

*A Message from the President*

## Annual Report from the President

It is truly hard to believe that this will be my last newsletter article as President of SEAONC. The year has gone by very rapidly, yet much has taken place. I have greatly enjoyed the experience and honor of being your President and I have enjoyed working with all of those who have contributed so greatly to this year's administration.

I hope that many of you will be able to join us for this year's Annual Business Meeting on Tuesday, June 4. At this meeting we will report on the status of the Association, host our past Presidents, Life Members, and other distinguished colleagues; present awards for engineering excellence; and recognize special contributions of individuals to our Association and profession. I will have the honor to turn the gavel over to Steve Tipping, who I am certain will be an outstanding President for SEAONC in 2002-2003. This is always an enjoyable evening when we take the opportunity to celebrate our achievements as a profession and an organization.

Financially, the Association is healthy despite a strong downturn in the local economy. We have had a year where we have balanced the budget without spending reserves. We were able to have many new and existing programs continue without cut backs, which is a tribute to our members and your support. The program committee, chaired by Jamie Curry, gave us many fine dinner meeting presentations, including three inaugural South Bay dinner meetings. The South Bay dinner meetings seemed to be the just right thing to spark and keep interest from our valued members in the South Bay region.

Our Continuing Education Committee,

*Continued on page 4*

*June 4th Dinner Meeting Program*



*Jon P. Kiland, President 2001-02*



*Steven B. Tipping, President 2002-03*

## Attend the 2002 Annual Awards Meeting on June 4th

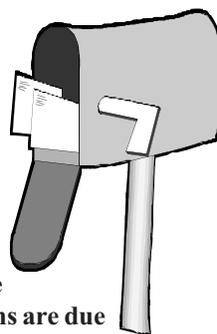
SEAONC's June 4th dinner meeting will be the traditional Annual Awards meeting. This meeting marks the close of the fiscal year 2001-2002 and the beginning of the 2002-2003 season. SEAONC's guests will include past Presidents; Honorary, Life, and Fellow members; and award recipients.

Presentations on this past year's achievements will be given, and winners of the SEAONC Excellence in Structural Engineering awards, Senior Scholarship awards, and honorees for the Community Involvement, H. J. Brunner Lifetime Achievement, and Edwin G. Zacher awards will be announced. Two members will also be elevated to Fellow and Honorary Member status.

President-elect Steve Tipping will succeed President Jon Kiland, and three new 2002-2004 Board Members will be announced and installed. Join us to install our new President, Officers, and Directors and to honor our outstanding peers.

### Attention Voting Members:

**SEND IN  
YOUR  
BALLOTS!**



**Ballots for the  
SEAONC elections are due  
in the SEAONC office no  
later than noon, June 4th,  
2002. DON'T FORGET!**

### *Meeting Notice*

**Annual Awards Meeting  
June 4th, 2002**

**The City Club**  
*155 Sansome Street, 10th Floor  
San Francisco*

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

Fax registration form on the back of this  
newsletter to the SEAONC office by  
**12 noon Friday, May 31st**

# REBUILDING TOGETHER 2002

by Jennifer Masich Lynn



**R**ebuilding Together 2002 was a huge success! We had a turnout of 80 volunteers on Saturday, April 27th, who completed a wide range of projects at the home of Masako Takemura, in San Francisco's Sunset District.

A week before Rebuilding Day, a small team applied drywall to much of the exposed framing on the water-damaged walls.

On the day of Rebuilding Together, the volunteers formed 15 teams, each taking responsibility for a different part of the house. The teams

Painted the exterior of the house; sanded and painted most of the rooms; replaced the ancient kitchen appliances; added handrails, stair treads, smoke detectors, and new light fixtures; revamped the elec-



In an e-mail sent to the volunteers, after Rebuilding Day, Mrs. Takemura's daughter, Dee, said the following:

"My mother now smiles more.... I no longer feel that I have to hide in my house and feel embarrassed, ashamed and apologetic about our home. We now have the full use of the house (whereas before, we felt unsafe and too cold to spend any time on the second floor. Before, we would cook our food and bring our meals up to our bedroom to eat). When my mother and I think back to our old lifestyle, we are amazed and grateful that strangers, like yourselves, gave and cared so much."

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*"My Mother now smiles more..."*

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trical set-up; repaired sash windows; built storage shelves; cast a new concrete landing at the back stairs; restored plumbing to the upstairs bathroom; and TONS more. All in one day!!

Rebuilding Together is also arranging for the repair of the heating system, which has not worked for years.

The day ended with a great sense of accomplishment, and the volunteers have expressed much happiness for having been involved.



