

*October 7th South Bay Program***Practical Application of
Simulation in Seismic
Engineering**

Eric Ko, S.E., Principal of
Structural Engineering, ARUP

By Hamid Fatehi, Program Chair

The practice of structural engineering is evolving to utilize new and emerging technologies. Two such technologies are buckling-restraint braced frame, also known as unbonded brace, and enhanced moment joint. Eric Ko, S.E., of ARUP's San Francisco office, will share his experience on the application of simulation in seismic engineering, using the two technologies as examples; ARUP integrates research, design and computer simulation for these concepts. October's SEAONC South Bay Meeting will expand on the use of computer finite element models to simulate test specimens; the application of loading protocols that are the same as for full-scale testing; correlation of results; and the use of computer simulation in optimizing project specific performance objectives.

Eric received the 2000 H.J. Brunnier Award for his work on the Unbonded Brace. In 2003 Eric was named one of ENR's Top 25 Newsmakers for his work. Under his guidance, ARUP's Kaiser Santa Clara Medical Center project won the 2003 SEAONC Excellence in Structural Engineering.

A Message from the President

Last month in this column I provided an update on the State Building Code adoption situation in California, noting that our Building Standards Commission voted to adopt the NFPA 5000 as our next building code rather than the IBC, which was SEAOC's preference. While political uncertainties may continuously cast doubt as to the direction of the Commission, it is worth looking ahead to the process that has evolved in California and the US relative to seismic codes. This process is one that is relatively independent of politics.

Starting in 1995 when the three model code agencies agreed to form the International Code Council and produce the IBC, and long before an

NFPA building code was envisioned, the process of US seismic code development began to shift gradually from a SEAOC activity to a national one. This meant that our Seismology Committee, which had been the keeper of the seismic standard going back to the first Blue Book in 1959, would relinquish this role to one or more national committees. This process took several years to evolve but the transition has now been completed.

In the future, whether an engineer designs buildings using the IBC or NFPA 5000, the seismic provisions will look similar. That is because both codes will adopt seismic requirements by reference to ASCE 7. (The IBC and NFPA 5000 are *codes* and ASCE 7 is a *standard*.) Although the evolution of the two codes has resulted in technical difference in the 2003 editions, this should cease to be an issue once the 2005 version of ASCE 7 becomes the country's reference standard. It is expected that the 2006 editions of both codes will adopt ASCE 7-05 without significant technical modification.

In this new world of seismic code development the role once played by the Seismology Committee in the development of UBC Chapter 16 (based on the Blue Book) is carried

**Meeting
Notice****Tuesday, October 7th, 2003**

Assembly	5:45
Dinner	6:30
Program	7:30

Michael's at Shoreline

*2960 North Shoreline
Mountain View*

Fax registration form on the back of
this newsletter to the SEAONC office by
12 noon Friday, Oct. 3rd, 2003

FAX: 415-764-4915

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out by the Building Seismic Safety Council (BSSC) and the ASCE 7 Seismic Task Committee. The BSSC, through its NEHRP Provisions, addresses developing seismic technologies, while ASCE 7 addresses code applications. In addition, the standards committees of ACI, AISC, NFPA and TMS, contribute more independently to the code process than in the past. This will tend to minimize differences in the materials chapters, since for example, we will not expect to find technical provisions on shear wall design in the codes, but rather in ACI 318, the reference standard for concrete.

Our membership can take comfort in knowing that SEAOC members play leadership roles in all of the above mentioned organizations. So while the *nationalization* of the seismic code development effort has officially taken the SEAOC Seismology Committee out of the lead role, it has not taken SEAOC members out of it. In addition, SEAOC has an official link to the process through NCSEA, which maintains a Seismic Code Advisory Committee, as well as Existing Buildings and General committees. This gives our own SEAOC committees a vehicle for direct input into the process at all levels.

