



SEA-NEWS



A Publication of SEAOSD - Structural Engineers Association of San Diego

Tuesday, January 16, 2007

Introduction, Overview, and Code Development of Buckling-Restrained Braced Frames (BRBFs)

The use BRBFs in high seismic regions has increased dramatically within the last few years. While California saw its first application in 2000, by one estimate there are now about 100 buildings utilizing BRBFs in the Western United States with the first BRBF building in San Diego occurring in 2005. So what are these BRBFs, what makes them different from SCBFs and how can I find out about them? At the January dinner meeting BRBFs will be introduced and their uniqueness defined. An explanation will be provided on how Buckling-Restrained Braces (BRBs) work, and different commercially-available BRB types will be shown. BRBF construction samples will be presented as well as selected experimental results. Design guidelines and resources for designers will be introduced. The approval process will be discussed in terms of current state of the practice as well as future adoption by the California Building Code.

Speaker Biography: Walterio A. López

Walterio A. Lopez earned a B.S. in Civil Engineering from California Polytechnic in San Luis Obispo, CA. He earned an M.S. in Structural Engineering from UC Berkeley, Berkeley, CA. He is a Registered Civil and Structural Engineer in the State of California. He is a Senior Associate at Rutherford & Chekene with thirteen years of experience in structural engineering. He served as project manager for the design of three multi-story buildings using buckling-restrained braced frames (BRBFs) as well as numerous other buildings. Mr. Lopez participated in the design of a test

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Time: Registration: 5:30-6:15 PM Dinner: 6:15-7:15 PM
Program: 7:15-8:15 PM

Menu: Chicken Piccata, topped with lemon caper sauce, served on a bed of Penne Pasta, Julienne of vegetables in a garlic olive oil herb sauce. (vegetarian plate available upon request)

Cost: Members: \$30.00, Non-Members: \$40.00, Students: \$12.50



Location: The Doubletree Hotel Mission Valley, 7450 Hazard Center Drive, San Diego, California, 92108, (619) 297-5463

Reservation: RSVP by 11 AM Friday, January 12, 2007 by emailing Cathy at secretary@seaosd.org, or calling 619-223-9955. Your advanced reservations, made and honored, are essential to fulfilling our catering commitment. If you make a dinner reservation and fail to attend you will be invoiced.

Cancellation: If you are unable to attend, please call Cathy at 619-223-9955 and CANCEL your reservations(s). Cancellation must be made at least 24 hours in advance.

President's Message

Welcome to the New Year! I hope everyone had a great holiday and an over-abundance of football. As we ring in the New Year, we are also on the clock. The word is out that a year from now we may finally have an updated building code in California. The California Building Standards Commission is on schedule to have the adoption and publication of the 2007 California Building Code ready in July 2007 with enforcement beginning in January 2008. As you may know, the 2007 CBC will adopt the 2006 International Building Code as its base code. As such, several material requirements will be defined solely by reference to other national material code criteria such as ACI, AISC and NDS. In order to design buildings, an engineer will need a fairly complete library of code reference material. Yes, it's a whole new world. I am not mentioning this to scare anyone, however, it is fairly intimidating.

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SCSE Student Chapter Events...Page 6

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(Speaker continued from Page 1)

frame and loading protocol associated with the experimental verification of a BRBF design.

He has advised on loading protocol and observed subassemblage testing for all three BRB manufacturers. He served on the AISC/SEAOC committee on BRBFs that developed the current code provisions.

Mr. Lopez is the past chair of the steel seismology subcommittee of SEAONC. He has presented articles at three different SEAOC conferences and is the author of the upcoming BlueBook article on BRBFs. He is the lead author of the guidelines used by structural engineers to design BRBFs.

Mr. Lopez serves on two advisory boards for research projects dealing with innovative structural steel systems and is a corresponding member of the AISC seismic committee, TC-9.

