



SEA-NEWS



A Publication of SEAOSD - Structural Engineers Association of San Diego

****Fellows Night**** **Tuesday, February 20, 2007**

The Blast Simulator, University of California, San Diego

The UCSD Blast Simulator, which simulates blast loading without a fireball, is the first facility in the world of its kind. It allows completely repeatable, unobscured blast simulations which can be captured on film by high speed cameras operating at up to 10,000 frames per second.

The blast simulator is used to perform controlled blast load simulations on critical
(continued on Page 5)

Speaker Biography:

Gilbert A. Hegemier is a professor of Structural Engineering at U.C. San Diego. He received his Ph.D. from the California Institute of Technology in 1964. Prior to coming to UCSD, he was a mechanical engineer at TRW Systems Space Technology Lab, the National Engineering Science Company, and the Naval Ordnance Laboratory. Hegemier has two patents and is a member of the American Institute of Aero-
(continued on Page 5)

Honorary Fellows Presentation:

Fellows Members, **Mr. Tom Atkinson and Mr. Al Blaylock** will be honored through a Powerpoint presentation presented by Matt Martinez. All SEAOSD Fellow and Life Members have been invited as special guests for this meeting. See **Page 6** for more information about this special event.

SEAOC President, Norman Scheel, and SEAOC Executive Director, Lee Adler, will also be guests at this special meeting.

Time: Registration: 5:30-6:15 PM Dinner: 6:15-7:00 PM
Program: 7:00-8:30 PM

Menu: Combination of grilled, marinated flank steak with lemon thyme au jus and breast of chicken teriyaki with pineapple glaze sauce, greek salad, Black Forest for dessert, tea and coffee service. (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, February 16, 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

Although we do not promote it as much as we should, February is a time each year in which engineers and the accomplishments of engineers are recognized and celebrated. National Engineers Week occurs the week of February 18th through the 24th. This year our dinner meeting on February 20th coincides with National Engineers week and we are offering recognition of structural engineering in the San Diego area in what I believe to be a very appropriate manner. As I mentioned in last month's message, our February meeting is going to be the first SEAOSD Fellows Night. The Board has sent out notices to all of our Fellows members and Life members inviting them to this meeting. It is hoped, that even in this small way, we can recognize and honor some of
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STRUCTURAL ENGINEERS ASSOCIATION OF SAN DIEGO 6TH ANNUAL GOLF TOURNAMENT

Where: The Vineyard at
Escondido
925 San Pasqual
Escondido, CA
When: Friday, May 11, 2007
11:30 pm -Check In
1:00 pm -
Shotgun Start

Entry Fee \$120 includes:
18 Holes of Golf, Cart, Box Lunch,
Tournament Shirt, Golfer's Prizes and
Awards Dinner
Sponsorship Opportunities Available:
Contact Mike West for details
(858) 503-7854 or
Mike@arconengineers.com

Mark your calendars for your day of fun in the sun! Watch for the flyer in the March issue of the SEAOSD newsletter, or go to www.seaosd.org for more information. Please join us for an enjoyable afternoon of golf with friends, as well as a chance to forge new relationships with other engineers, architects and members of the local construction community. This has proven to be a very fun and successful event. We are also looking for help in finding sponsors and donors for raffle prizes. If you are interested in participating, or want additional information, please contact us at:
SEAOSD Golf Committee
c/o Arcon Engineers
5625 Ruffin Road, Suite 130
San Diego, CA 92123
Ph. 858-503-7854/Fax 858-503-7858
(continued)

(Golf Tournament continued)
Mike West, Traci West or
Wayne Deming
mike@arconengineers.com
traci@arconengineers.com
wayne@arconengineers.com



Imaging Concrete with GPR (Ground Penetrating Radar) Los Angeles, CA February 20, 2007

Gain first-hand knowledge of this technology during a 3-hour workshop. Learn the basic principles of GPR, obtain hands-on experience with the latest technologies, discover the benefits and limitations of GPR with numerous case studies, and review PC based software tools for verification, documentation, and reports. For more information, visit www.sensoft.ca/t_cnrcrtimaging.html.