The construction captains this year were John Westphal and Jim Passaglia, the volunteer captain was Jennifer Masich Lynn, and Regan Milam was our accounts captain.

Special recognition is due to John, whose shoulders carried the heaviest burden, and whose dedication made for a seamless event.



SEAONC sponsors a home for Rebuilding Together by providing volunteers and funding. That funding is made up solely of generous donations from firms and individual members, who deserve our recognition and thanks. And, of course, none of these tasks would have been accomplished without the contributions from our tireless volunteers!

## The Donors

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## The Volunteers

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Ya-Yung Cheng	Wes Griffith	Abe Lynn	Kate Stillwell
Ophelia Chiu	Kelly Grubb	Jennifer Masich Lynn	Michael Stuppin
Steve Choy	Katy Hollbacher	Kevin Ma	Tom Swarz
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Adam Costello	Blake Hoskisson	Michelle Mak	Bryce Tanner
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Sean DeGaetano	June James	Nick Neguse	Bette Tsai
Paul Degenkolb	Jessica Jones	Jim Passaglia	Arie Villasol
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Bruce Dubois	Victor Kozaczuk	Kailas Rajan	John Westphal
Joellen Dutcher	Allen Kwan	Colin Ransdell	Taryn Williams
Jeffrey Falero	Roxana Lau	Josh Richards	David Wilson
			Monika Witte



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*May 7th Program Wrap-Up*  
*Meeting at the City Club, San Francisco*

# Moscone Convention Center Expansion Project

**Raj Sahai and Jack Laws, Structural Design Engineers, and  
Hamid Fatehi, Faye Bernstein and Associates**

*by Jamison Curry, Program Committee Chair*

Thanks to Raj Sahai and Jack Laws of Structural Design Engineers (SDE) and Hamid Fatehi of Faye Bernstein and Associates for a very substantive presentation about the Moscone Center Expansion.

The project is the third phase of the Moscone Center Expansion. Associated architects for the project were Gensler, Michael Willis, and Kwan Henmi. The 800,000 square foot building will contain pre-function lobbies and 300,000 square feet of exhibit halls, among other things. The three exhibit floors have a story-to-story height of 37'-4", over a basement floor. Hunt Construction, the winning contractor, gave a bid price of \$169 million, below the construction budget of \$182 million.

The code utilized for design was the 1997 UBC – a site-specific spectrum was provided by Treadwell & Rollo, one of two project geotechnical firms. The other was Trans Pacific Geotechnical Consultants. Soil type was Sd; I used for design was 1.0 and R was 8.5. Wind load requirements were 70 miles per hour with Exposure B. A wind tunnel study was also performed and used primarily for cladding design.

Mr. Laws began by talking about the long span truss framing. Design was performed for a live load of 125 psf and for a moving load to represent fork lifts used for setting up in the exhibit halls. Composite floors were 7 1/4" thick with lightweight concrete fill. Trusses, which spanned 90 to 200 feet, utilized Grade 65 W14 chords and bolted connections. Live load deflection was limited to 1/600 of the span; total load deflection was limited to 1/400. The largest shop-built roof truss was assembled in the field and had five 40'-0" segments, spliced together. The largest floor girder truss weighed 35 tons, when erected. Typical columns were box sections or W sections.

Mr. Fatehi then talked about the foundation – it was typically a 2'-6" thick mat with 5'-0" thickened portions. The basement floor system consisted of a 6" thick slab over a 2'-6" layer of drain rock over the mat foundation. The drain rock performs as a backup to the foundation waterproofing. The 25,000 cubic yard mat was poured in eight segments. Pedestals supporting columns were utilized in the 30'-0" x 30'-0" basement bays to help mitigate punching shear stresses. Perimeter basement walls were 18" thick and were slip-formed in 60'-0" segments, with the forms advancing 18" per hour.

Mr. Fatehi continued his talk with a description of the curtain wall system. Glass, metal panels, and precast concrete panels were used. Vertical spans of the curtain wall were 37'-4" to 112'-0". The curtain wall was required to accommodate the 4-1/2" interstory drift (13-1/2" at the roof) at a DBE level. The glass curtain wall was supported with vertical bowstring trusses at 30'-0" o.c. with intermediate tie rod supports at 10'-0" o.c.

Mr. Sahai finished the evening by describing the lateral system. The building utilized a proprietary system that SDE developed and had tested - the Coupled Girder Moment Resisting System. The building has four of these frames in each principal direction. The girders in the frames are essentially Vierendeel trusses with shear-yielding vertical web members. Supplemental friction dampers were added to the lateral system. Testing of the links was done at the University of California at San Diego and testing of the beam-column joints was done at the University of Nevada at Reno. Columns tested were W36x439 with W27x102 beams with reduced flange sections.

