SAME Sacramento Post Welcomes COL William Leady, USACE Sacramento District Commander

By Vida G. Wright, Ph.D., P.E., F. SAME

SAME Sacramento Post Membership & Welcoming Committee Chairs (Principal, Veridico Group, Inc.)

SAME Sacramento Post is pleased to welcome COL William Leady and his family to the Sacramento area. COL Leady assumed the command of the U.S. Army Corps of Engineers (USACE) Sacramento District on July 27, 2010. He succeeds COL Tom Chapman who served as the USACE Sacramento District Commander from July 2007 to July 2010. COL Chapman served as the SAME Sacramento Post President from May 2008 to May 2010. After three decades of a distinguished Army career, one which is marked by dedicating his life to serving our nation, COL Chapman has retired from the US Army. COL Chapman and his family have selected to remain in the Sacramento area. Therefore, we are pleased that the Sacramento Post will continue to benefit from COL Chapman’s wonderful leadership and his steadfast support of SAME in the role of SAME Sacramento Post Past President.

Since graduating from the U.S. Military Academy, COL Leady has had a distinguished and remarkable career in the US Army. His previous assignments have included the Deputy Commander of the 555th Engineer Brigade and as a staff officer at I Corps Headquarters at Fort Lewis, Wash., deploying with the Brigade in support of Operation Iraqi Freedom. He also served as the USACE Detroit District Commander. COL Leady holds a Bachelor of Science degree in mechanical engineering from the U.S. Military Academy, and a Master of Science degree in environmental engineering from Purdue University. COL Leady and his wife, Melissa, have three children.

COL Leady is a strong supporter of SAME and previously served as the Detroit Post President. SAME Sacramento Post has benefited from the outstanding support of USACE Sacramento District Executive Leadership for over a decade. This support has enabled the Sacramento Post to become a growing, thriving and philanthropic Post that has succeeded year after year to fully support SAME’s mission of promoting the engineering profession, strengthening public-private partnership, supporting our troops and their families, and reaching out to our local community. Sacramento Post annually provides upward of $40,000 in scholarship to high school and college students with emphasis on reaching out to young men and woman from under privileged families. We look forward to COL Leady’s leadership, support, and participation in the Sacramento Post sponsored events and activities. We also hope COL Leady and his family will enjoy living in beautiful Sacramento and are able to enjoy all that northern California has to offer.
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This year’s tournament was held on June 21st 2010 at the Teal Bend Golf Course, with Chris Smith (Ahtna) and Mike Dryden (TestAmerica) as co-chairs, and Olivia Huang (Ahtna) as coordinator. This has been the 9th year running for Smith and Dryden since they began co-chairing the tournament back in 2001. Their common goal has always been to generate more funds to help support scholarships for local students who are interested in engineering or the physical sciences and to have fun doing it. The income generated from the golf tournament this year, as it was in previous years, was included in the SAME Sacramento Post’s general scholarship funds and recently scholarships were distributed ranging from $1000 to $4000, to high school and college students from the Sacramento region who possessed an interest in pursuing studies in engineering or related technical fields. These students have not only demonstrated excellent academic performance but were also active in extracurricular and volunteering activities, as well as possessing various other credentials.

With the goal of placing more quality professionals into the future workforce, Smith and Dryden strived more than ever for participation and sponsorship from SAME Sacramento Post members. And SAME members responded generously by way of increased participation and sponsorship for the year 2010. With a near-capacity of 137 golfers and 29 sponsors, the tournament generated close to $33,000 in revenue. Some of the sponsors that deserved special recognition for their extra generous contributions: HDR and Jag Construction for their $2,000 level Gold sponsorships; Brown & Caldwell, Contractor Services Group, Magnus Pacific, and Martin Brothers Construction for their $1,000 level Silver sponsorships; and ARCADIS and Meier for their $500 Food sponsorships.

A big thank you, (indeed,) to all 2010 participants and contributors, as well as all the volunteers. The 2011 golf tournament is in the works now with a new profit goal of $17,000. Although the new goal is the most ambitious ever, Smith believes that it was “all about having fun while doing something worthwhile.”