Incidentally, I received my ballot in the mail yesterday from the State and was able to identify among the candidates for Governor one Bill Vaughn, Structural Engineer, and of course, SEAONC member. The name is no harder to find among the hundred thirty-some candidates than, say, Arnold Schwarzenegger or Cruz

Bustamante. Bill, as you probably know, has put up his own money to have the opportunity to make a statement about the inadequacies of our State Building Standards Commission. It's a start.

- David Bonneville, President



OLMM 1/6 page ad

CALENDAR OF EVENTS



October 7

Monthly Dinner Meeting
Michael's at Shoreline
Mountain View

October 8

Business Forum Luncheon
The City Club, San Francisco

October 9

LGSEA Northern California
Chapter Kickoff Meeting
AIA East Bay Office, Oakland

October 16

YMF Meeting
Jillian's at Metreon, San Francisco

October 23 - 25

11th Annual NCSEA Conference
Marriott Denver City Center
Denver, Colorado

November 11 & 18

Fall 2003 Seminar
Light Gauge Steel Construction
Continuing Education Committee
PG&E Auditorium, San Francisco

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LEGISLATIVE

State Legislature Goes Back to Work

By David Wilson, Legislative Committee Chair

The California State Legislature went back into session on August 18, 2003. The session ended again September 12, 2003 and all the bills have been rejected, held, or forwarded to the Governor for his signature. During the end of the legislative session, many last minute changes and amendments are typically made to the pending bills. At the time of the writing of this article, the following legislation that has an impact on the construction industry and the professional practice of civil/structural engineering was pending:

AB 692 (Dutra) - Design-build entity employed by a local transportation authority would be required to use Caltrans staff to design its projects if they are on the state-highway. This bill is sponsored by Caltrans.

AB 1486 (Dutra) - Authorizes design-build for state projects sponsored by the State Department of General Services but requires all inspection be performed by state employees. Both this bill and AB 692 are in direct conflict with the California Constitution (proposition 35).

SB 711 (Kuehl) - Establishes a state land use control over lands containing oak trees. Landowners would be required to preserve oak trees at a 2-1 ratio even if the landowner is not proposing to cut down a single oak tree. This bill could kill or slow down many major projects.

In other legislative related news, PECG has donated \$700,000 to the Bustamante for Governor campaign to replace Governor Davis in the October recall election. In addition, PECG recently suffered a setback when on August 12, 2003, a San Francisco Judge denied PECG's request for a preliminary injunction, demurrer, and motion to strike proposition 35 from the California Constitution. The battle to overturn proposition 35 will continue.

Proposition 53, the California Future Initiative, would allocate a long term escalating percentage of the state's general fund to infrastructure improvements, and will appear on the October 7 ballot. The passage of this proposition could positively impact the engineering profession.

The October 7, 2003 statewide special election includes Bill Vaughn, S.E. and SEAONC member, among other candidates along with the Governor recall issue.

If you would like more information about the SEAONC Legislative Committee, please contact David Wilson, Chair, at dwilson@cdengineers.com.

CONTINUING EDUCATION

Fall 2003 Seminar

By Taryn Williams, CEC Vice Chair

The Fall 2003 Seminar will be held on November 11th and 18th at the PG & E Auditorium in San Francisco. The topic of the seminar will be Light Gauge Steel Construction, and talks will focus on lateral and gravity systems, detailing (including OSHPD projects), cladding, and combined uses with other materials. Look for the flyer in next month's newsletter for signup information and more details.



SEISMOLOGY & STRUCTURAL STANDARDS Committee Meeting

October 28th, 5:30 p.m.

Rutherford & Chekene
427 13th St., Oakland
(510) 740-3200

Business Forum
Simin Naaseh
415/837-0700
simin@forell.com

Bylaws
J.E. Goudie
925/933-5876

Computer Applications
(TBD)

Construction Quality Assurance
Art Dell
415/989-9900
adell@soha.com

Continuing Education
Troy Morgan
415/837-0700
troy@forell.com

Disaster Emergency Services
Joe Zsutty
408/298-9018
jzsutty@aol.com

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dbonowitz@mindspring.com

Legislative
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dbhom@degenkolb.com

Young Members Forum
Ali Afrasiabi
650/494-1600
aafraziabi@umerani.com

Website Committee

SEAONC Website Launches New Member Features

By Darrick B. Hom

We are pleased to announce that we have upgraded the SEAONC Website with new features exclusive to SEAONC members! The roster is now dynamically online, allowing members to change their membership information online automatically. We have added the DES Phone Tree Directory online as well. In order to access these new features, you will need a username and password. This information has been mailed to your business email address that we currently have on file.

