EMCOR Services, Mesa Energy Systems
Engineering/Remediation Resources Group (ERRG)
Envirocon, Inc.
Environmental Resources Management (ERM)
EOD Technology Inc.
ESA
FMJ Marketing
Forsgren Associates, Inc.
Fugro Consultants Inc.
Gannett Fleming Inc.
Genterra Consultants, Inc.
Geocon, Inc.
GHD, Inc
Hammel, Green, and Abrahamson, Inc.
Hatch, Mott, Macdonald
HDR
HNTB
Howe Electrical Construction Inc
HydroGeoLogic Inc.
ICF International
ITSI Gilbane
J. M. Waller Associates, Inc. (new this month)
Jacobs
JF Jones Company
Kennedy/Jenks Consultants
Kiewit
Kleinfelder
Magnus Pacific Corporation
Marsh Creek LLC
Mead & Hunt, Inc.
MGE Engineering, Inc.
Michael Baker Corporation
Miyamoto International
MWH
Nichols Consulting Engineers
Nyno & Moore
Nordic Industries Inc.
Northgate Environmental Management, Inc.
Parsons
Parsons Brinckerhoff
PHA, Inc. Design-Build
PIKA International
Pomas
Ramsey North, Inc
Robert Heinen Consulting Engineers
Rolf Jensen & Associates
Salaber Associates, Inc.
Sanders & Associates Geotechnical Engineering, Inc.
Schweitzer Engineering Labs
Science Applications International Corp.
Shannon & Wilson Inc.
Site Work Solutions, Inc.
Spectrum Services Group, Inc.
Stanley Consultants Inc.
Stantec, Inc.
Suulutaaq, Inc.
Swinerton Builders Government Taber Consultants
Teichert Construction
Tepa, LLC
TerraneaPMC, LLC
Terraphase Engineering, Inc.
Tetra Tech, Inc.
The Dutra Group
The Louis Berger Group, Inc.
The Shaw Group, Inc.
The Stahl Companies, Inc.
The Westmark Group
The Whiting Turner Contracting Company
Towill, Inc.
Trihydro Corporation
Turn-Key Construction Services, Inc.
URS Corporation
Versar
Vista Environmental Consulting, Inc.
WEST Consultants, Inc.
Westervelt Ecological Services
Weston Solutions, Inc.
Whitney-Stone, Inc.
Wildlands
Wood Rodgers, Inc.
Woodward Drilling Company, Inc.
Woolpert, Inc.
Yerba Buena Engineering & Construction Inc.

For any questions or comments about the newsletter, please call Nathan Rockwood at 916-971-3961 or email at nathan.rockwood@meadhunt.com