**Transitioning From the
97 UBC to the IBC
March 20, 2007- 8 am - 5 pm**
"Making the transition from the 1997 UBC to the 2006 IBC." This seminar, presented by the Structures and Codes Institutes, makes the transition smoother. The seminar is sponsored by S.K. Ghosh Associates, ICC and NCSEA. For more information call (847) 991-2700.

2007 SEAOSD EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

Have you completed a project or performed research that you would like to share with our local structural engineering community? See the insert in this month's newsletter for the Call for Entries for the 2007 San Diego awards program. Please note that some of the entry categories have changed from last year to match the 2007 statewide awards program. Entries do NOT need to be submitted to the local program to be eligible for the state awards, however all requested entry materials are the same to make it easier to enter both.

New AISC Specification/ Manual Seminar "Design Steel Your Way with the 2005 AISC Specification" San Diego, May 10, 2007

This is the AISC Specification Manual and Seminar you've been waiting for! Whether you design in ASD or LRFD, this seminar will accelerate your ability to design steel buildings according to the 2005 Specification for Structural Steel Buildings. For more information, view this link online:

[http://www.aisc.org/Content/NavigationMenu/Learning_Opportunities / Seminars/ New_AISC_Specification_Manual_Seminar/ New_AISC_Specification_Manual_Seminar.htm](http://www.aisc.org/Content/NavigationMenu/Learning_Opportunities/Seminars/New_AISC_Specification_Manual_Seminar/New_AISC_Specification_Manual_Seminar.htm)

Or call (800) 809-2364, or email steel@wyndhamjade.com.

MEMBERSHIP

POSTING FOR MEMBERSHIP

Oscar Iniguez, E.I.T.
R2H Engineering
Associate Member

Leandro Buriek, P.E.
Poggemeyer Design Group
Member

Jennifer Rhymer
UCSD
Student

NEW MEMBERS

Robert Tamaccio
Poggemeyer Design Group
Associate Member

Edward Desmond, E.I.T.
Poggemeyer Design Group
Associate Member



Job Forum

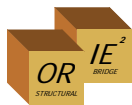


Degenkolb Engineers, an employee-owned company, has current openings in our San Diego office for PROJECT MANAGERS.

As recognized leaders in seismic engineering, we offer a diverse, challenging mix of projects on both new and existing structures. We also offer an excellent salary and benefits package. Minimum requirements are a MS with structural emphasis, SE license, and 6+ years experience in the structural/seismic field. Business development skills and 3+ years experience managing technical staff preferred. Also see www.degenkolb.com. EOE

Send resume and cover letter to:
Human Resources
Degenkolb Engineers
225 Broadway, Suite #1325
San Diego, CA 92101-5013
Fax: 619-515-0298
Email: recruitsd@degenkolb.com

San Francisco . Los Angeles. Portland
Oakland . San Diego. Seattle
www.degenkolb.com



Orie² Engineering
Structural and Bridge Engineers

Established in 2002, Orie2 Engineering is a small, but established Structural and Bridge Engineering firm who is respected by our clients for high quality work and responsiveness.

We work on a wide variety of projects including Fire Stations, wastewater treatment & pump stations, office, commercial & residential buildings, hospitals, bridges, and solar panel support projects.

We are seeking a Structural Drafter with 2-3 years of experience in Struc-

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tural drafting using AutoCAD. Candidates with experience in timber, steel, concrete and masonry structural drafting are sought.

We offer competitive compensation and comprehensive benefits including retirement savings, health insurance, and a relaxed and friendly work environment as well as an opportunity for learning, growth and career advancement.

Mail, fax or e-mail your resume to:

Orie2 Engineering
16980 Via Tazon, Suite 290
San Diego, CA 92127
Fax: 858-451-6142
email: jamesorie2@sbcglobal.net.



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?

MOFFATT & NICHOL

If you answered yes to the questions above, then the San Diego office of Moffatt & Nichol is the right place to

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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



As leaders in structural engineering since 1977, Wiseman+Rohy Structural Engineers is respected by our clients for our experience, high quality work and attention to detail.