He has served as a reviewer for the National Science Foundation's Division of Earthquake Engineering Research Centers and as an oversight committee member of AISC's gusset plate synthesis research project.

**Your SEAOSD Association
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SEAOSD Presents: Practical Design and Detailing Seminar on Structural Observation and Special Inspection

Tuesday, January 30, 2007, 1-5 PM
City of San Diego Inspection Svcs.
9601 Ridgehaven Court
San Diego, CA 92123

Cost: \$60 Members
\$75 Non-Members
RSVP and Payment due
by January 26, 2007.
Email: secretary@seaosd.org

(Engineering News continued on Page 6)



Irvine Institute of Technology

8659 Research Dr., Irvine, CA 92618

Dr. CV Chelapati, President

Year 2007 PE and Structural Review Schedules

P.E. (Civil) Review Seminar

Spring: Jan 6 – Mar 10, 2007
Fall: Jul 21 – Sep 15, 2007

Engineering Surveying

Spring: Mar 17 – Mar 25, 2007
Fall: Oct 6 – Oct 14, 2007

Seismic Principles

Spring: Mar 31 – Apr 8, 2007
Fall: Sep 22 – Sep 30, 2007

Structural II Review Seminar

Spring: Jan 20 – Apr 8, 2007

CA SE Seismic Review Seminar

Fall: Jul 28 – Oct 14, 2007

All seminars are held in Irvine, CA but are also now available live off-site or archived via web casting. Seminar Fees include workbooks. Visit www.Irvine-Institute.org for a short web casting demo. Call (949) 585-9137 for further information.

POSTING FOR MEMBERSHIP

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Leon Besprozvanny
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Student

MEMBERSHIP

CLASS CHANGE

Richard Nagtalon, P.E.
FrameMax
Associate Member to Member

NEW MEMBERS

Sage V. Lopez
Josephson-Werdowatz
Associate Member



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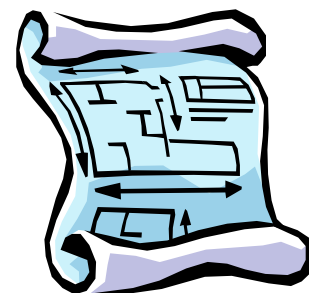
5 Questions to ask yourself:

- 1.) Are you ready to take the lead on major civil structures?
- 2.) Do you have a P.E. (S.E. preferred) with concrete design/construction experience?
- 3.) Do you have at least 8 years of experience?
- 4.) Have you completed Waterfront, Marine, Bridge, or Transportation projects?
- 5.) Would you like to attend exciting office lunches?

We are seeking an ENTRY LEVEL ENGINEER with one to three years of experience who wants to expand their experience through a wide variety of projects and involvement in these buildings from concept to construction. Good communication skills are expected for this position.

We are also looking for a PROJECT STRUCTURAL ENGINEER with a minimum of five years of experience. Good communication skills, and a solid engineering and detailing base are required for this position. Licensed engineers are preferred.

For more information about Wiseman+Rohy, please visit our web page at www.wrengineers.com. Please send resumes to: Jim Wiseman at jwiseman@wrengineers.com or Fax to: (858) 536-5163



Simon Wong Engineering, celebrating our 20th anniversary, is seeking Civil Construction Engineers, Resident Engineers, and Electrical Inspectors. All positions require excellent writing, organization, and problem solving skills. Electrical Inspector requires ICC/ICBO and experience with traffic signals, lighting and electrical for transportation projects. Scope of work includes construction management, inspection and office engineering for civil projects including highway, bridge, rail and airport projects. Caltrans & SWPPP experience a plus. Also seeking Structural Engineer with a minimum of 5 years of experience in the structural design of buildings encompassing steel, concrete masonry and timber, and a Document Control Technician with Prolog experience. Excellent benefits and work environment. Fax resume: ATTN: HR 858-566-6844 EOE



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If you answered yes to the questions above, then the San Diego office of Moffatt & Nichol is the right place to enhance your career. At Moffatt & Nichol, you will have the opportunity to design multi-million dollar pier, wharf, and bridge projects. If you have a solid background in analysis and concrete design, contact Moffatt & Nichol and join a team with excellent benefits and a great working environment.