Joint Federal Project at Folsom Dam

By Kristine Des Champs (Bureau of Reclamation)

One of the ongoing projects that was discussed during the SAME July General Meeting was the Joint Federal Project at Folsom Dam. The Folsom Dam was originally built by the U.S. Army Corps of Engineers (Corps) and transferred to the Bureau of Reclamation (Bureau) in 1956. The limitations of the existing system and the need to address both flood risk and dam safety issues resulted in a joint project between the Bureau, the Corps, Sacramento Area Flood Control Agency (SAFCA), and Central Valley Flood Protection Board (CVFPB).

The objectives of the Joint Federal Project (JFP) are to reduce the risk of catastrophic flooding in the Sacramento metropolitan area and address the dam safety hydrologic risk by passing the Probable Maximum Flood. The JFP consists of an auxiliary spillway, including: (1) a 1,100 foot long approach channel; (2) a control structure containing six submerged tainter gates; (3) a 3,000 foot long spillway chute; and (4) a stilling basin that acts as an energy dissipater. The control structure will operate in conjunction with existing spillway gates on Folsom Dam to manage the flood flows from Folsom Reservoir. The total authorized cost of the project is $919.4 million which is divided into work packages consistent with each agency’s mission objective- dam safety and flood damage reduction. The excavation of the spillway will be performed by the Bureau and the Corps will construct the control structure, spillway chute, stilling basin, and excavation of the approach channel. The design has utilized joint design and construction teams, as well as issues specific working groups.

The excavation of the spillway is scheduled to be completed this fall and the construction contract for the control structure will be awarded at the end of September. The construction of the control structure is scheduled to take 45 months and will be followed by separate contracts for the construction of the chute & stilling basin and approach channel. At the completion of the project approximately 3.5 million cubic yards of earth will be excavated, 26 million pounds of steel used, and 350,000 cubic yards of concrete placed. The new spillway will be capable of handling 312,000 cubic feet of water per second(cfs) increasing the total peak dam discharge to 862,000 cfs.
SAME Sacramento Post Newsletter  The Society of American Military Engineers

SAME EVENTS

Sacramento Kings Military Appreciation Night

By Casey Holland, SAME Sacramento Post Director (CH2M Hill)

Every year, the Sacramento Kings dedicate one of their games to men and women in uniform who serve our country. Last year, the Sacramento Kings military appreciation night was held in April and the Sacramento Post participated in this event by inviting military members and their families to a fun filled match between the Sacramento Kings and the Portland Trail Blazers. Supporting our military members and their families is one of SAME’s core missions. The Post participation in an event such as the Sacramento Kings military appreciation night is a way for us to thank our men and women in uniform by allowing them to participate in a post sponsored activity with their families.

After such a great turnout and positive feedback from the service members who attended last year’s event, the Sacramento Post Board of Directors voted to make Sacramento Kings military appreciation night an annual event. This year the Post has purchased 100 tickets for the Sacramento Kings military appreciation night on November 10, 2010 against the Minnesota Timberwolves. Our group has been invited by the Sacramento Kings to take part in the game’s Opening Ceremony. The Sacramento Post will be offering half of the tickets to service members and their families from Travis Air Force Base, Beale Air Force Base, and the National Guard. The remaining tickets are available for purchase by the Sacramento Post members at cost, so our members can also participate in this fun event. Anyone interested in purchasing tickets, should contact Casey Holland via e-mail at Casey.Holland@CH2M.com or phone at 916-286-0245 Ext. 34245. Thanks to everyone who has invested their time in making this a great event that allows us to express our gratitude to those men and women who have made the decision to serve this great country.

Engineering Camp Is Unique Hands On Experience For Mesa High School Students

By Jean Crowder, MESA Director

Two local high school students in the Mathematics, Engineering, and Science Achievement (MESA) program participated in a national engineering camp through the sponsorship of The SAME Sacramento Post and learned firsthand about the field of engineering.

