



Capital Branch



Central Valley Branch



Feather River Branch



Shasta Branch

March 2009

The Engineerogram

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Sacramento Section Announces the Formation of the Sustainability Committee

by Fareed Pittalwala, P.E.

The Sacramento Section is pleased to announce that we have a new committee that is active and pursuing an aggressive agenda this year. Led by Robert Roscoe, General Manager of the Sacramento Suburban Water District, the committee is initially focusing on achieving some early successes, and is using as a reference the report prepared by the ASCE/TAC Committee on Sustainability titled "Sustainability Guidelines for ASCE Sections, Branches and Student Chapters" to guide initial activities. Current activities include: working with the Section Awards Committee to establish criteria for an annual Sustainable Project of the Year, and a Sustainability Person of the Year; outreach to the branches and student chapters in the Sacramento Section; and scheduling presentations on sustainable projects at section, branch and student chapter meetings.

It is expected that the Committee will also soon focus on arranging tours of LEED Certified green buildings presently under construction, and tours of other sustainability-themed projects within the Section. In addition, the committee will jointly host a Symposium on *Sustainable Water Resources* with the Section's Environmental and Water Resources Institute, tentatively scheduled for July 9, 2009. With the passage of State Assembly Bill 32 on greenhouse gas reductions, and the Governor's declaration of a drought emergency in many of the State's southern counties, promising topics for joint programs include water supply sustain-

ability issues in the Sacramento-San Joaquin Delta, and design considerations for a carbon neutral water desalination facility in Carlsbad.

In keeping with the Committee's theme, meetings are held by conference call on the fourth Monday of every month. For more information, and to get involved, please contact Robert Roscoe at RRoscoe@sswd.org.

Local Engineer Receives National Award

by David Wilson, P.E.



President Klotz (R) congratulates Brian Brown (L)

ASCE, at the National Society level, recently selected our Capital Branch Past President, Mr. Brian A. Brown, P.E., CFM, as the recipient of the 2008 *ASCE Citizen Engineer Award*. The award was presented to Mr. Brown by National ASCE President, Mr. D. Wayne Klotz, P.E., D.WRE, F.ASCE at the President's Luncheon during the recent Multi-Region Leadership Conference of the American Society of Civil Engineers.

This award is presented to members of the American Society of Civil Engineers in recognition of their accomplishments in the area of public service. The award recognizes individuals who have become known to their community as a result of the efforts that they have expended as volunteers, who have significantly influenced local public policy or legislative affairs, and whose activities have improved the image of the civil engineering profession.

Mr. Brown's significant public-service accomplishments, along with the local media coverage he has drawn for ASCE, are indeed praiseworthy. By mentoring in the Future City Competition, providing math tutoring, fundraising for the Make-A-Wish Foundation, and all of his other volunteer activities, he has made a difference in the lives of people around him, and is a shining example for our profession. To head the ASCE charity golf tournament for 3 years with record donations, and to be president of the Capital Branch at such a young age, is commendable.

The Capital Branch is extremely proud of Mr. Brown, and we congratulate him on this award from the National President of ASCE.

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LEGEND
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Additional Section Staff
Region 9 Officers
Branch Officers who are not Section Voting Officers
YMF Officers
Committee Chairs
Universities
Conference Chairs
Institutes

For more ASCE activities if you wish to be active in a committee, career opportunities, complete text for the legislative activities, go to the Sacramento Section web site at www.asce-sacto.org, or contact a current officer. To MAKE CHANGES OR RENEW YOUR MEMBERSHIP, go to website: www.asce.org. For MEMBERSHIP APPLICATIONS, please e-mail to memapp@asce.org.

President's Column

by Fareed Pittalwala, PE
President, Sacramento Section



From the Desk of the President

During this year's National Engineer's Week activities, our local and statewide ASCE members banded together to promote and celebrate our profession. The week's festivities started with our annual Engineer's Day at Sunrise Mall on Saturday, February 21st, where our ASCE leaders Joyce and Craig Copelan brought the concepts of civil engineering

to the public, particularly the numerous grade school and high school students who stopped by. For these students, the education on the various engineering professions available, how civil engineering fits into the larger picture, and the opportunity to participate in hands-on engineering activities was invaluable.