If we do not have an email address on file for you, you will not be able to access the new features initially. Please contact the SEAONC office at office@seaonc.org and we will be happy to set up your access. If you have any questions or difficulties accessing the new features, please feel free to contact the SEAONC office. We hope you find these new features useful and take advantage of all the website has to offer.



New Members

Member

Julia Hunting

*Project Engineer, KPFF
Consulting Engineers*

Craig Lewis

Project Engineer, Winzler & Kelly

Chris Morton

*Project Engineer, Hohbach-
Lewin, Inc.*

Thomas Wismar

Project Engineer, DASSE Design

Associate

Daniel Bech

*Design Engineer, GKO &
Associates*

Joanne Fong

*Staff Engineer, Summit
Engineering, Inc.*

Jason Horwedel

Degenkolb Engineers

Jennifer Lovejoy

*Engineer, EIT, Simpson Gumpertz
& Heger, Inc.*

Industry

Richard Gibson

*Senior Vice President, Dealey,
Renton & Associates*



*Thank you to the following
members and firms who
contributed to the SEAONC
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month:*

\$100 - \$51

Sako Noravian

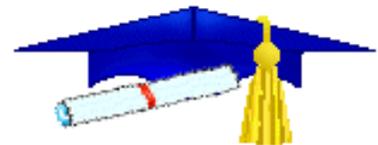
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Bulletin Board

Light Gauge Steel Engineers Association
Northern California Chapter

KICKOFF MEETING

Over the last decade, we have learned a great deal about the performance of cold-formed steel shearwalls. Extensive testing has revealed some of the strengths and limitations of shearwall construction using cold-formed steel studs and related assemblies. Much of this testing has been under the direct supervision of Dr. Reynaud Serrette, at Santa Clara University in California. Much of the information currently in many of today's building codes is based on Dr. Serrette's work. This course will review and summarize some of the key characteristics of performance revealed during the testing, and how a structural engineer or designer may incorporate these results in their design, to provide safe structures that can resist wind and seismic loads.

Date: October 9, 2003 @ 12:00 noon
Location: AIA East Bay Offices
1405 Clay Street
Oakland, California
Cost: \$75 in advance, \$95 at the door
(lunch will be provided)
Contact: Sally Phillips - AIA East Bay
(510) 464-3600

National Council - SEA

ELEVENTH ANNUAL CONFERENCE

"Earth, Wind & Snow: Challenges
from Mountain and Plain"

October 23 - 25, 2003

Marriott Denver City Center

Denver, Colorado 80202

Member Registration Fee: \$495

Companion Registration Fee: \$225

WINTER INSTITUTE

January 23 - 24, 2004

Millennium Resort

Scottsdale McCormick Ranch

Scottsdale, Arizona

(program details TBA)

Please visit www.ncsea.com for more
details on these upcoming events,
including registration forms, program
highlights and schedules.

Business Forum

OCTOBER LUNCHEON

City Club - San Francisco

155 Sansome Street, Game Room, 10th Floor

Wednesday, October 8th, 2003 from 12:00p.m. - 1:30 p.m.

In Search of Alternatives to Control Professional Liability E&O Insurance Costs

Professional liability E&O insurance premiums have skyrocketed in the past several years with premiums rising 30-70% or more. Increasing insurance costs have led to a search for more affordable alternatives. An example is the explosion in the formation of captive insurance companies or simply, "captives." A captive is essentially a mutual insurance company, wholly owned and capitalized by its policy holders. Its goal is to keep long term insurance costs stable for its members, not to maximize investment returns. By controlling claims through shared accountability and by returning investment gains to its members, premiums are kept low, stable and predictable. Structural engineers, already saddled with low margins and the effects of a slow economy, should at least be able to take advantage of their renowned attention to detail and risk aversion by not paying insurance that exceeds their true risks.