Contact: David Lowy at dlowy@moffattnichol.com



GNR Engineering Project Engineer

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Job Forum



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FrameMax Inc. is actively seeking motivated entry level engineers wanting to expand their knowledge to include cold formed steel.

BS degree in Structural / Architectural Engineering with experience in structural design. Knowledge of cold formed steel framing preferred.

General computer knowledge to include engineering software, AutoCad and Excel. Ability to read, analyze, and interpret architectural and structural drawings. Ability to effectively present information and respond to questions from management and other relevant persons. Strong oral and written communication skills.

Please send resumes via email to rnagtalon@framemax.com or via fax to (858) 486-7220 attention Richard Nagtalon. Visit our website at www.framemax.com.



Structural Engineer/ Project Manager

D'Amato Conversano Inc. (DCI Engineers) has current opportunities for exceptional structural Project Managers and Project Engineers in our growing San Diego office. We are currently looking for project engineers with a minimum of two years experience, and a senior structural project manager who is a licensed structural engineer.

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DCI Engineers is a structural and civil firm with offices in Washington, Oregon, and California. We work on a wide variety of projects, ranging from 25-story mid-rise buildings to custom homes - and everything in between. More information on DCI Engineers can be found on our web site at www.dci-engineers.com.

We like to work hard, but we believe that work can be fun and want to maintain a balance between our professional and personal lives. We want team-oriented people with experience in a wide variety of projects; including concrete, steel, and timber. We also look for academic achievement, preferably a Master's degree, and excellent verbal and written communication skills.

We offer a comfortable working environment, competitive salary, excellent benefits, and opportunities for learning, growth, and advancement.

If this opportunity interests you, please forward a cover letter and resume to DCI Engineers. e-mail: sclemmer@dci-engineers.com or fax: 619.234.0582, Suzanne Clemmer, 450 B Street #800, San Diego, CA 92101



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STRUCTURAL DESIGNER

1 to 4 years experience. A good understanding of wood engineering and lateral analysis required. California EIT required. AutoCad skills a plus. Fax resume to (530) 583-9294 or Email: gary.davis@garydavisgroup.com. Visit our website listed below: www.garydavisgroup.com.



Curry Price Court is seeking a DESIGN ENGINEER. Candidates with experience in timber, concrete, steel & masonry building design and/or recent graduates are sought. AutoCAD experience a plus. Competitive compensation and comprehensive benefits including health insurance, profit sharing, 401(k) and pleasant office environment.

Mail, fax or e-mail resume in confidence with cover letter stating current & desired salary to:

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ADDITIONAL NOTE!

If you are wondering how much time your Job Forum ad has left count the characters:



When there is only one character left the ad is on its last issue.



Structural Engineers Association Recognize Five of Their Own

By ERIK PISOR, The Daily Transcript
Thursday, December 14, 2006

A tilt-up hospital in Nevada, a Navy pier in San Diego, a new high school, a public library and buildings at Petco Park were recognized by the Structural Engineers Association of San Diego (SEAOSD) with the association's 2006 Excellence in Structural Engineering Awards.

Structural engineer Degenkolb Engineers, along with Moon Mayoras Architects, received the Conventional Technology in New Construction award for their work on the Carson Tahoe Hospital.

The three-story, 358,000-square-foot hospital in Carson City, Nev., was designed for a Zone 4 earthquake using steel-braced frames. However, the building was re-designed with the use of concrete tilt-up walls, some among the largest tilt-ups ever, at up to 292,000 pounds and 83 feet tall. This allowed for an open, flexible interior plan and more available locations for window openings.

The project also included planning for a freestanding cancer center and three medical office buildings on the new site adjacent to the facility.