This year ASCE used a new engineering activity which involved putting together units of foam which formed a catenary arch. This activity has proven to be a fun, and very popular educational activity in the National Building Museum in Washington, DC, and in science and engineering museums across the country. Furthermore, Engineer's Day at the Mall was an opportunity to get various professional societies together. ASCE teams up with Engineers Without Borders (EWB), the Structural Engineering Association of California (SEAOC), the Institute of Electrical and Electronic Engineers (IEEE), the Society of Women Engineers (SWE), the Society of American Military Engineers (SAME), Professional Engineers in California Government (PECG) and other organizations to put on the event.

Later in the week, statewide Civil Engineers participated in Region 9's Infrastructure Symposium and Legislative Day activities, which brought together numerous experts, public officials and consultants from all sectors of our profession to discuss today's relevant infrastructure issues. ASCE leaders swept out in force across the capitol building to meet with legislators to continue to push the agenda for further funding of capital improvement projects throughout the state.

Finally, on the night of February 25, the Sacramento Section held its annual Engineer's Week Award Banquet at the Delta King Hotel in Old Sacramento. I was pleased to share with the fellow professionals and honored guests in some of the achievements of civil engineers here in the Sacramento Region. During the evening we honored our new ASCE Life Members, New ASCE Fellows, some of our nationally recognized award winners, a number of student awards, and our local project-of-the-year award winners.

This has been quite a year for civil engineers in our nation and our state, and we have seen our profession thrust to the forefront of politics and public interest. I've seen my colleagues step up to the challenge time and time again, putting forth our collective expertise, shifting public policy, and gaining the trust of our fellow citizens as professionals and experts. The result, as you all know, is a nationwide renewed interest in our infrastructure, and the dawn of the Civilization Engineer, to borrow a term from our Society's President. We are at the forefront of the public's attention these days, in front of cameras on the evening news, on National Public Radio, and being quoted in the Sacramento Bee. I am proud to be among you, and look forward to our collective continued success.

Capital Branch Seeks Candidates for New Board Term

by Brian A. Brown, P.,E., CFM

The Capital Branch is seeking officer candidates to serve for the 2009-2010 term. The board serves for a term of one year, starting annually in October. The positions open for election in the coming year are:

- Secretary
- Treasurer
- Vice President of Education
- President Elect

The President Elect position is a 3-year term, where the candidate advances to Branch President, and then serves as Past president.

All interested candidates must submit a candidate statement to the Nominating Committee. The candidate statements should include the education/background of the candidate, along with their goals to benefit the Branch and its constituents. Candidate statements must be no more than 175 words long and must include the candidate's name, title and position sought. Any words after 175 will be cut off and not considered. This is to give each candidate an equal opportunity to express themselves both to the Nominating Committee and the Branch as a whole.

The Nominating Committee, made up of 5 Capital Branch Past Presidents, will review and present all candidate statements to the Capital Branch Board at the May Board meeting. The ballot of candidates selected will be sent to the Branch members in June.

The Capital Branch has recently adopted new by-laws, adopted an annual planning calendar, and has written a policy and procedures manual to decrease the learning curve for new Board members. The Branch has also increased their service activities, continues to coordinate monthly luncheons, and strives to find new ways to serve branch members. If you wish to be part of the board that serves and acts as the face of ASCE in the Sacramento region, please e-mail Brian Brown at brown@ford-consulting.com

ASCE, Sacramento Section Project of the Year Awards Banquet Recipients

The Sacramento Section of ASCE is pleased to announce this year's winners for Project of the Year. Each ASCE Institute, as well as our new Sustainability Committee, honored a local project this year from a pool of tremendous projects. Each of these projects holds merit, and highlights innovative design solutions which resulted in public benefit for our region. Congratulations to each of the project teams on this achievement.