To help our members explore possible insurance alternatives, we have invited SEAONC member Evan Reis, Vice President of Comartin-Reis, to facilitate a discussion of "captives" as one possible option, with a presentation of opportunities, benefits and costs. Evan Reis has done research on captives and will discuss how forming a captive insurance company within the engineering community may reduce operating costs and help provide long-term business stability. He will also discuss the different types of captives available to our community, how to establish whether a captive is right for us, how to set up a captive, the costs of participating, raising initial capital, how a captive is managed and who can join.

Please join us for a presentation on this important and timely topic. We hope for an interactive discussion, so please bring your questions and any other ideas you may have for dealing with the current liability insurance crisis.

We encourage your active participation in the Business Forum. If you have any suggestions for future meeting topics please contact Business Forum Chair, Simin Naaseh, at 415/837-0700 or e-mail: simin@forell.com

Cost: \$20.00 Business Forum Member
\$30.00 Non-Business Forum Member

Meal Selections: Chicken, Flank Steak, or Pasta

RSVP: Contact the SEAONC Office via e-mail at: seaonc@ix.netcom.com (or phone 415-974-5147)
Registration Deadline: Monday, October 6th, by 12:00 p.m. Space is limited so register early.

NOTE: Our apologies for the cancellation of last month's program due to the speaker's illness.

YOUNGER MEMBER FORUM

YMF Announces New Vice Chair!

YMF would like to announce our new Vice Chair Tim Graf. Tim Graduated from the University Of Illinois and works for Degenkolb Engineers in San Francisco.

YMF Monthly Meeting at the Metreon

Please join us on Thursday, October 16th at 5:30 p.m. to play pool, drink beer and hang out with friends. This will take place at Jillian's inside the Metreon in San Francisco.

To RSVP, e-mail Ali Afrasiabi at aafraziabi@umerani.com or call at (650) 494-1600.

Hope to see you there!

Forell/Elsesser Engineers, an award-winning structural/civil engineering firm, offers outstanding career opportunities to engineers and CAD drafters with all levels of experience who seek a dynamic, challenging and rewarding work environment (www.forell.com). Work on exciting projects and collaborate with innovative design engineers. We offer an unparalleled salary & benefits package, including employer matched 401(k), pension and incentive compensation plans. Contact: Jim Guthrie, 160 Pine St. #600, San Francisco, CA 94111; fax 415/837-0800 or jim@forell.com

Structural Engineer - Are you dynamic, competitive, creative? **Marr Shaffer & Miyamoto** is ready for you. Established over a half a century ago, MSM is one of the most respected engineering firms, with an office in Pasadena and Sacramento. Our projects range from complex high-rise structures to commercial buildings with expertise in seismic rehabilitation and state-of-the-art design procedures. In earthquake engineering we design retrofits and new buildings with dampers, base isolators and fiber reinforced plastic. We are seeking project engineers, project managers, and CAD drafters. Communication skills and a commitment to be the best are essential. We offer a great working environment, a complete benefit package, and a chance to take a great life journey! Check out our website at www.msm1.com for more information. If you are ambitious and have a minimum 2+ years experience with a variety of building materials (steel, concrete, timber), please submit your resume to resume@msm1.com

Tipping Mar & Associates is an award winning structural engineering firm. We have an enthusiastic staff of 17 who work collaboratively. Our approach is innovative, and our projects are diverse. We are seeking a bright, creative, self-motivated individual for a challenging position as a structural engineer. Please send your resume with a cover letter to Tipping Mar & Associates, 1906 Shattuck Ave, Berkeley, CA 94704, fax to 510-549-1912, or e-mail steve@tippingmar.com