Receiving the Conventional Technology in Retrofit/Alteration award was structural engineer Blaylock Engineering Group for its rebuilding of Pier 4 at the San Diego Naval Station, according to SEAOSD's release.

Built in 1943, the pier is a concrete deck supported on concrete piles. Prior to Blaylock retrofitting the pier, piles were badly damaged by corrosion of the reinforcing.

The solution was to pour a new deck on top of the old deck, which was used as a form and not repaired. The piles were repaired. This extended the life

of the pier another 50 years at half the cost of demolishing and building a new one. Additionally, electrical services were upgraded and the mechanical utilities were replaced or refurbished.

The two projects are a reflection of the quality of work that the structural engineering profession is providing, according to Jim Amundson, principal of Hope Engineering and one of three panel members that judged the submitted projects.

The judges considered each project's creativity and innovation in design, efficiency in use of materials and labor, suitability of the design to the performance objectives of the project and ability to address any unusual challenges to determine what engineers received recognition.

SEAOSD also awarded three Certificates of Merit to projects for their creativity and use of practical solutions in structural engineering design.

In the Conventional Technology in New Construction category SDSE Engineers, along with Architects MDWF received recognition for their work on Cathedral Catholic High School.

The new campus has 12 buildings, including a library, chapel, gymnasium and theater. Exposed masonry walls up to 45 feet high and steel roof and floor systems were used. Special attention was paid to detailing, which allowed all masonry work on each building to be completed before steel work started.

KPFF Consulting Engineers and Carrier Johnson Architects received recognition in the Conventional Technology in New Construction category for its work on the National City

Public Library.

The geometry of the 49,000 square foot library was complex since the main area is single-story with high ceilings and elliptical. Connected to it are two, two-story rectangular modules. Steel framing with a combination of moment and braced frames was chosen for its light weight and ability to accommodate floor-to-ceiling glazing at exterior walls.

Burkett & Wong Engineers partnered with architect Antoine Predock and were given an award in the Landmark Structures category for their work on the Garden Buildings at Petco Park. The two, four-story garden buildings house concessions and facilities for the ballpark, and are adjoined to the main stadium by pedestrian ramps. The buildings are constructed, mainly of cast-in-place concrete with one-way slabs spanning between concrete beams that are supported by concrete columns.

A special concrete moment-resisting frame is incorporated to resist lateral loads and deliver them to the supporting seating-bowl framing. According to Burkett & Wong's website, "the incorporation of planters, water features, long escalators and access bridges provided us with some unique structural challenges."

Navy's Salvage Skipper Speaks at National Engineers Week Banquet in San Diego

Join engineering society leaders and spouses at the National Engineers Week of San Diego (NEWSD) Banquet, February 23, 2007. Banquet to be held at USD. Cost is \$37.50 per person. RSVP by January 15 to secretary@seaosd.org.



SCSE - SEAOSD Student Chapter Holds Major Events in 2007

The Society of Civil and Structural Engineers (SCSE), which is the SEAOSD Student Chapter at UCSD, is looking for volunteer and financial assistance with two major upcoming events.

The first is an Earthquake Engineering Outreach program occurring March 15th-30th, 2007. Volunteers will be organized into teams to visit local 6th grade classrooms to teach students about earthquake engineering through building K'NEX models in a one hour outreach session. The models from each school would then be subject to a real earthquake simulation at the UCSD Englekirk Center Shake Table April 2nd-6th. Outreach team orientation will occur in late January. Please contact Philip Yu (pjyu@ucsd.edu) if you, or your firm, are interested in participating.

The second event is the Pacific Southwest Regional Conference which the UCSD SCSE is hosting April 12th-14th, 2007. Volunteers are needed to judge 17 different competitions such as the Concrete Canoe, Steel Bridge, and Quiz Bowl. More information can be found at <http://scse.ucsd.edu/Pages/pswrc07/index.html> or by contacting the PSWRC Director, Oliver Asis (olasis@ucsd.edu). By January 14th, there will be a volunteer registration form online for those who are interested, where they can fill out and submit what days/times they are available and what events they are most interested in.