Continued on Page 4



MASTER CALENDAR

Date(s) (Times)	Event	Location	Information
2009			
March			
Contact Benjamin Crawford for info	Central Valley Branch Meeting	Seniors First, McFall Center Hall, 224 South Sutter Street, Stockton	Benjamin Crawford, 209-522-6273 x11 benc@blackburnconsulting.com
Contact Haakon Ogbeide for info	Shasta Branch Meeting		Haakon Ogbeide 530-229-3388 Haakon.Ogbeide@ch2m.com
Wednesday, 4th 5:30 p.m.	YMF Social Bowling, Page 7	Country Club Lanes	Please see YMF Newsletter www.sacymf.org
Friday, 6th	Sacramento State Career Fair	CSU, Sacramento	Cici Mattiuzzi, cici@csus.edu http://www.ecs.csus.edu/career
Thursday, 19th 6:00 p.m.	Engineers Without Borders Meeting	CDM: 2295 Gateway Oaks Drive #240, Sacramento CA 95825	Contact: Ilana Cohen, coheni@cdm.com
Wednesday, 11th 6:00 p.m.	Feather River Branch Meeting, Pages 8 & 9	Marie Callender's Restaurant in Chico	Amie McAllister - amie.steel@gmail.com, or Shane Cummings - sdcummings@handk.net
18th - 20th 8:30 - 4:30	ASCE Seminar, Tunnel Design & Construction	Hilton Garden Inn, 2540 Venture Oaks Way, Sacramento	http://tinyurl.com/7w4t4k
19th - 20th	ASCE Seminar, Structural Condition Assessment of Existing Structures	Radisson Hotel Sacramento, 500 Leisure Lane, Sacramento	www.asce.org/conted/seminars/seminar.cfm?cat=7
20th - 21st	Sacramento Regional Science and Engineering Fair, Page 7	Rosemont High School, 9594 Kiefer Blvd., Sacramento	www.srsefair.org
Monday, 23rd 6:00 p.m.	Sacramento Section Board Meeting	RBF Consulting, 2101 Arena Blvd, Suite 250, Sacramento	Fareed Pittalwala, PE 916-928-1113 fpittalwala@rbf.com
Tuesday, 24th Noon	Capital Branch Meeting, Page 8	Sofia Restaurant, 815 - 11th St (the corner of 11th and H Street).	Capital Branch Office, 916-961-2723 asce@asce-sacto.org
April			
2nd - 3rd	ASCE Seminar, Risk Assessment in Geotechnical Engineering	Radisson Hotel Sacramento, 500 Leisure Lane, Sacramento	www.asce.org/conted/seminars/seminar.cfm?cat=3
Saturday, 25th	Rebuilding Day	TBA	David Wilson, 916-788-2884 dwilson520@sbcglobal.net
Thursday, April 30th - Saturday, May 2nd	2009 Structures Congress	Renaissance Austin Hotel Austin, TX	http://tinyurl.com/92sf73
Thursday, April 30th - Friday, May 1st 8:00 - 5:00	Leadership Development for the Engineer	Doubletree Hotel Sacramento, 2001 Point West Way	Management and Leadership www.asce.org/conted/seminars
May			
Thursday, 7th	Tec-Expo	Sacramento Convention Center	John Moore, john.moore@tec-expo.com
13th - 15th 8:00 - 5:00	HEC-RAS Computer Workshop	Radisson Hotel, 500 Leisure Lane, Sacramento	Hydraulics and Water Resources www.asce.org/conted/seminars
June			
28th - July 1st	ASCE Conference, Lifeline Earthquake Engineering, Page 10	Oakland Marriott City Center, 1001 Broadway	www.asce.org/conferences/tclee2009
July			
9th - 10th	ASCE Seminar, Pumping Systems Design for Civil Engineers	Radisson Hotel, 500 Leisure Lane, Sacramento	www.asce.org/conted/seminars/seminar.cfm?cat=4
September			
25th - 27th	Student Days	TBA	TBA; 2008 Student Days info at http://tinyurl.com/57gcmc
Conferences	Section Officer Meetings	Seminars	YMF Events
Section Meetings	Branch Meetings	Outreach Events	Student Events
Region 9 Events			

Project of the Year Award Recipients.- Cont'd from Page 3

ASCE Institute Award

- Architectural Engineering Institute Award
- Construction Institute Award
- Environmental & Water Resources Institute Award
- Geotechnical Institute Award
- Transportation & Development Institute Award
- Sustainable Project of the Year
- Coast, Oceans, Ports and Rivers Institute Award
- Project of the Year

Award Winner

- Foothill Raw Water Supply Pump Station
- Hangtown Creek Water Reclamation Facility
- City of Colusa Wastewater Treatment Plant
- East Avenue Reconstruction Project
- Route 99 Widening / Hammer Land Interchange Reconstruction
- Miners Ravine Off-Channel Detention Basin
- American River Pump Station & Restoration
- American River Pump Station & Restoration

Our Professional Associations Build and Enhance Careers

Career-building for public and private sector professionals

by Larry J. Smith, P.E., CCM, F.ASCE
President-Elect, Sacramento Section



When asked to speak to about the benefits of professional associations or tips on how to build one's career I think of advice received over 20 years ago.