KPFF Consulting Engineers is seeking Project Managers and Engineers for full time employment. Applicants must be motivated and possess excellent written and verbal skills. KPFF offers our employees an environment that supports personal growth, education and training, and the freedom to pursue individual career goals. If you have at least 3 years of design experience, a PE license, an advanced degree in structural engineering, and an interest in Structural Design, we want to hear from you. Send cover letter and resume to KPFF 1160 Battery St., Suite 300, SF, CA 94111. EOE

Umerani Associates, structural engineering firm located in Palo Alto, specialized in Civic, Educational & Healthcare facilities, is seeking self-motivated engineers with strong technical & management skills. 3 to 15 years of experience in computer analyses and design of steel, concrete, wood & masonry structures is preferred. Firm is also seeking experienced CAD draft-persons. Please send resume to Jawed Umerani, 4020 Fabian Way, Suite 302, Palo Alto, CA 94303.

Tel: (650) 494-1600, e-mail: jumerani@umerani.com

TEAC Consulting Engineers, a reputable structural engineering firm located in San Ramon, is seeking Junior level Project Engineers and Senior level Project Managers. We offer a great working environment with a challenging variety of residential and light commercial projects. We specialize in Production Housing (Wood and Light-Gauge Steel), Custom Estates, Retail and Commercial structures. We are seeking motivated engineers that have a minimum of 2 years of relevant experience with a variety of building materials including wood, light-gauge steel, steel, concrete and masonry. Proficiency in Timber design is highly desirable. Our compensation is very competitive and we have a strong benefits package including flexible hours, full family Medical and Dental Coverage and an Employer Matched 401K. Send resumes by fax to 925-275-0126 or e-mail to employ@teacengineers.com. No resume prepared, but you think you are an ideal candidate? Call Allison Tabor at 925-275-0110, Ext. 105.

Hohbach-Lewin, Inc. is currently hiring engineers for its Palo Alto and San Francisco offices. Current projects are predominantly in the commercial, educational and residential markets. For more info, visit our website at www.hohbach-lewin.com Successful candidates will be self-motivated, good communicators and have a strong technical background. Fax your resume to (650) 617-5930 or email: dlewin@hohbach-lewin.com

A.T. Merovich & Associates, Inc. seeks CA licensed SE, 10 years exp. for Sr. Project Engineer position. Candidates should possess MS degree and strong background in response of buildings to earthquake effects. Work collaboratively with senior engineers applying state of the art earthquake engineering tools and advance professionally assisting in staff supervision, project management and client relationship development. Contact us at atmainc.net.

Vulcraft seeks engineer having 0 to 5 years of professional experience for structural material engineering estimates and project management in East Bay location. Excellent opportunity to use engineering in the promotion and proper use of engineered products. Excellent verbal and written communication skills required along with proficiency in Excel. Excellent benefits / Salary commensurate w/experience & abilities. Fax 925-229-2469

Tri-Valley Engineering, LTD has unique employment opportunities for Civil/Structural design engineers and CADD Draftsmen wishing to work in a non-conventional environment. Our firm uses "telecommuting" methods, requiring little or no time to be spent in our office. Successful candidates will have a BSCE minimum, with 1-5 yrs. experience in structural design of commercial and residential buildings using wood, concrete, masonry and steel design. C.E. or S.E. license a plus, but not required. Computer literacy, home computer and Internet access on-line is required. E-mail resume to mail to: wgjones@trivalleyengineering.com, by fax to 925/462-9289, or by "snail-

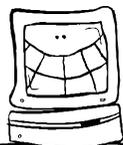
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NISHKIAN MENNINGER SEEKS EXPERIENCED REGISTERED ENGINEER with 5 or more years experience in various types of structures; office buildings, high-rises, schools, multiple-tenant residential & other commercial projects, garages and seismic rehab. Resume & salary requirement to: 1095 Folsom Street, San Francisco, CA 94103 or e-mail: lnishkian@nishkian.com.