Tyrone McKenzie of West Campus High School and Summayyah Wiggins of Monterey Trails High School in the Elk Grove Unified School District (EGUSD) received “full rides”, with all expenses paid, to attend the Society of American Military Engineers (SAME)/Army Engineering and Construction Camp at Vicksburg, Mississippi and engaged in hands-on engineering and construction activities that gave them a broad exposure to the profession. Forty students attended each camp session, which included international participants. McKenzie attended the camp in 2009 and Ms. Wiggins was selected to participate this past summer. For Ms. Wiggins, this also presented a first time airline trip.

“This was the most exciting adventure that I have had,” Ms. Wiggins stated. “Taking my first ever airplane trip and pairing up with students from across the globe gave me a firsthand definition of a global community, especially with the emphasis of successfully working together as a team”, she said.

Steve Crane, a Director of the Sacramento SAME Post, commended both students as exemplary representatives of the Sacramento region.

“Both Tyrone and Summayyah had to compete with some of the brightest students in the nation and they not only were selected on the merit of their applications and accomplishments, but also for their expressed interests in becoming future engineers,” Crane stated. “Ms. Wiggins was the only participant selected from California,” he said.

The importance of the student’s participation in the camp was noted by engineering leadership at both Sac State and UC Davis Schools of engineering.

“It is becoming increasingly evident that America must step forward in developing students with the potential to become engineers by providing meaningful educational opportunities to learn firsthand in their precollege years, if we are to regain our place in innovation and technological excellence for the future,” said Emir José Macari, Dean of Engineering and Computer Science (ECS) at Sac State University. “MESA does that and with the outstanding support of professional organizations like SAME, students have a once in lifetime chance to experience success as emerging professional engineers”, Macari added.

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Dr. Jean VanderGheynst, Associate Dean of the College of Engineering at UC Davis cited the importance of MESA including girls in early educational opportunities related to the field of engineering.

“Our projected lives, in terms of engineering discoveries and advances that will change the world as we know it, will not be gender based – we must prepare girls to become leaders in the field of engineering and provide them with equal opportunities for success in the field”, VanderGheynst said.

Both students stated that they benefited directly from their participation in MESA as well as in the engineering camp at Vicksburg. McKenzie recently graduated from high school and is now a freshman engineering major at Sac State enrolled into the MESA college level program (MEP).

Ms. Wiggins has changed her class schedule to include honors classes and is looking forward to taking a lead role in encouraging other students to become active in MESA based programs, particularly female students like herself.

The Sacramento State/UC Davis MESA Center prepares educationally disadvantaged college bound students for admission into 4-year colleges and careers with a science, technology, engineering and mathematics (STEM) emphasis.

**2010 SAME Annual Service Awards Program**

By Cherrie Danoff, SAME Awards and Recognition Committee (FP Construction, Inc.)

The Sacramento Post Awards and Recognition Committee will accept nominations for the 2010 Annual Service Awards described below beginning on 1 October 2010. Nominations will close on 30 October 2010. A selection committee will convene in late November (please contact Cherrie Danoff if you would like to serve on this committee) to select the winners and the awards will be presented at the Annual Christmas Party on 16 December 2010. Please retrieve the nomination form by clicking on the link provided on theSAME Post website and E-Mail a completed electronic copy of the nomination to Cherrie Danoff at cherrie@fpconstructioninc.com by 30 October 2010.

1. **Sacramento Post Distinguished Service Medal**- Individuals who have exhibited outstanding leadership and accomplishments in support of the Sacramento Post’s mission continuously for at least 3 years are eligible. The Sacramento Post winner will be nominated for the Walter O. Bachus SAME National Gold Medal if eligible. Please note that the length of continuous service required for nomination for the national award is 10 years.