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## Annual Report from the President

*Continued from page 1*

chaired by Reina Farah, whose committee was really a pleasure to work with, gave us three informative seminars on *Practical Steel Design and Construction*, *New Technologies*, and *Practical Concrete Design and Construction*. Additionally the Board presented five courses in AutoCAD training during the Fall and gave two special seminar presentations: one for the San Francisco Fire Department on *Fire and Explosion: Structural Integrity of High Rise Buildings*; and another for SEAONC on *The Synopsis of the 9/11/01 World Trade Center Disaster and Recovery*.

We had a strong showing in our committee activities this year, which was great news for me. The Younger Members Forum has had an increase of activity and has had strong attendance this year under the chairmanship of Jason Towle. The Public Affairs and Membership committee, chaired by Andrew Scott, has been involved in the Rebuilding Together Project, the Lego Project and the LEAP Project and has worked on ideas to retain, attract and expand membership. The Public Relations committee, chaired by David Bonneville, has had a quite year, mostly supporting EAA and the Student Impact / Three Brick Bridge project and helping to kick off the Lego Project in Northern California.

The Disaster Services Committee, chaired by Mike Fretz, has been busy attracting members for three Northern California Urban Search and Rescue Teams all of which responded to the 9/11/01 disaster, as well as upgrading the DES phone tree. Next year DES will conduct another OES Seminar for post-disaster response to earthquakes. The Existing Buildings Committee, chaired by Dave McCormick, had the *Guidelines for Seismic Evaluation and Rehabilitation of Tilt-up Buildings and Other Rigid Wall/Flexible Diaphragm Structures* published by SEAONC and ICBO in Fall 2001. SEAONC purchased and distributed copies of this document for all Members and Member SE's. The resurrected Computer Applications Committee, Chaired by Satinder Singh, held a computer application workshop in January and will continue to become more active next year.

The Seismology and Structural Standards Committee is always the committee with

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*Continued on page 12*

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## May 14<sup>th</sup> South Bay Dinner Meeting Wrap-Up

# Channing House Base Isolated Retrofit

Don Peterson and Larry Ho, Rinne & Peterson

by Jamison Curry, Program Committee Chair

Our thanks to Don Peterson and Larry Ho of Rinne & Peterson for their presentation on Channing House, a seismic upgrade using base isolation.

The building is a retired persons' home, in which the residents own their apartments. Mr. Peterson, Mr. Ho, and the residents must all feel elated that the project is nearing completion, considering that the design began in 1992.

The impetus for the retrofit was the 1989 Loma Prieta Earthquake. Residents, who have played an active role in the design and construction, wished to have a base isolated structure. The project required a long period for design and construction for several reasons. Residents had a limited amount of

money. The residents made the requirement that the building remain occupied while construction occurred. Finally, the building has a skilled nursing facility attached to it, which requires that OSHPD review the design.

The 10-story, 200,000 square foot, non-ductile reinforced concrete frame was originally designed for 0.046 G. The project required 114 isolators and 81 sliders for its new isolated foundation. The isolation plane varied from basement to 2<sup>nd</sup> level. Isolators were 13-7/8" high and 39-1/2" in diameter and were tested in pairs during production to achieve a 20" displacement. The design displacement was 17" at the MCE level. Teflon sliders were installed on 42"x42" plate bearings. Mr. Ho noted that at the entry canopy, the plates were installed above the teflon

bearings, which mitigated the amount of dust that settles on the plate, thereby allowing for more reliable behavior of the slider. Isolator installation was completed in November of 1999. The period of the isolated structure is 2.6 seconds. Net damping was 30%.

Because of the aspect ratio of the building and to prevent large tensions in the isolators, the building corners were held down. This hold-down system consisted of W33x201 outriggers attached to the building walls and to prestress cables attached to 30" diameter by 55' deep drilled piers. Even with this device, some of the isolators are in tension at the MCE level. See the article in the May 2002 SEAONC newsletter for more information about this project.

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## SEAOC Business Operations and Practices Committee to Prepare Resource Document

by Reinhard Ludke, S.E.

When Bob Hendershot was President of SEAOC, the Board developed a Long-Range Plan. The plan includes Objective #3: Develop methods to improve business management, business practices and strategies.

A SEAOC Business Operations and Practices Committee was created with two representatives from each SEAOC Section. The goal of the committee is to prepare a SEAOC resource document that provides guidance and references for owners, managers, and engineers for successful business practice and operations.

During our last meeting in Los Angeles we established the following list of subjects that will be included in the resource document.