Thank you in advance for getting out there and supporting our local student chapter.

San Diego Metropolitan Daily Business Report Press Release printed December 14, 2006

AWARDS

The Structural Engineers Association of San Diego honored Moon Mayoras Architects, Degenkolb Engineers and Blaylock Engineering Group as recipients of its 2006 Excellence in Structural Engineering Awards. The winners by category were:

- Conventional Technology in New Construction: Moon Mayoras Architects and structural engineer Degenkolb Engineers for Carson Tahoe Hospital. The three-story hospital in Carson City, Nev., was designed for a Zone 4 earthquake. Although steel braced frames were originally proposed, it was re-designed with the unconventional use of concrete tilt-up walls. This allowed for an open, flexible interior plan as well as more available locations for window openings. The walls are among the largest tilt-ups ever, at up to 292,000 pounds and 83 feet tall.
 - Conventional Technology in Retrofit/Alteration: Blaylock Engineering Group for rebuild of Pier 4 at San Diego Naval Station. Pier 4 was built in 1943 and is a concrete deck supported on concrete piles. The pier and piles were badly damaged by corrosion of the reinforcing. The innovative solution was to pour a new deck on top of the old deck, which was used as a form and not repaired. The piles were repaired. This extends the life of the pier another 50 years at half the cost of demolishing and building a new one.
- Project submissions were judged by a local panel of three expert structural engineers: Tony Court of Curry Price Court; Jim Amundson of Hope Engineering and Carl Josephson of Josephson Werdowatz.

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The association also awarded three Certificates of Merit to projects for their creativity and use of practical solutions in structural engineering design:

- Conventional Technology in New Construction: Cathedral Catholic High School. Architect: Architects MDWF. Structural engineer: SDSE Engineers This new high school campus in Carmel Valley has 12 buildings including a library, chapel, gymnasium and theater. Exposed masonry walls up to 45 feet high and steel roof and floor systems were used. Special attention was paid to detailing, which allowed all masonry work on each building to be completed before steel work began. This greatly helped the schedule and flow of construction.
- Conventional Technology in New Construction: National City Public Library. Architect: Carrier Johnson Architects. Structural engineer: KPFF Consulting Engineers. The geometry of the 49,000-square-foot library is complex. The main area is elliptical in plan and is a single story with high ceilings. Connected to it are two two-story rectangular modules. Steel framing with a combination of moment and braced frames was chosen for its light weight and ability to accommodate floor-to-ceiling glazing at exterior walls.
- Landmark Structures: Garden Buildings at Petco Park. Architect: Antoine Predock. Structural engineer: Burkett & Wong Engineers The two four-story garden buildings house concessions and facilities for the ballpark and are adjoined to the main stadium by pedestrian ramps. They also support planters and water features. They are constructed of concrete frames covered in stone cladding. The shape and placement of the garden buildings is meant to evoke the natural landscape of San Diego, with its canyons and cliffs.



Membership Information



SEAOSD Board of Directors Meeting

The SEAOSD Board of Directors normally meets the first Thursday of every month. Everyone is welcome to attend. The next Board of Director's meeting will be held on January 4th at 4:00 PM at SDSE, 3838 Camino Del Rio North, Suite 110, San Diego, CA 92108.

If you have an issue to bring before the Board please let a member of the Board know so that it can be placed on the agenda. The agenda can be viewed on the SEAOSD webpage at <http://seaosd.org>.

Send correspondence to: **SEAOSD, P.O. Box 26876, #203, San Diego, CA 92196-0876, (619) 223-9955.**



HAVE YOU MOVED? CHANGED JOBS? BEEN LICENSED? PLEASE LET US KNOW!