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



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Job Forum



(continued from Page 3)

GNR Engineering Project Engineer

A team player willing to grow and be challenged in variety of projects including religious structures, upscale residential housing, car dealerships, office buildings, shopping centers and more. P.E. Licensing preferred. With 3-7 years of experience in wood, steel, concrete, and masonry buildings. We provide excellent benefit package. Great working environment, with supportive atmosphere.

Please send resume in confidence ASAP to George: George@gnrengineering.com WWW.GNREngineering.com



Structural Engineer

Simon Wong Engineering, a Scripps Ranch area firm, seeks a Structural Engineer with a minimum of 5 years experience in the structural design of buildings encompassing steel, concrete, masonry and timber. Applicant must have P.E., and good communication and computer skills. Masters degree a plus. We offer a comfortable work environment, competitive salary and excellent benefits. Please mail or fax your resume in confidence to:

Simon Wong Engineering
9968 Hibert Street, Suite 202
San Diego, CA 92131
Attn: HR-TL Fax (858) 566-6844



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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.

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: sclimmer@dci-engineers.com or fax: 619.234.0582, Suzanne Clemmer, 450 B Street #800, San Diego, CA 92101



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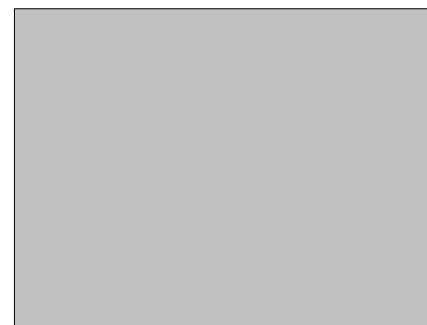


FrameMax Inc. is actively seeking motivated entry level engineers wanting to expand their knowledge to include cold formed steel.

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.



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.



SEAOSD Seismology Committee Update *by Doug Magee, Chair, SEAOSD Seismology*

The Seismology Committee's primary function, in years past, has been to develop, update and maintain the Association's publication, Recommended Lateral Force Requirements and Commentary (known as the Blue Book). This document has served as the basis for numerous building codes seismic design provisions. National documents, based on the original Blue Book, such as ASCE 7 and the IBC now provide seismic code requirements. In light of this, it was decided to orient the Blue Book towards the practice of structural engineering rather than code provisions. That original function, therefore, has been replaced by the task of developing a series of 'Blue Book Articles' which will provide understanding and design examples for the new codes such as ASCE 7 and the International Building Code. Previously drafted articles

are currently in the review process and will be posted on the SEAOC website, by the State Seismology Committee, as they are completed. This process will be somewhat time consuming due to changes required to make the articles conform to changing code provisions contained in reference documents like ASCE 7-02 & 7-05. Once the articles have been cleared, it is hoped that 3 to 4 articles will be posted, each quarter, on the SEAOC website.

The local Seismology Comm. also works, in support of the State Comm., on other publications such as the Seismic Design Manuals, review of current design practice questions and seismic code change proposals to the national code committees. Highlights of other recent activity or presentations to the Comm., state or local, are as follows:

- Proposed Changes to the 2006 IBC (ICC Hearings)
- Use of Autoclaved Areated Concrete (ACC) in Seismic Zones
- Alternate Seismic Design (Performance Based) of Tall Buildings
- Computer Model of Ground Motion and Structure Response in the L.A. Basin
- Position Statement for Design of Special Concentric Braced Frames (SCBF)

The Seismology Committee meets regularly on the fourth Tuesday of each month. We encourage any members, that are interested, to attend our meetings and participate in the discussions. Please contact me at douglas.magee@dgs.ca.gov or 858.674.5468 if you would like to come to a meeting.



Walterio Lopez draws 55 Members in January

The first SEAOSD Member dinner meeting of 2007 was held at a new location, The Doubletree Mission Valley, drawing 55 attendees to the event. The main speaker of the evening was Walterio López, Senior Associate at Rutherford & Chekene Structural & Geotechnical Engineers of San Francisco.