"Everyone must realize that good career management comes out of your own pocket."

There will be times when you'll need to invest in your own training and development and to make the time necessary to build and sustain a promising career.

Today, too many young and old professionals are missing a great opportunity to build and enhance their careers through networking with professional associations.

As a public sector professional interfacing with public and private sector professionals and as a leader in professional groups I hear common questions and excuses for not accepting the simple advice given to me that could improve your own career:

"What's In It for Me, Membership Fees, and Time Commitment?"

"What's In It For Me?"

When first suggested that Civil Engineering students join ASCE I also wondered, "What's in it for me?" One of my college mentors Professor Grant Borg¹ was well known for his hundreds of plaques and certificates documenting his successful career. His advice was this: "Students need to belong to organizations that represent and set standards for their profession."

That advice seemed sound, so I joined the ASCE Student Chapter, thus beginning my first experience with a professional association. Students were afforded access to a small office where informal study groups were formed. Over time, networks and friendships were developed that have lasted for over 35 years.

Networking helped develop the knowledge and skills needed to be a better engineer, project manager, and leader in the community. It encouraged preparation for the EIT examination and as graduation approached it provided job opportunities and multiple job interviews.

My first job taught me that I had much to learn. Colleagues convinced me to continue working full time and to pursue a graduate degree. Graduate school was full of many full professionals and part-time students. Their "real world" experience and networking in the classroom gave our classroom experience new meaning.

An investment in higher education was just the beginning of my networking. "Networking is the infrastructure of your career"² John Doehring³ says networking "is engineering." Doehring stresses that "networking has the ability to contribute to personal and professional success." Networking builds relationships. Professional

¹Department of Civil Engineering, University of Utah

²Terry Foster, P.E., F.NSPE, professor in the Department of Construction Systems at University of Nebraska-Lincoln

³Senior Vice President at A/E Consulting an A/E and research firm

associations give you access to other professionals who may have work experience themselves.

The career path of most successful engineers follows three segments:⁴ Entry level, developing technical capabilities; Middle Management developing human relationship skills: and, Executive, providing leadership and vision for others. Professional associations teach young professionals to develop soft skills that enhance professional experience. Networking helps develop and gather information about professional practice. And finally, networking keeps us current with trends and how to prepare for change.

Professional affiliations continually motivate and recognize personal achievements outside of the workplace. Professional organizations provide experience and opportunities in leadership. Individuals volunteer or sometimes get appointed to lead. Any small measure of success is noticed and rewarded by peers. Your next opportunity may come when asked to run for office or being appointed to serve in a vacant seat. Each opportunity brings a new reward from serving and representing your profession.

As careers progress and we pass onto the next segment, our interests take us in many different directions. We are often rewarded by moving up to a higher level of responsibility. Many professionals choose to join more than one affiliation as friends or connections encourage participation. Each affiliation brings a new network and new opportunities for growth and professional development.

As your career advances, continually ask yourself what was your intention for joining a professional affiliation, what were your expectations, and is membership in this organization helping you with your goals in the future. Professional associations do not exist to simply serve you. They are vehicles for you to work through to achieve personal or common professional goals.

Organizations need innovative thinkers to stimulate action up and down the chain. Innovation is created by reaching outside our day-to-day contacts and breaking traditions that continually produce unwanted results. Professional associations expose new ideas and concepts often creating innovation and learning.

Our profession is in transition. New faces in engineering and construction should be recognized. They should be given opportunities for increasing roles and responsibilities.

If you join, you'll get out what you put in. Don't join out of the sense of loyalty or obligation to the association but rather what's in it for you. "What's in it for me" is a rewarding career; a promising future and helping others understand and develop their future careers.