Please fill in any changes in status, as applicable:

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Or Email: secretary@seaosd.org

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Advertisement Policy



(President's Message continued from Page 1)

Most of the nation has already been designing from the International Building Codes for years. Now it is California's time to make the switch. There are many good aspects of the 2006 IBC, including more current criteria for seismic force resisting systems that incorporate many of the lessons learned as a result of the Northridge earthquake as well as recent full scale testing. I am hopeful that the new code will help to greatly narrow the gap between what is currently code compliant and what is good current practice. If you are like me, I find myself having to explain to clients that the applicable 1997 UBC criteria is ten years or more behind the current recommendations for different systems and materials.

This brings me to one of the purposes of this message, the SEAOSD Code Committee. The SEAOC State Board has seen the need to re-activate the Code Committee and has named James Lai from the Southern Section as the State-wide Chair. The charge for this committee is to evaluate the code in the interest of California Structural Engineers; develop proposals for changes to the code and to make interpretations of the code for our members. I see a real need as we all attempt to design using this new code, for the Code Committee to be an option for engineers to access to provide some consistent interpretations of the code. In another aspect, the reach for this committee will be on a national stage more than before. As mentioned previously, times have changed. There is no longer a single avenue, such as the ICBO was in the past, where our time and efforts can be focused. Recent efforts by the Seismology Committee to present code change proposals during the ICC National Code Hearings has shown that we must have more involvement with the other national organizations such as AISC, ACI and NCSEA on a long term and consistent basis. I am pleased to say that there has been interest by a few members to participate and I urge more of you to consider participating as well. Knowledge of the new code is not a requirement, we will be learning about the new code as part of the process. I would like to thank Chuck

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ADVERTISEMENT POLICY

JOB FORUM ADS:

- SEA News charges \$50 to run "Help Wanted" and "Employment Wanted" advertisements for four months. Please keep these under 100 words.

ADVERTISEMENTS:

- Flyers (*375 copies provided by advertiser*) will be inserted into the Newsletter for \$200 per issue, per 8 1/2 by 11 sheet.
- 1/4 page advertisements for \$75 per issue (4 1/4" x 3 1/4").
- 1/2 page advertisements for \$125 per issue (4 1/4" x 6 3/4").
- Full page advertisements for \$225 per issue (6 3/4" x 8 3/4").
- Professional Directory advertisements for \$330 per year or \$30 per issue (see page 9).
- Camera-ready copy of the advertisement to be provided by advertiser.
- All advertisements are to be prepaid.
- Make checks payable to the Structural Engineers Association of San Diego.
- Mail checks and ads directly to the editor prior to the deadline (contact information below).

For further information, contact SEAOSD at (619) 223-9955 or the current editor (contact information below).



UPCOMING SEA-NEWS DEADLINES:

Feb 2007	01/12/07
Mar 2007	02/09/07
Apr 2007	03/09/07
May 2007	04/13/07

* These dates are subject to change. You may contact the Editor, Cathy Riley, at:

secretary@seaosd.org
Phone: 619-212-5210
Fax: 619-749-2188

c/o SEAOSD

P.O. Box 26876, #203

San Diego, CA 92196-0876

All submissions must be given to the Editor by **12:00 PM** the day of the deadline to allow time for formatting and printing.

Thank you,

SEAOSD Publications Committee



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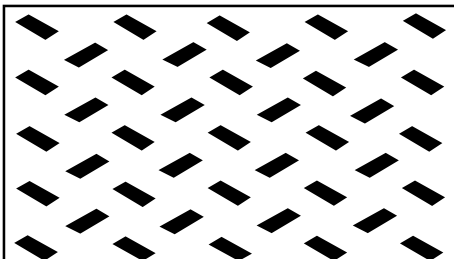
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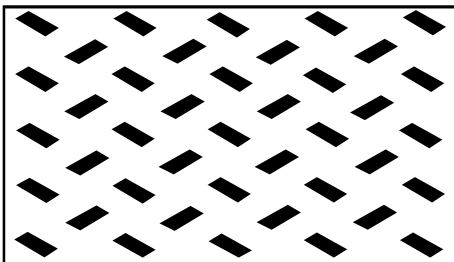
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Mendenhall for stepping forward to be the Chair as we re-activate our local Code Committee. If you have an interest in participating please contact Chuck at (858) 560-1468 or myself at (619) 297-2223.