2. **Sustaining Member Firm of the Year Award**- The Sustaining Member firm whose company representatives are most actively involved in leadership positions on the Sacramento Post Board and Committees, that most actively supports Sacramento Post Conferences and events through sponsorships, exhibits, and advertising, that supports Young Member participation in Society activities and mentoring programs, and supports K-12, College Outreach and community service activities. Sustaining Member Firms nominate themselves for this award. The Sacramento Post Winner will be endorsed for the JW Morris SAME National Award if eligible. The National Award utilizes the same criteria for participation in multiple posts.

3. **Young Member of the Year Award** - The Young Member (under 36) who has exhibited outstanding leadership and accomplishments in support of the Sacramento Post and Society Mission over a continuous two year period of membership in the Society. The winner will be nominated for the SAME National Young Member Medal. Please note that the length of continuous service required for nomination for the national award is five years.

**Computer Donations Needed**

By Jean Crowder, MESA Director

Goal: To provide middle school program level MESA Academies (up to 30 students) (and MESA Period) with functioning technology in the effort to 1) increase student's understanding and use of computer based technology; 2) provide technological links to Science, Technology, Engineering or Math based curriculum; 3) get students and teachers engaged in STEM via on-line links; 4) allow students to participate in technology based MESA Day competitions (i.e. - Microsoft Web Design Competition).

Equipment Requested: Desk top computers; computer monitors; laser printers.

Number Required: MESA will gratefully accept all donations/contributions towards this goal.

Contact: Jean Crowder/Director @ jcrowder@csus.edu or (916) 278-4653

Resource: http://library.thinkquest.org/07aug/01690/computer.jpg
Sacramento Readiness Center

By CPT Brian Winzer, (California National Guard)

The first thing that comes to mind when you walk into the new Sacramento Readiness Center is “This sure isn’t like the armory my father drilled at.” The new building on Okinawa St., adjacent to the Army Reserve base at BT Collins, stands over 50 feet high and encompasses more than 100,000 square feet. Walking through the front door, soldiers are greeted by an expansive drill floor flooded with natural light from the large skylights above. Six units will call the new building home, and at their disposal they will have a new gym, a large kitchen, six multi-use classrooms, recruiters and family readiness offices, and a locker room that will house lockers for every individual soldier that drills at the facility. The amenities also include a joint-use break room, library and an amphitheatre that seats 60. Meticulous planning ensured that everything incorporated into the new building would help the National Guard, and ultimately the Soldier, accomplish the mission.

Design of the Sacramento Readiness Center and its adjacent FMS began in 2004. URS Consultants was charged with coming up with a design that would meet all of the soldiers needs but also stand out as a structure that would set it apart from previously built armories. What resulted from this design flexibility is the unique work of art that stands there today. Four years after the first meeting to design the building, construction began, and 15 months after that it’s nearly complete. The vision of the CA ARNG facilities staff, the creativeness of the architect, and the diligence of the builder have finally come to fruition and soon the new building will be turned over to the soldiers who will take full advantage of it to train and prepare for whatever comes next.

One function of the new building is to serve as the new home of the California medical detachment, currently drilling at a complex of trailers at Mather VA Hospital. New functions being built into the Readiness Center for the Detachment’s mission include the ability to conduct vision and hearing exams, take dental x-rays, conduct patient interviews and screenings, and perform medical and dental exams. Significant effort was put into creating a space that would allow the unit to execute its mission to the fullest and take care of the soldiers that take care of us.

Another great feature of the new building is the large locker room which is nearly twice the size of the drill floor and accommodates large lockers for every single soldier drilling with any of the six units at the Readiness Center. Since soldiers now sign for their organizational equipment (OCIE) directly from the state, supply sergeants are relieved of the burden of having to manage soldier’s gear that was issued directly from state CIF. Across the drill floor from the locker room is the kitchen which is truly a chef’s dream. At more than 2,000 square feet, it is the largest at any readiness center in the state. It includes every amenity a cooking staff would need and offers the guard the ability to prepare meals for drilling guardsman or anyone else deemed necessary.