⁴William Marcuson III, PhD, P.E., ASCE President 2006-7

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Our Professional Organizations. . . - Cont'd from Page 5

“Membership Fees and Time Commitment”

Eva Kaplan-Leiserson⁵ states, “In a struggling economy, spending time on tasks that don’t directly contribute to your company’s bottom line may seem unwise. However, some argue that’s exactly what you should do, at least in regard to one activity: networking.

Networking builds relationships, promotes business and provides new opportunities. Picture yourself as a laid off professional who worked at the same company or just a few firms. You figure it’s always easy to reconnect to your old network of professional colleagues and business associates. One problem, you didn’t have the time or the money to join or maintain those networks. You now find you’ve reached a dead end.

Think you can’t afford the dues? Most employers will cover the cost of membership in a professional association or the cost of professional development offered by a professional association. You could join and let your voice be heard and counted.

Think your life is too busy, your job too demanding and your family obligations are consuming all your free time? Find a committee that interests you. Attend some meetings to stay in touch with your colleagues. Get out and let off some steam. Meetings are a great place to exchange ideas, find out what others are doing and to learn something new. Most of your colleagues face the same challenges you face. It’s important to network with others outside of your place of employment to gain a broader perspective.

“To Join or Not to Join?”

“Good career management comes from your own pocket.” Professional associations exist for the benefit of the individuals within that organization. Like most things, just joining a professional organization will not give you opportunity to enjoy its greatest potential. Becoming active, on the other hand, can open many doors for you during your career. What one gets out of an organization can often be traced to what one puts into an organization.

As I assess my career I can summarize that networking is for those with peers that are running on the track as fast as you. One thing you’ll gain from a network group is “energy.” Whether you’re looking for professional development or leadership development you’ll find some excellent reasons for joining a professional affiliation. Become involved in professional associations - remain excited about your career.

Today, I remain active in ASCE, CMAA and SAME. I’ve found a common relationship between these organizations and my role as a professional engineer and a professional construction manager.

⁵“Building Your Career Infrastructure” – NSPE, November 2008



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The Law and Civil Engineering

by Eugene L. Bass, Esq.

(“Or Equal” in Government Projects)

In preparing plans and specifications for projects, the design engineer may find certain comfort in using products or processes that he/she has used before or that have been persuasively described by some sales representative. Special care must be taken on public works projects, however, to be sure that the specification is not so restrictive, except under very limited circumstances, as to not allow any other product or process. The design engineer must be aware that “or equal” products must be permitted in most situations.

The California Public Contracts Code provides that “ No agency of the state, nor any political subdivision, municipal corporation, or district, nor any public officer or person charged with the letting of contracts for the construction, alteration, or repair of public works, shall draft or cause to be drafted specifications for bids, in connection with the construction, alteration, or repair of public works, (1) in a manner that limits the bidding, directly or indirectly, to any one specific concern, or (2) calling for a designated material, product, thing, or service by specific brand or trade name unless the specification is followed by the words “or equal” so that bidders may furnish any equal material, product, thing, or service...”

In California, to encourage “buy California” the law further states that “ ...the specifying agency shall, if aware of an equal product manufactured in this state, name that product in the specification...” In addition, the specification must provide a period of time prior to or after, or prior to and after, the award of the contract for submission of data substantiating a request for a substitution of “an equal” item. If no time period is specified, data may be submitted any time within 35 days after the award of the contract.

There are some stated exceptions to the ‘or equal’ requirement. They include where awarding authority, or its designee, makes a finding that is described in the invitation for bids or request for proposals that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes: (1) In order that a field test or experiment may be made to determine the product’s suitability for future use; (2) In order to match other products in use on a particular public improvement either completed or in the course of completion; (3) In order to obtain a necessary item that is only available from one source; or (4) In order to respond to an emergency declared by a local agency, but only if the declaration is approved by a four-fifths vote of the governing board of the local agency issuing the invitation for bid or request for proposals, or In order to respond to an emergency declared by the state, a state agency, or political subdivision of the state, but only if the facts setting forth the reasons for the finding of the emergency are contained in the public records of the authority issuing the invitation for bid or request for proposals.

Notwithstanding the engineer’s wish to be totally comfortable with the products that were in mind when the specifications were prepared, on public projects, there must be a flexibility and willingness to accept “or equals” that are presented.

The author’s discussion of legal ramifications of the particular case(s) are provided only for educational purposes and should not be relied on as legal advice. If you have a specific legal problem, please consult with your attorney.