### Structural Engineering Business Operations and Practice

#### Business Practices

- Business Plan Development
- Business Operations
- Project Management
- Fiscal Management
- Business Technology

- Liability Mitigation
- Engineering Services - Delivery Systems
- Ownership Transition

#### Business Development

- Marketing
- Project Cost Assessment
- Proposal Writing
- Scope of Work
- Negotiations
- Contracts and Agreements

#### Human Resources

- Recruiting and Hiring
- Staff Development & Retention
- Personnel Evaluation
- Compensation & Benefits

Lisa Blanton and Reinhard Ludke, S.E., are the SEAONC members of this committee. We welcome any contributions that SEAONC members have for the committees project. Our next meeting is on June 14, in Oakland. Let Lisa or Reinhard know if you have suggestions. The entire committee list is: Todd Thorp, SEAONC; John Anderson, SEAONC; Reinhard Ludke, SEAONC; Elizabeth Jones, SEAONC; Joe Labrie,

SEAONC; David Breiholz, SEAONC; Lisa Blanton, SEAONC; Bob Hendershot, SEAONC; Lee Adler, SEAONC.

"We Need to Talk Business," organized by this committee with nationally recognized business practice speakers, will be one of sessions at the 2002 SEAOC Convention in Santa Barbara.

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# Winning Bridges Selected in SEAONC-Sponsored Student Impact Project

By Wes Starratt, PR Communications

Model bridges designed by teams from three San Francisco high schools were the award winners in the Student Impact Project, a program designed to stimulate the interest of students in engineering as a creative art form. The project brings structural engineers from local engineering firms into high-school classes for hands-on demonstrations of the scientific, mathematical, and artistic fundamentals of engineering. After several lessons in fundamentals, students are divided into teams, each under the guidance of an engineer, for the design of model bridges from basic classroom materials. Thirty-two teams comprising more than 200 students from high schools throughout the Bay Area participated in the program, which is sponsored by the Engineers Alliance for the Arts and the Structural Engineers Association of Northern California.



The Winning Bridge, "Perseverance" from San Francisco's Thurgood Marshall Academic High School. Student leader, Stevon Cook, explains to the judges and the audience the design problems that led to the bridge's name.

Tiber River in Rome, with the use of an arch reminiscent of ancient Rome.

The third place award went to the bridge, "Arrow to the Sun," designed by students in a class taught by Robert Ramsey at the High School of the Arts and guided by structural engineer Don Cushing of Interactive Resources, Inc. The team comprises students Johnson Houang, Macauley Hutchinson, and Francisco Contreras. The bridge is a simple truss with vertical braided (strings) cables suspending the deck from four large diagonal struts that meet in a point above the center of the bridge and pass under the deck as they continue toward the ends of the bridge ... a configuration that forms a very stable and efficient design. The diagonal struts form the "Arrow" of the bridge, and the braided strings repeat the arrow motif, thus giving the bridge its name.

This year's Student Impact Project produced 29 additional innovative model bridges built by other teams from high schools throughout the Bay Area.



In second place, the bridge, "Ponte de Rivero" from San Francisco's George Washington High School, with teacher Sherie Yazman (left), structural engineer David Nicholson (right), and students Camilo Alvarez and Lisa Dea.

The winning bridge, called the "Perseverance," was designed by a student team from the sculpting class taught by Mary Noxin at Thurgood Marshall Academic High School and guided by structural engineer Ephraim Hirsch. The team comprises students Stevon Cook, Gerry Fowler, Vanessa Marshall, Maria Uriarte, and Emily Wong. After several failures and efforts at strengthening, the final design was adopted: an elegant, shallow arch, connected to the horizontal deck above by helical trusses. As student team leader Stevon Cook explained: "In real life, things break, and you have to persevere to make it turn out right", hence the bridge's name, "Perseverance."

Coming in second was the bridge, "Ponte de Rivero," designed by students from a class taught by Sherie Yazman at George Washington High School and guided by structural engineer David Nicholson of H. J. Brunnier Associates. The team comprises students Angel Ayatch, Allana Smilovitsky, Lisa Dea, Irene Marujo, Camilo Alvarez, and Jimmy Jian. The bridge is a suspended arch with a horizontal deck suspended below a pair of semicircular arches with (strings) cables in a radial pattern. The team envisions this bridge over the



Third place winner, the bridge, "Arrow to the Sun" from San Francisco's High School of the Arts, with structural engineers Don Cushing and Maia Discoe (second row), school principal Don Harris (bottom, left), students Seth Musikant and Macauley Hutchinson, teacher Robert Ramsey, and student Simone Goldstine (right).