I would also like to mention two items related to our upcoming meetings. First, please note that we are having this month's dinner meeting at a new venue, the Doubletree Hotel. We have been very pleased with the Handlery Hotel for a quite a while, but the Board thought it would be nice to have a change of menu and venue. The Doubletree Hotel is very accessible from the freeway, near the 805 and Friars Road, and has lots of free parking. I hope to see you all there and be sure to think twice before going on automatic pilot on your way to the meeting.

Secondly, I am pleased to announce that we will be adding an event to our February meeting. We celebrate Engineer's Week in February and it is fitting that as part of our meeting we will be highlighting our SEAOSD Life Members and members of the SEAOC College of Fellows.

I would like to invite all of our seasoned engineers, active and retired, to consider attending our meeting on February 20, 2007. It will be a great opportunity to renew some long-time friendships and acquaintances and to get to know some of our younger members.

In closing, I know that I am looking forward to the new year ahead and would like to express my wishes that it is a very satisfying and prosperous year for all of us.

Christopher Kamp
President SEAOSD



SEA-NEWS

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OFFICERS & DIRECTORS FOR 2006-2007

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President	Christopher Kamp	(619) 297-2223	(619) 297-4913	chrisk@sdse.com
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Treasurer	Bridgett Reid	(619) 543-4719	(619) 543-0667	bridgett@blaylock.net
Secretary	Cathy T. Riley	(619) 442-4089	(619) 749-2188	secretary@seaosd.org
Past President	John Khadivi	(619) 563-8878	None	johnkhadivi@cox.net
Director '05-'07	Jim Miller	(619) 291-2800	(619) 291-0613	jmiller@cpceng.com
Director '05-'07	Allen Adams	(760) 431-3610 x113	(760) 431-5214	allen.adams@bentley.com
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Director '06-'08	Ali Fattah	(619) 446-5082	(619) 446-5483	afattah@sandiego.gov

SEAOSD COMMITTEE CHAIRPERSONS 2006-2007

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Awards	Lianne Bell	(619) 521-8500	(619) 521-8591	lianne.bell@kpff-sd.com
Business Forum	Allen Adams	(760) 431-3610 x113	(760) 431-5214	allen.adams@bentley.com
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Existing Buildings	Jim Miller	(619) 291-2800	(619) 291-0613	jmiller@cpceng.com
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Host	Caleb Finn	(858)-344-8323		cfinn@ucsd.edu
Legislative	Carl Josephson	(858) 558-2181	(858) 558-2188	cjosephson@jwa-se.com
Mentorship Program	OPEN			
Nominating Committee	John Khadivi	(619) 563-8878	None	johnkhadivi@cox.net
Performance Based Engineering	Tony Court	(619) 291-2800	(619) 291-0613	abcourt@cpceng.com
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Public Relations	Melissa Kroskey	(619) 297-2223	(619) 297-4913	melissak@sdse.com
Seismology/Structural Strdrs	Doug Magee	(858) 674-5468	(858) 674-5471	douglas.magee@dgs.ca.gov
Small Projects Referral List	Dale Curtis	(619) 265-0700	(619) 265-1954	None
Student Liaison/Scholarship	Jim Conley	(619) 232-4673	(619) 235-4675	jconley@hopeengineering.com
Webmaster	William Miller	(858) 558-2181	(858) 558-2188	webmaster@seaosd.org
Young Members' Forum	Beth Kueter	(619) 297-2223	(619) 297-4913	bethk@sdse.com