ASCE[®]

Sacramento Section Younger Member Forum

March 2009



YMF PE Review Course

Registration for the semi-annual YMF PE Review courses for the spring 2009 exam is open. Space is still available for the popular Seismic Principles Review course, which is scheduled to begin on March 15th. To sign up for class, or for more information, including pricing, visit <http://www.sacymf.org/pe-review>.



Joyce Hirano, representing the Board for Professional Engineers and Land Surveyors introduces herself to the spring 2009 YMF General PE Review Class.

February Mixer

YMF held its February mixer on Wednesday, February 4th at the Malabar in Natomas. YMF provided appetizers during social hour, which gave members a chance to mingle. Following social hour, Doug Smith from Jacobs Engineering gave a presentation about his experiences working on the Santa Rosa sub-regional Water system. He also talked about the \$180 million Geysers Recharge Project, and the planning phase of the new urban recycled water program.



Doug Smith presents to a group of YMF members at the February Mixer

YMF Volunteers

YMF would like to thank all of the members who volunteered for Engineer's Day at Sunrise Mall on Saturday, February 21. The

turnout of interested children, parents, and teachers was high. There were a lot of fun activities to participate in; from gumdrop structure building, to surveying, to Lego robot demos. Everyone was all smiles, especially when Joyce Copelan unveiled her latest engineering activity, the Foam Arch.

Children and adults enjoyed the team work involved with constructing the colorful Foam Arch; and many learned the importance of the keystone.

Saturday was definitely a fun close to Engineering Week. If you missed out on the fun, there will be more opportunities to volunteer. Randi Hines will announce another volunteering opportunity in March for the Sacramento Regional Science and Engineering Fair. Start clearing your calendars, the event takes place on March 21st with volunteer positions varying from working at the ASCE table, being a judge, or helping out as a mentor.

March Social

YMF's March Social will be bowling held at Country Club Lanes on Wednesday, March 4th, 2009 at 5:30 pm. This is a casual and social event for our YMF members and prospective members to have some fun. YMF will provide pizza and sodas for all. For more information, check the YMF website. Please RSVP to Elias Karam at Elias.Karam@Jacobs.com if you are interested.



Member, and ASCE Section President, Fareed Pittabwala, sets up to hit a strike during last year's Bowling Social

UPCOMING EVENTS

- * Social Bowling @ Country Club Lanes, Wednesday, March 4th, 5:30 pm
- * Business Meeting @ Mark Thomas & Company, April 1st, 5:30 pm

For more information, visit www.sacymf.org

Feather River Branch Meeting - Wed., March 11th

by Shane Cummings, President Feather River Branch and Amie McAllister, Vice President Feather River Branch

Please join us for our next meeting scheduled Wednesday, March 11, 2009 at Marie Callender's Restaurant in Chico. The meeting will include presentation on the City of Chico's Water Pollution Control Plant expansion project, by Stephen Caswell and Beverly Hann with Carollo Engineering. Quene Hansen from the City of Chico and Tamera Miller with MPM Engineering will also be available to answer questions. Please see the flyer on Page 9 in this issue for full details.

Look forward to the April 8, 2009 meeting scheduled with Vickie Newlin, Assistant Director of Butte County Department of Water and Resource Conservation. Current drought impacts and other important water and resource conservation issues will be discussed.

If you have suggestions or recommendations for a meeting topic or location, please contact Amie McAllister at amie.steel@gmail.com or Shane Cummings at sdcummings@handk.net. We are looking to increase our membership participation in our monthly meetings and regular community outreach activities, so please drop us some suggestions.

Central Valley Branch

Ben Crawford, Vice President, Central Valley Branch

For more information regarding the monthly meeting of the Central Valley Branch of ASCE, contact Ben Crawford at benc@blackburnconsulting.com; 209-522-6273.

Shasta Branch Meeting

Haakon Ogbeide, PE, President, Shasta Branch

Please contact Haakon Ogbeide for information regarding the Shasta Branch: Haakon.Ogbeide@ch2m.com; 530-229-3388.