*Ram International*  
*Repeat Full Page Ad*

# Committees on Assignment

## June 20, 2002 Business Forum Luncheon

by Lisa Blanton, Business Forum Chair

**Date:** June 20, 2002

**Time:** Board Meeting: 11:30 am-12:00

**Lunch/Program:** 12 pm-1:30 pm

**Place:** City Club, 155 Sansome Street, Wine Cellar Room, 9th Floor, San Francisco

**Topic:** Appointment of new Business Forum officers for 2002-2003, and setting of agenda for the coming year. The goal of the Business Forum is to share ideas for creating and maintaining a successful business. If

you have thoughts about what would make good topics for future meetings, now is the time to be heard. We value your input and ideas--come and help plan next year to make it a success.

Lunch is on us, for the first 10 people who sign up for this event!

Remember, there will be no Business Forum meetings in July or August.

**Cost:**

FREE to the first 10 people who register!

\$20.00 Business Forum Member

\$35.00 Non-Business Forum Member

**Lunch Selection:** Chicken Piccata, Char Grilled Filet of Beef or Penne Pasta

**RSVP:** Make reservations by calling the SEAONC office at 415/974-5147 by Tuesday, June 18th at noon and don't forget to make a meal selection for this event.

Join the Business Forum and save \$15.00 a month on the luncheon! Yearly dues is \$150 for firms of 6+ employees and only \$75 for 5 employees or less. Call the SEAONC office directly at 415/974-5147 to join. This is an opportunity to join a committee who's only requirement is that you eat a great lunch each month with us and receive some good information about running your business.

## Legislation and Regulation News

by Reinhard Ludke, S.E., Legislative Committee Chair

### BPELS Proposes New Regulations

At their regular meeting on April 25<sup>th</sup> and 26<sup>th</sup>, the Board for Professional Engineers and Land Surveyors approved several new regulations, which will now begin the approval process. The long process of adopting a "Code of Professional Conduct" is drawing to a close. A public hearing on the code will be held June 14, 2002. Licensees who would like to comment on the code, either in writing or in person, may comment anytime up to the hearing on the 14<sup>th</sup>.

Also approved was a regulation to raise exam fees and renewal fees for licensees. The renewal fee stays at \$160 but will now be renewed every two years instead of every four years. The exam fee doubles from \$175 to \$350. The rationale provided is that the fee increases are necessary to prevent the insolvency of the Board.

Finally, the Board approved definitions of negligence and incompetence and agreed to modifications to the definition of "responsible charge" to clarify the role of an engineer or land surveyor who takes over work initiated by another licensee.

### Certificate of Merit Law – Assembly Bill 2713

This bill makes two significant modifications to the existing Certificate of Merit Law, which requires an attorney to file a certificate of merit in order to maintain a

professional negligence action against an architect, engineer, or land surveyor. AB 2713 clarifies that the requirement to file a certificate of merit applies in cases where the plaintiff or cross-complainant is not represented by an attorney. A trial court in San Diego County recently ruled that a plaintiff without legal representation was not required to file a certificate of merit, even after they retained an attorney. We are concerned that if other courts make similar rulings the Certificate of Merit could be rendered virtually worthless.

Second, AB 2713 will expand and clarify the scope of review permissible to the trial judge in the event a motion is made to determine the adequacy of the consultation in support of the certificate of merit.

The Certificate of Merit has been a valuable protection against unwarranted litigation. AB 2713 makes this protection clearer and more flexible without creating an insurmountable barrier to defendants.

#### SEAONC Multimedia Projector for Rent

SEAONC's multimedia projector is available for rental! Voting members can rent the projector for only \$100 a day (plus a \$1000 security deposit). Contact the SEAONC office at 415/974-5147 for more details.

## Next ATC-20 Training Announcement

by Michael Fretz, DES Committee Chair

The DES Committee is pleased to announce its plans to hold the next ATC-20 training at Santa Clara University on Saturday, October 5, 2002. It will be the first ATC-20 training in that area in about eight years.

If you are interested in learning about how buildings are tagged (green, yellow, or red) following an earthquake or would like to brush-up on what you've learned in the past, this should be a great opportunity. The Santa Clara campus has very nice facilities and a good variety of buildings that we plan to mock-up as part of the seminar.

The ATC-20 training seminar focuses on the post-earthquake safety evaluation of buildings. We have tentatively scheduled a good list of speakers and presenters. Look for a seminar announcement and sign-up form in the July newsletter.

If you are interested in helping the committee organize this event, it's never too late to get involved! Feel free to contact me or simply show up at our next meeting. We will meet on June 4 at 5:30 PM in the Stackpole Room of the San Francisco City Club just before the SEAONC Dinner Meeting. We hope to see you then.