All of the modern features of the building stem from the idea that flexibility is key and the building needs to accommodate the dynamic mission of the National Guard. When the ribbon is cut and the building is handed over to its new tenants, it’s very possible that most of them will be units not intended to be stationed here when originally designed. Flexible design allows the stationing committee to assign any unit of similar size to move in. New readiness centers are now plug-and-play like the modular forces they support. As a model for future facilities, soldiers and their leaders can rest assured that when they go to drill at the new Sacramento-­Okinawa Readiness Center, they can focus on their mission and their training, not the building they work in.

Beale Air Force Base’s Ribbon Cutting Ceremony

By 2nd Lt. Nicole White 9 RW Public Affairs

The 548th Intelligence, Surveillance and Reconnaissance Group conducted a ribbon-cutting ceremony to celebrate the opening of the Distributed Ground System-2 building addition on Aug 25.

The construction of the facility began in October 2007 and was turned over to the Air Force in June of this year. Col. Jenny McGee, 548th ISR Group commander, opened the ceremony with remarks about the new facility. "The new state-of-the-art facility enables significantly more life-saving support to those in harm's way, be they in armed conflict or in a humanitarian disaster, whether across the world—say, in Afghanistan; in our own hemisphere—in perhaps, Haiti; or even in our own state of California—during wildfires," said Colonel McGee.

Before they could make the move into the new building, members of the 548th ISR Group had to disconnect and reconnect 1,500 computer monitors, 1,500 workstations and 140 printers. They relocated 265 servers, 300 workstations and cut, traced and mapped 235 miles of fiber optic cable. "We relocated the weapon system and continued to execute operations globally," said Colonel McGee. "We achieved that with no delays and only 10 hours of complete mission downtime."
Colonel McGee said the whole move was made possible because of the hard work of the total force team, which included the Air National Guard and Air Force Reserve.

The 548th operates the $1 billion DGS-2 and Optical Bar Camera processing and exploitation components of the Air Force Distributed Common Ground System. This includes exploitation and dissemination of near-real-time U-2, Global Hawk, Predator and Reaper imagery and signals data to provide actionable, fused, all-source intelligence to theater, joint force and combatant commanders.

Colonel McGee said it was imperative the mission continue; therefore, the unit sent approximately 75 mission crew members to other DGS sites around the country and overseas to work DGS-2 allocated missions remotely. "At one point, DGS-2 personnel were working simultaneously from five locations around the world," said Colonel McGee. "Overall, we delivered more than we were tasked to do."

The building's addition greatly enhances the 548th's mission. The DGS-2's mission capacity is anticipated to expand by approximately 40 percent, a workload shared by the total force team.

Along with Colonel McGee, Lt. Col Andrew Kiger, deputy director of the Army Corps of Engineers, Sacramento District, Lt. Col Mark Shoviak, 9th Civil Engineer commander, Mr. Craig Hubbard, deputy 9th Communications Squadron Commander, Mr. Matt Alix, representing KOO Construction, and Airman David Royer, the most junior Airman of DGS-2, conducted the ceremonial cut.

MEMBERSHIP HIGHLIGHT - Hillary Richards

Five Long but Short Years

By Capt Hillary Richard, P.E., USAF

When I started basic training at the Air Force Academy I had NO IDEA what I was getting into. I was 17, just out of a small town high school, thought I wanted to fly planes, and I had no military family or friends to ask what it would be like. I expected it to be tough, but I was raised to never quit something once I had started. So began my journey wearing our country's uniform.

As most college kids do, I became more educated about the realities of my “dream”, and flying for the military was no longer something I wanted to pursue. Instead I found my talents leading toward mechanical engineering, which then led to becoming a civil engineering officer at Beale Air Force Base.

My first year on active duty was filled with training, but it wasn't long until it was my turn to visit Southeast Asia. I was apprehensive as it would be my second time ever leaving the U.S., but the six months spent in Manas, Kyrgyzstan ended up being a lot of fun.