Capital Branch Luncheon - Tues., March 24th

Advanced Asphalt Technology Featured at Geo-Institute & Capital Branch Joint Event



The Sacramento Section's Capital Branch and the Geo-Institute will co-sponsor the program for the Capital Branch's regularly scheduled luncheon on Tuesday, March 24th. The featured speaker will be Ron Skaggs, PE, of Condor Earth Technologies, Inc. His presentation is described in his own words, below.

Cold foam in-place recycled asphaltic concrete (CFA) is now a well established methodology

for in-place recycling of distressed pavements with a successful track record of completed projects throughout California. This track record includes many general engineering and specialty subcontractors with experience in conventional uses of CFA. Initially, projects in California were most commonly applied to rural applications,

with Caltrans using CFA successfully on numerous rural highways in northern and southern California. While the application of CFA in California is still not common, successful projects can now be shown by example to interested parties, both private and public agencies, where CFA has successfully been implemented. The basic procedure consists of grinding and pulverizing the existing pavement section, and addition of "foam" bituminous materials, followed by compaction using conventional compaction equipment (sheepfoot compactor, steel drum roller, pneumatic rollers) to construct a new stabilized pavement subgrade over which an asphaltic concrete (AC) overlay is typically applied. Typical treatment depths vary from 6 to 12 inches, with typically 2 to 4 inches of AC overlay to complete the project.

This presentation will discuss several case studies that are good examples of innovative applications of CFA in urban and rural areas using pavements which conventionally would not be considered as good candidates for CFA treatment due to their existing pavement and/or aggregate base (AB) thickness, and/or the quality of the underlying subgrade. One of the projects included in the presentation, City of Chico East Avenue, was awarded the 2008 ASCE Geo-Institute Project of the Year Award.

Ron Skaggs holds a Bachelor of Civil Engineering from Fresno State, and a Masters in Engineering from UC Davis, 1985. He is a licensed Civil and Geotechnical Engineer in California, and is currently the managing Principal of the Stockton office of Condor Earth Technologies, Inc., and a Board member. His community activities include Past President of the Central Valley Chapter of the American Society of Civil Engineers, President of the San Joaquin Engineers Council, and Chief Umpire for Sunset Little League. Ron is married to his wife, Karen, of 26 years and they have six children, ages 9 to 21. Their family makes their home in Stockton, and they currently are hosting two foreign exchange students.

Reservations due by: Thurs., March 19th.


Location: Sofia Restaurant located at 815 - 11th St (the corner of 11th and H Street). Sofia has on-site parking, with City garages nearby for additional parking, and is also very accessible via light rail. Social hour starts at 11:30 a.m., lunch at noon. **Menu:** *Cappellini Chicken Pomodoro:* Fresh Cappellini Pasta tossed with fresh tomatoes, garlic, onions, basil, pine nuts, feta cheese and balsamic vinaigrette. **Vegetarian alternative:** *Cappellini Pomodoro:* Fresh Cappellini Pasta tossed with fresh tomatoes, garlic, onions, basil, pine nuts, feta cheese and balsamic vinaigrette.

For reservations call the ASCE Office at 916-961-2723, or e-mail to asce@asce-sacto.org.

You may pay at the door. No-shows will be billed \$25.00.

The cost is \$25.00 for Section Members; Students: \$10.00. **Since our luncheons are now "sit-down" service, we would appreciate receiving a reservation in order to give the restaurant an accurate count for the luncheon. In this effort, walk-ins will be charged \$30.00 for the luncheon.**

If you would like to be put on the e-mail contact list, let us know at asce@asce-sacto.org. (Section member's yearly dues are \$30 when you pay your ASCE membership.)



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BRANCH MEETING

March 11, 2009 (Wednesday)

Who should attend? – All civil engineers, architects, and anyone interested in learning more about the City of Chico's Water Pollution Control Plant Expansion Project.

What's it about? – Stephen Caswell and Beverly Hann with Carollo Engineering will discuss the City of Chico Water Pollution Control Plant (WPCP) Expansion project, that is designed to increase the average day capacity of the plant to 12 mgd. The planning for the project began in 2003 and construction is scheduled to be completed this fall. This presentation will provide an overview of the expansion project with a focus on two of the more challenging aspects: design and construction of both a new headworks for the WPCP and a new outfall within the Sacramento River. Design of the headworks incorporated computational fluid dynamics (CFD) modeling to optimize flow distribution through the headworks. This innovative technique will be discussed as well as other aspects of the headworks design. The outfall was designed to allow the High-Density PolyEthylene (HDPE) pipe to be floated on the water surface and then sunk into place. This relatively new construction method will be discussed as well as the many challenges faced in getting a construction project within the Sacramento River permitted. Additional representatives, Quene Hansen from the City of Chico and Tamera Miller with MPM Engineering will also be available to answer questions.