# Bulletin Board

## Jay Dorst Joins CEL Consulting

Member Lee Mattis is pleased to announce that Jay Dorst has joined CEL Consulting as a Senior Engineer.

Jay has 17 years experience in a variety of areas of the testing and inspection business. His expertise includes metallurgy and associated testing, welding consultation, electronic instrumentation and data acquisition, failure investigations, building condition surveys, load testing of structures and components, cyclic testing of shear walls and panel systems and other specialty testing. He is a registered metallurgical engineer in California and will head the newly formed Metallurgical Department.

CEL Consulting, a division of Consolidated Engineering Laboratories headed by Principal Engineer Lee Mattis, was formed in 1998 to provide specialized testing and investigative services to the construction industry including structural component testing, construction product code approval consultation and testing, materials testing and investigations and forensic investigations.

Jay joins senior engineers K.C. Dewell and Gus Flores as a key member of the CEL Consulting team.

## Hohbach-Lewin Inc. Announces Promotion

Hohbach-Lewin Inc. is pleased to announce the promotion of SEAONC Member Eddie Hui, S.E. to Associate.

Eddie Hui, S.E., has nine years of structural engineering experience. He received a B.S. in Mechanical Engineering from U.C. Berkeley. He began his career at Kee Wong Engineering prior to joining Hohbach-Lewin 3 years ago. His project experience includes the Stanford University Boat House on Redwood City's Harbor, the new Science Building at Los Gatos High School and the Devry Institute of Technology in Fremont.

## **BALLOTS ARE DUE!**

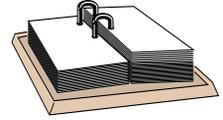
Voting Members, don't forget to vote! SEAONC is holding elections for three open director seats on the Board of Directors, as well as for Vice President and President.

The candidate for President is Steven B. Tipping, SE; the candidate for Vice President is David Bonneville, SE. The six candidates for director are: Carrie Bischoff, SE; Arthur Dell, PE; Gary Mochizuki, SE; Mark T. Okamura, PE; Rafael Sabelli, SE; and Constantine Shuhaibar, PhD, PE.

**Ballots are due to the SEAONC office no later than noon, Tuesday, June 4<sup>th</sup>.**

## CALENDAR OF EVENTS

June 4th San Francisco Dinner Meeting - The City Club, San Francisco, RSVP: 415/974-5147 by noon, May 31st.



June 14th YMF Social: A's vs. Giants. RSVP to Laura Yamaguchi, Lauray@tippingmar.com

June 20- Business Forum Meeting, RSVP: 415/974-5147 by noon, June 18th.

## FEMA 350 Commentary Document Now Available on SEAOC Web Site

The SEAOC Seismology Committee has posted the FEMA 350 Commentary Document on the SEAOC web site. To download this document, go to <http://www.seaoc.org/> under "What's New."

## Committee Chairs

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jltowle@sg.com

**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](http://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](mailto:jim@forell.com).

**G.A. Graebe & Assoc., Inc.** in Salinas, CA, is seeking an Associate Civil Engineer with at least 10 years experience in Structural Design of Wood, Concrete, Masonry and Steel Structures. Familiar with 1997 UBC and skilled in Computer Programming, Engineering Software and Autocad. CA PE is a plus. Salary is negotiable, depending on experience. Call 831/422-6409 and/or e-mail/fax résumé to: [structdraw@redshift.com](mailto:structdraw@redshift.com), Fax#831/422-3275.

**Interactive Resources Architects & Engineers** ([www.intres.com](http://www.intres.com)) offers competitive compensation & benefits, ongoing career development, interesting projects, and a unique firm culture in a great historic coastal town in the East Bay. We also offer ownership potential. Registered PE minimum, SE preferred. CA/West Coast experience necessary. See our website for more information. Send résumé to 117 Park Place, Point Richmond, CA 94801. Fax: 510/232-5325.

Structural designer position available with a Modesto based structural consulting office. 3 years experience in designing concrete, CMU, steel, and wood structures. Must have good communication skills and be conversant in AutoCad, SAP 2000, ETABS. Send résumé to **Lawder Engineering**, PO Box 3206, Modesto, CA, or fax to 209/521-1166.

**RPSE** is a 30+ employee Palo Alto firm currently seeking talented EIT's, PE's, & SE's. If you are a dynamic individual with great communication skills and enjoy diverse and challenging projects, we want to talk to you! RPSE offers growth opportunity, competitive salary, great benefits, and a superb working environment. Please fax

cover letter & résumé to HR, Attn: Sharon at 650/ 428-2861 or email to [sharonberman@rpse.com](mailto:sharonberman@rpse.com). For more details please visit [www.rpse.com](http://www.rpse.com).