GFDS Engineers has been providing structural engineering services from its San Francisco office for over 40 years and is dedicated to quality design and a thoughtful approach to integrating structure and architecture. We are looking for a bright, creative individual with a minimum of 5 years experience in the design and detailing of projects with structural and architectural distinction. MSCE and SE preferred. Please email your resume to linda@gfdseng.com

**November News
deadline:
Friday, Oct. 10th, 2003**

**Submit your articles by
e-mail to:
SEAONC@ix.netcom.com**



Job Forum Insertion Fees:

**\$150 for up to 450
characters/spaces**

**\$15 for each 45
characters/spaces
thereafter**

**All job forum ads will be
posted on the SEAONC
web site.**

DISPLAY ADS

Full Page	\$900/mo.
2/3 Page	\$600/mo.
1/2 Page	\$480/mo.
1/3 Page	\$360/mo.
1/4 Page	\$270/mo.
1/6 Page	\$225/mo.

Rates are for finished camera-ready black and white ads or proofed PDF files with embedded fonts. *Full payment is required at time of insertion order.* For advertising contract, size specifications, and special rates for running an ad for multiple months, contact the SEAONC Office at seaonc@ix.netcom.com or phone 415/974-5147.

Response to Open Forum in September newsletter, “*Captivating*” Opportunities

Mr. Reis has introduced two concepts in his article titled “*Captivating Opportunities*” that I would like to shed some light on.

First is the issue of rising insurance rates. When the price of anything rises, some always assume that they are being gouged by corporate chieftains. Sometimes they are correct (and when they are, competition, or the government, comes to the rescue), and sometimes they are not. In the case of rising insurance costs, I do not believe that gouging is the cause.

Insurance rates are a function of structural engineering firm billings, the type of work they do, and their own claims history. Some firms pay more than others all the time, and rightly so. Over the past 10 years or so, until recently, insurance costs to firms (not rates) have generally stayed flat, but rates have fallen year over year when measured against firm revenue. In the mid to late 1990s, the country went through one of the largest construction booms in history, and the size and annual billed revenue of most SE firms increased significantly. But at the same time, so did the exposure of most insurers as more engineering work was being done, but rates (the premium dollar available to protect each dollar of SE revenue earned) were falling. Since the late 1980s, rates for architects and engineers dropped by as much as 60% rendering the business unprofitable for insurance companies.

Why were rates falling? There were too many companies in the market vying for the same accounts. When stock market returns soared, several insurers branched out from their core businesses to enter professional liability lines. Given that it typically takes several years for a problem to become apparent and a claim filed, new entrants wrote policies in an expanding market with the hope that they could get out of the market before they had to settle any claims. To engineers, this might seem like a risky business venture, but it is done all the time. Excessive competition was a major reason insurance costs stayed flat and insurance rates dropped during the 1990s. Also, new market entrants, into what many consider a commodity market, often used price as the means for gaining market share. Just as engineers and architects do, established insurance companies in the market for the long haul had to lower their prices to keep their clients. In these times, engineers benefited by paying low rates.

The entrants are gone now or are leaving. Soon only the long-term insurance companies will be in the market to write policies at responsible premiums and pay claims. It is only right that insurance companies make a profit, since it is only under those conditions that they will be in business to provide structural engineers with the insurance coverage we need. If structural engineers didn't make a profit, how long could they stay in business? Before claiming that insurance costs are skyrocketing, take a few minutes to compare them to what you paid 10 years ago as a percentage of revenue, factor in inflation and your own claims history and that of others in the industry, and then make your judgment.

In addition, the types of investments that U.S. insurance companies can make with premium dollars is also highly regulated (mainly bonds and conservative stocks), as are insurance rates charged. The National

Association of Insurance Commissioners (NAIC) and the Securities Valuation Office set out rules for allowable investment grades and percentage limits by investment categories. Each insurance company is bound to follow its rate filings as approved by the individual state insurance commissioners and thus cannot raise rates in an arbitrary manner.