When? - The event will take place on March 11, 2009 at 6:00 pm. A brief general meeting will begin at 7:00 pm with dinner served shortly thereafter. The guest speaker will begin the presentation following dinner.

*Dinner cost is \$20/person
(plus cost for alcoholic beverage)*

Where? – Marie Callender's Restaurant is located at 1910 East 20th Street in Chico.

Take the East 20th Street exit off HWY 99.
Head east and the restaurant is located in the Chico Mall area.



What's Next?

- April 8th** – Vickie Newlin, Assistant Director of Butte County Department of Water and Resource Conservation is scheduled to discuss the current drought impacts and other important issues
- May 6th** – Gary Luce with Geocon Consultants scheduled to discuss the Virginia & Truckee Railroad project (This will be a joint meeting with CSU Chico's Association of Geological and Environmental Students, or AGES)

Questions?

President, Shane Cummings – 894-2487; sdcummings@handk.net
 Vice President, Amie M^cAllister – 879-6911; amie.steel@gmail.com
 Secretary, Tammie Watkins – 893-4640; tammie_watkins@URSCorp.com
 Treasurer, Wes Gilbert – 899-9503; wgilbert@lumosenengineering.com

TCLEE Conference to be Held in Oakland

by Stu Werner, Chair of TCLEE 2009

The ASCE Technical Council for Lifeline Earthquake Engineering conference entitled “TCLEE 2009 --Lifeline Earthquake Engineering in a Multihazard Environment” will be held in Oakland California during June 29 – July 1, 2009. This will be the seventh in a series of TCLEE conferences that have previously focused on the performance of lifelines during earthquakes. However, major natural hazards in addition to earthquakes (floods, extreme winds, and tsunami) and man-made hazards have also caused significant lifeline disruptions with national and international impacts. Furthermore, with the current focus on revitalizing our nation’s infrastructure as a means for economic stimulus, there is now an unprecedented opportunity to modernize our lifelines and reduce risks of unacceptable disruption of lifeline operations from all of these hazards.

TCLEE 2009 will address this issue by providing over 200 technical papers, workshops, and field trips that will focus on lifeline performance requirements, design, retrofit, analysis, and planning of lifelines subjected to earthquakes, other natural hazards, and man-made hazards. The conference will also include sessions on lifelines interdependencies, sustainable lifelines, lifeline risk-reduction project management, multinational financial perspectives, lifeline performance during Hurricane Katrina and the recent Wenchuan, China earthquake, PEER lifeline research activities, and lifeline elements of the NEHRP Reauthorization Program.

Please join us at TCLEE 2009 on June 29 – July 1. More information on conference registration, technical program agenda, field trips, and workshops is provided at the conference website: www.asce.org/conferences/tclee2009.

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Senior Project Manager Water/Wastewater – Walnut Creek
This senior level position will be responsible for managing existing and future water/wastewater project designs across a broad spectrum of small and large scale projects. Ideal candidates have performed designs and calculations supporting pipelines, pump stations, reservoirs and hydraulic structures, and managed the completion of comprehensive plans, specifications and estimate packages. Candidates must also have the ability to expand our water/ wastewater services in Northern California and perform business development activities including proposal preparation, interviews and client interaction. Ideal candidates enjoy working in a team environment in addition to possessing the desire and ability to exercise independent judgment. Candidates must possess a BSCE, California professional registration, recent Bay Area representative projects and an excellent project management reputation with clients in Northern California. This position requires a minimum of 10 years experience.

Senior Structural Engineer – Sacramento
RBF is seeking a Senior Structural Engineer to manage and provide design engineering for projects including bridges, pump stations, reservoirs, hydraulic structures and retaining walls. Responsibilities include coordination with internal and external clients, agencies, other consultants and developers and preparation of a variety of technical structural engineering studies, reports and improvement plans. Requirements include 10+ years of experience, a BSCE and California PE or SE license.

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