Mr. López's presentation provided SEAOSD members with a primer that covered the most important topics regarding buckling-restrained braced frames (BRBFs). Mr. López began his presentation by providing a historical background, particularly as it relates to SEAOC's involvement with the codification of BRBFs. He provided a sample list of BRBF building projects

throughout California, including San Diego. He illustrated different buckling-restrained brace (BRB) types by showing their application in actual construction.

Mr. López provided a graphical explanation of how BRB work and went on to describe some of the experimental studies conducted in support of U.S. projects. He described how research is reflected on the design provisions now in the 2005 edition of the AISC Seismic Provisions. He shared with the audience some of the free design resources available. He then covered code issues and status of the system with respect to state and national codes and touched upon alternate means of compliance.

He concluded his presentation by providing a very brief "how to" method on seismic design of BRBFs.

For more information about the presentation, contact Mr. López at wlopez@ruthchek.com or call 415-568-4400.

(Blast Simulator cont'd from Page 1)

structural elements such as columns, walls, and floors. The simulator is used to characterize blast effects on structural systems and to develop hardening technologies to protect structures from terrorist bomb attacks. Simulator test results compare favorably with field test results and are being used in analytical model validation. Standardized test protocols for product validation are also being developed. Photo and video of some of these tests will be shown.

(Speaker continued from Page 1)

navitics and Astronautics; the American Society of Mechanical Engineers (ASME); the Earthquake Engineering Research Institute; and the California Universities for Research on Earthquake Engineering. In 1996, Hegemier received the Jacobs School's annual Teacher of the Year Award. He is a Fellow of the ASME.



SEAOSD Fellows Night 2007



SEAOSD is pleased to announce that starting with the February 2007 meeting, and occurring annually thereafter, the Association will celebrate those individuals that have a long track-record of service, and have been designated as having the membership grade of "Fellow" in the Association. Starting with the founding of the Association back in the mid-1960s, and continuing until the present day, these individuals have a long history of contributions towards the betterment of our profession.

The first Fellows Night will celebrate the accomplishments and contributions of Thomas G. Atkinson, S.E. and Albert J. Blaylock, S.E.

Thomas G. Atkinson, S.E.

Tom Atkinson (CA S E No. 627) founded his San Diego engineering firm in 1953. The firm ran on a continuous basis until the end of 2004, hence becoming the longest continuously practicing structural engineering firm in San Diego. Tom was a charter member in the founding of our local association and has served as president of both SEAOSD and SEAOC. He has had a marvelous career in structural engineering, having served on numerous technical boards and committees and is the author of many publications. His engineering is reflected throughout San Diego and Southern California in association with structures such as the San Diego Convention Center, LDS San Diego Temple (Mormon Temple), and the Shelter Island Fishing Pier. Throughout his career, Tom has served as a mentor to many prominent engineers.

Albert J. Blaylock, S. E.

Albert J. Blaylock (CA S E No. 1119) founded the firm of A. J. Blaylock and Associates in 1960. His present firm, Blaylock Engineering Group, is the modern version of the original firm. Al was also a charter member in the founding of our local association and has served as president of both SEAOSD and SEAOC. He has had offices in Hawaii, Guam and the British Isles, and his engineering is reflected in many San Diego structures such as the original east and west terminals of the San Diego International Airport, structures at UCSD and SDSU as well as numerous naval facilities within the San Diego area. Al has served as president of the Board of Registration for Professional Engineers and Land Surveyors (BORPELS), and on numerous technical and engineering-related administrative committees.

Join us as we celebrate the distinguished careers and projects of these two eminent structural engineers. Their careers have served to pave the way for many of us as we practice structural engineering in San Diego.



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 Tuesday, February 20th at 4:00 PM at The Doubletree Mission Valley, 7450 Hazard Center Drive, 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:

NAME _____

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TITLE _____

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DO YOU PREFER MAIL AT WORK OR HOME? _____

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P.O. Box 26876, #203
San Diego, CA 92196-0876
Phone: (619) 223-9955

Or Email: secretary@seaosd.org

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Opinions expressed in the SEA-News are not necessarily those of the Structural Engineers Association of San Diego. Acceptance of advertising and informational brochures in the SEA-News does not constitute endorsement or approval of the products or services advertised by SEAOSD. * SEAOSD reserves the right to refuse any advertising.