I would also like to comment on the idea of starting your own insurance business, as advocated by Mr. Reis. I believe that generally, engineers should focus on businesses in which they have a comparative advantage over others, like engineering. SEs don't make paper, erasers, computers, cars, or the myriad of other items they use everyday, and they shouldn't, since they would likely all go bankrupt trying! We also haven't started our own HMOs, although healthcare costs are high (much higher than E & O insurance), nor have we tackled worker's compensation insurance either. There is certainly nothing wrong with working to reduce costs, improving benefits, or speaking with your elected representatives to address perceived wrongs, (and the world would be a dull place if a few adventurers didn't try) but frankly most engineers (as smart as we all think we are) do not have the background, skill sets, or financial resources to start or run insurance companies. There is a sufficient number of insurance companies to create a competitive marketplace for E&O coverage. Market dynamics will bring premiums to a level that is fair to all parties; one that doesn't gouge the design firm and one that rewards the insurance company for the risk it takes.

That is not to say that the captive firms haven't been formed before, and haven't been successful. Besides DPIC's origins, I know of one other “captive” formed by geotechnical engineers that has succeeded. The major hurdle that they, and others considering the idea, had to overcome, is the fact that insurance claims are low frequency, high severity events. Unless you have very large sums of money, or firms with very low risks, a large claim in the first few years (probably by one of your partners!) wipes out your capital base, leaving no money to protect you. You also need to have the staff (or your own time), and the capability to defend claims and run other aspects of the business. It seems to me that the risk to the investment capital is far too high compared against the small benefit gained by not buying insurance from an established carrier. It would be better for SEs to use their hard-earned profits for other purposes.

On the whole, the best thing that SEs can do to control their E & O insurance costs is what we have always done: perform our work properly, select our clients carefully, assess project specific factors, have proper contracts with well-defined scopes of services, and only work in our own area of competence. As for insurance companies, there are a few long-standing providers that have weathered the test of time and served the interests of the design community in balance with their stockholders' interest. That's the kind of company I can trust with my asset protection.

– John Dal Pino, Senior Principal, Degenkolb Engineers
President, SERMC Council

*Ad for
Computers and Structures*

upcoming events

OCT

- 7 South Bay Dinner Meeting
Michael's at Shoreline, Mountain View
- 8 Business Forum Luncheon
The City Club, San Francisco
- 16 YMF Meeting
Jillian (Metreon), San Francisco
- 28 Seismology & Structural Standards Committee Meeting
Rutherford & Chekene, Oakland

NOV

- 11 & 18 Continuing Education Committee
Fall 2003 Seminar

Registration

Structural Engineers Association of Northern California

October 7TH SEAONC DINNER PROGRAM, SOUTH BAY, MICHAEL'S AT SHORELINE

5:45 pm

General Assembly

If no label is shown above, or for guests, please fill in the form below.

NAME _____

6:30 pm

Dinner

COMPANY _____

ADDRESS _____

7:30 pm

Program

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____

Location:

Michaels's at Shoreline
2960 North Shoreline
Mountain View

RSVP by Fax: 415/ 764-4915, Phone: 415/ 974-5147, e-mail: seaonc@ix.netcom.com

Deadline for pre-registration: 12 noon, Friday, October 3rd, 2003

Make check payable to SEAONC and bring with you to the door.

Register early! Dinner and program reservations are limited. No cancellations after 12 noon, Friday, October 3rd, 2003. No-shows will be invoiced. Tickets not claimed by 6:45 p.m. on the night of the event are subject to being sold. Note: Individuals with outstanding monthly meeting balances are required to pay in advance for a meeting reservation and pay all outstanding monthly meeting invoices.

COST:	PRE-REGISTERED	LATE REGISTERED (After Deadline)
SEAONC Member	<input type="checkbox"/> \$28	<input type="checkbox"/> \$33
Junior Mbr (29 and under)	<input type="checkbox"/> \$20	<input type="checkbox"/> \$25
Non-Member	<input type="checkbox"/> \$33	<input type="checkbox"/> \$38
Student	<input type="checkbox"/> \$15	<input type="checkbox"/> \$15