Manas was one of those locations that people envied and said, "that's not a REAL deployment", as we went off base wearing civilian clothes going shopping, horseback riding, hiking, fishing, and to numerous restaurants to try the local cuisine. The best experience was getting involved with the village outreach program where I organized off-base trips to Jany-Jer. Each week we played soccer and card games with the kids and helped the mayor accomplish a project or two that had been a long time waiting. Being engineers, our group constructed metal benches around the soccer field as the wooden ones that used to be there had been dismantled for firewood. Interacting with these people that were doing all they could do to survive, let alone try to "prosper" as we do here, really opened the eyes and hearts of our Airmen and for that I couldn't have asked for more.

From Kyrgyzstan I returned to Beale for ten months and then headed back out to Bagram, Afghanistan, where I saw what the other side of deploying was all about. We endured bi-weekly rocket attacks and fortunately only saw one fatality. We endured constant aggravation of working with Afghani contractors who cared nothing for project timelines.
MEMBERSHIP HIGHLIGHT

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We endured the guilt of forcing our Army brethren to continue to live in unprotected tents as we couldn't get dorms built fast enough. And as always, we found our own ways to cope with being away from loved ones. Skype was a blessing, along with the secret kitchen areas we found to cook brownies, and work was always available to keep us busy. Overall, Afghanistan has been the most challenging part of my military career, but it also gave me the opportunity to work with some of the best people I’ve ever met.

As I approach the end of my fifth and final year, I look back and wonder where all the time went. Counting the days until coming home was the only way to get through being deployed, but now I look at a calendar and the weeks and months are flying by! I know I'm ready to see what's out there in the private sector, but it will still be a bittersweet ending to this journey. I will leave with the deepest respect for those who have dedicated any portion of their lives to military service, and that is a brotherhood and sisterhood that will not be forgotten.

MEMBERSHIP HIGHLIGHT - Membership Report

Membership Report

Dr. Vida G. Wright, P.E., F. SAME Sacramento Post Membership Chair & SAME Fellow(Principal, Veridico Group, Inc.)

SAME Sacramento Post continues to experience growth in its individual and sustaining memberships. The membership growth focus in the Sacramento Post as well as at SAME National remains increasing membership, participation and involvement from our uniformed services including Army, Navy, Air Force and National Guard.

Sacramento membership roster as of September 1, 2010 as follows:

Individual Members: 194
Sustaining Member Reps: 408
Total Members: 602
Sustaining Member Firms: 106

Sacramento Post Sustaining Member Firms are:

4 Leaf, Inc.
AECOM
AGS, Inc.
Abtra Engineering Services, LLC
Abtra Government Services Corp.
Air Toxics Ld.
Allied Industries Inc.
Alpha Analytical Inc.
AMIC
Andrag Geomatics
ARCADIS
Ayres Associates
Batelle
Bay West, Inc.
Blackburn Consulting
Blaine Tech Services, Inc.
Brown and Caldwell
Building Solutions Inc.
Burleson Consulting Inc.
Cabernet Services, Inc.
CAPE
Carlton Engineering, Inc.
CDM
CHEMIBILL
Collins Engineers Inc.
David Evans & Associates Inc.
DLR GROUP

JF Jones Company
Jonas and Associates
Kennedy/Jenks Consultants
Kiewit Federal Group
Kleinfelder, Inc.
Lionakis
MACTEC Engineering and Consulting Inc.
Mugan Pacific Corporation
Malcolm Pirnie Inc.
Murdie Creek LLC – Roseville Office
Murdie Creek, LLC – Anchorage Office
Mead & Hunt, Inc.
MGE Engineering, Inc.
Michael Baker Corporation
MWH
Network Environmental Systems
Niryo & Moore
Parsons
Parsons Brinkerhoff
PBS&J
PIKA International
Pisumas
Ramsey North, Inc
RBF Consulting
Robert Heinen Consulting Engineers
Rolf Jensen & Associates
Salaber Associates, Inc.

For membership information, please contact Sacramento Post Membership Chair, Dr. Vida Wright via phone at 916-865-4170 or e-mail at vida.wright@veridicogroup.com.