Advertisement Policy



(President's Message continued from Page 1)

those individuals that were vital in the development of SEAOSD as well as the development of the structural engineering community in the San Diego area. It is also hoped that many of our "seasoned" members, such as myself, both active and retired, as well as younger members will join us at the meeting. I am looking forward to the interaction of different generations of engineers and the renewing of long-time friendships. This year we will be recognizing the contributions of two very deserving Fellows, Mr. Thomas Atkinson and Mr. Albert Blaylock. Both of these men were nominated as our initial inductees into the SEAOC College of Fellows and have had dramatic influences on the development of structural engineering in San Diego.

Also in the context of celebrating structural engineering, I would like to make you aware of some public outreach programs that SEAOSD is supporting and would encourage our members to support as well. This involves programs that our student chapter at UCSD have undertaken. In the next few months, the SCSE (Society of Civil and Structural Engineers) at UCSD will be hosting the ASCE Pacific Southwest Regional Student Conference and separately running a program of student outreach to some of the local elementary schools to promote future careers in engineering. The ASCE Pacific Southwest Regional Student Conference is occurring April 12th-14th, 2007 and is a large event in which students from Universities all over the southwest come to participate in engineering events and competitions. It even includes a Seismic Design event. It is anticipated that nearly 700 university students will be attending. The other program of an SCSE Student Outreach is a very interesting concept in which the UCSD students will interact for a couple of

(continued on Page 9)

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:

Mar 2007	02/09/07
Apr 2007	03/09/07
May 2007	04/13/07
June 2007	05/11/07

* 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



Professional Directory



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Geotechnical and Environmental Sciences Consultants

Avram Ninyo
Principal

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fax (858) 576-9600

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fax (213) 892-2206

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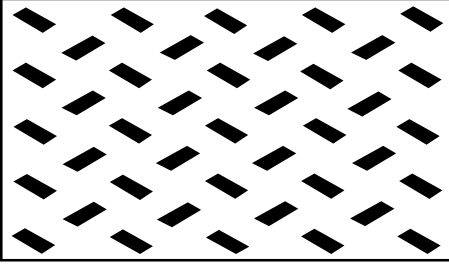
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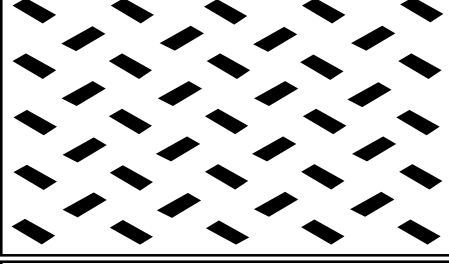
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The SEA-News Professional Directory listings are seen by over 350 association members each month. The listing cost is **\$330** per year for the July through June issues of SEA-News. Listings that are added before or after the July issue will have a prorated cost of **\$30** per issue from the month of initial listing to the following June issue. To be represented in the Professional Directory please send three copies of your business card and a check payable to SEAOSD to the address above.

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weeks with over one thousand elementary school students in their classrooms to promote an awareness and interest in structural engineering by designing and constructing small scale building structures using plastic K'NEX building kits. As a final event, the students will bring their structures to the outdoor shake table at the UCSD Englekirk Structural Engineering Center for a series of seismic tests over a two week period beginning March 19th. These are

both very admirable and daunting tasks for the student chapter and as you can imagine the funding and support from the University alone, is limited. There is a need for financial support and volunteer engineers to help with judging of the competitions and interacting with the students at both events. I would like to encourage our members and member firms to consider helping out where possible. Please contact our student liaison chairman Jim Conley at Hope Engineering for information if you are inter-

ested in providing assistance to these programs.

In closing, it was good to see that everyone made it over to the new venue for the meeting last month. I hope that everyone was as pleased as I was with the meal and atmosphere provided at the Doubletree Hotel and I will see you there again this month.

Christopher Kamp
President SEAOSD



SEA-NEWS

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Student Liaison/Scholarship	Jim Conley	(619) 232-4673	(619) 235-4675	jconley@hopeengineering.com
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