Career opportunities in the structural design of prestigious projects await you at **Rutherford & Chekene**, a recognized leader in structural design and seismic engineering. We have a large current workload and a significant backlog. Projects include museums, libraries, research laboratories, and hospitals. Opportunities are available in our San Francisco and Oakland offices for engineers with 3+ years of experience who have enthusiasm for participating in the design of some of the most exciting engineering projects in the Bay Area. CE/SE license and prior building design/detailing experience are a plus. If you wish to learn more, please contact Peter Revelli by phone at 510/740-3200 or e-mail at [prevelli@ruthchek.com](mailto:prevelli@ruthchek.com). Also visit our web site at [www.ruthchek.com](http://www.ruthchek.com).

**Structural Design Group of Santa Rosa**, is looking for a highly motivated, technically skilled engineer looking for a leadership position in an exciting young firm. Associate position available for a bright, creative individual with 2 years minimum design experience in educational facilities, low rise commercial, or residential structures. We offer unlimited opportunities for career advancement and an excellent salary/bonus/benefit package. Please fax résumé to 707/284-3646 or e-mail: [RichB@s-d-g.net](mailto:RichB@s-d-g.net)

**Tipping Mar + associates** is an award-winning structural engineering firm. We have an enthusiastic staff of twenty-five 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 résumé 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](mailto:steve@tippingmar.com)

**Watry Design, Inc.** which is located in the San Francisco Bay Area, is in search of highly motivated engineers to join our rapidly growing team. Watry is a full service Architectural/Engineering Firm specializing in the design of large concrete structures, including high-rise hotels and apartments as well as award-winning parking structures.

This position offers the right individual an opportunity to play an integral role in the design of multi-million dollar projects with a firm that fosters a cohesive family like environment. The applicant must possess a B.S. in Structural Engineering (or equivalent) with a P.E. or S.E license being highly desirable. A background in the design of concrete and post-tensioned structures, strong computer skills, and excellent communication skills are beneficial. If you would like further information regarding Watry Design, Inc., please visit our web site at [www.watrydesign.com](http://www.watrydesign.com). Submit all résumés to: Watry Design Inc., 815 Hamilton Street, Redwood City, CA 94063 attn: Lisa Blanton or you can send electronically to [lblanton@watrydesign.com](mailto:lblanton@watrydesign.com)

**Ansari Structural Engineers, Inc.**, a growing consulting firm in SF, seeks a PM with min. 8 yrs of experience in bldg design & S.E. license, as well as a motivated project engr w/ 1 to 3 yrs of experience. Excellent analytical and communication skills required for both positions. Knowledge of CADD is a +. We offer excellent growth opportunities, flexible schedule, and competitive benefits in a friendly atmosphere. Our projects are challenging & exciting; they include retrofit of historic structures & design of medical and institutional facilities. If interested e-mail your résumé to [mehri@ansariinc.com](mailto:mehri@ansariinc.com) or fax to Mehri Ansari @ 415/348-8947

**CRJ Associates**, a Menlo Park A&E firm, is looking for structural design engineers, from entry level on up. We are also looking for CAD drafters with a minimum of 2 years of experience preparing structural drawings using Autocad 14 and 2000. Our firm specializes in design of new commercial buildings, as well as evaluation and retrofitting of existing structures. Flexible office hours, excellent salary and benefits. For more information, please visit our web-site at [www.crjarch.com](http://www.crjarch.com) <<http://www.crjarch.com>>. Please e-mail résumés to Julie at [hr@crjarch.com](mailto:hr@crjarch.com) <<mailto:hr@crjarch.com>>, or fax to 650/324-0927.

**PB&A, Inc.** - leading engineering firm in the design of Earth Retention Systems and Geo Structures is looking for a staff engineer with a Masters Degree in Geotechnical Engineering with strong emphasis on Structural engineering or vice-versa. Highest de-

gree of expertise in Geo-Structure computation necessary, including finite element analysis required. Additional computer proficiency including Microsoft Office, MathCad and AutoCad a must. This position requires excellent communication skills along with a P.E. registration or equivalent and a background leading to the ability to obtain a G.E. registration. PB&A offers a competitive salary. Please send a letter of interest along with your résumé to PB&A, Inc. 1840 Embarcadero, Oakland CA 94606 or e-mail to <mailto:pba@usa.com> pba@usa.com. Visit our website at www.pbainc.com.

Structural Engineer. **Winzler & Kelly Consulting Engineers** is a dynamic, growing 51 year old international engineering firm seeking structural engineers for our Santa Rosa office. We are dedicated to our clients and the communities that we serve. Our Santa Rosa office is located in the heart of Sonoma County's wine county, approximately 60 miles north of San Francisco. Known for its wide variety of outdoor activities, the rugged pacific coast, and a multitude of wineries, Sonoma County is one of the most desirable areas to live in both in California and the United States. Santa Rosa is the hub of Sonoma County and enjoys fine living with-

out the pressures of a large metropolitan area. The ideal candidate will possess a California registration or the ability to obtain registration at the earliest opportunity. Good written and oral skills a must. Send résumé to [bonnieburrell@w-and-k.com](mailto:bonnieburrell@w-and-k.com) or fax résumé to 707/527-8679. (EOE)

Job Forum insertion fee:  
\$150 up to 450 characters/spaces  
\$15 for each 45 characters/spaces thereafter  
All job forum ads will be posted on the SEAONC web site.

### Posting for Membership

#### Member SE

Robert Herm, Chief Engineer  
*Strocal, Inc.*

#### Member

Emma Aquino, Engineer  
*URS*

Russel Berkowitz, P.E.

*Forell/Elsesser Engineers, Inc.*

Mahmoud Hachem, Ph.D. Candidate  
*Wiss, Janney, Elstner Associates*

Ryan Hornback  
*Nishkian Menninger*

Scott Kahl, Project Engineer  
*DASSE Design*

David Kirschenbaum, Design Engineer  
*DASSE Design*

Emory Montague, Professional Engr.  
*Biggs Cardosa Associates, Inc.*

Troy Morgan, Engineer  
*Forell/Elsesser Engineers, Inc.*

Francisco Parisi, Project Engineer  
*Rutherford & Chekene*

#### Associate

Nancy Aiello, Design Engineer  
*SOHA*

Petros Keshishian, Project Engineer  
*ABS Consulting*

#### Student

Christian Zambrana-Rojas, Grad. Stud.  
*UC Berkeley*

### New Members

#### Member SE

Carrie Bischoff, Project Engineer  
*Degenkolb Engineers*

Bradley Hoogerwerf, Principal  
*Hoogerwerf Engineering*

Ken Napior, Senior Structural Engineer  
*Walker Parking Consultants*

Roger Parra, Project Engineer  
*Degenkolb Engineers*

Rafael Sabelli, Associate  
*DASSE Design, Inc.*

Gregory Wallace, Principal  
*Gregory Paul Wallace, SE*

John Westphal, Associate  
*DASSE Design, Inc.*

#### Member

Hal Amick, VP, Technology Dvlpmnt.  
*Colin Gordon & Associates*

Freydoon Arbabi, Professional Engineer  
*Rinne & Peterson Structural Eng.*

Mark Aschheim, Assistant Professor  
*2118 Newmark Lab*

Ignacio Barandiaran, Associate  
*Ove Arup & Partners*

Brad Erickson, Staff Designer  
*Watry Design Inc.*

Marc Gerin, Senior Structural Engineer  
*Ben C. Gerwick, Inc*

Stephanie King, Associate  
*Hart-Weidlinger*

Carl Kuo, R&D Engineer  
*Simpson Strong Tie*

William Liang, Design Engineer  
*SOHA Engineers*

Lorraine Lin, Project Manager  
*Hinman Consulting Engineers*

Susan Lyons, Project Manager  
*Watry Design Inc.*

Maya Sneller, Professional Engineer  
*Rinne & Peterson Structural Eng.*

Joel Visaya, Engineer

*Biggs Cardosa Associates Inc.*

Sandy Yee, Structural Designer

*Hratch Kouyoumdjian & Associates*

#### Associate

Martin Chandrawinata, Civil Engineer  
*3 PGH Wong Engineering*

Eric Ho, Structural Engineer

*Skidmore, Owings & Merrill, LLP*

Seungtae Andrew Jung, Asst. Proj. Eng.  
*Peoples Associates Structural Eng.*

Jiin Lee, Staff Engineer  
*DASSE Design Inc*

Juan Mendoza, Engineer  
*Ben. C Gerwick*

Sarah Moses, Structural Engineer  
*Skidmore, Ownings & Merrill*

Shakhzod Takhirov, Specialist  
*PEER, UC Berkeley*

#### Student

Jack Baker, Graduate Student  
*Stanford University*

Chung-Chuan Chang, Graduate Student  
*Stanford University*

Meghan Elliot, Graduate Student  
*UC Berkeley*

Renee Elsdon, Graduate Student  
*UC Berkeley*

Ian Glaser, Graduate Student  
*Stanford University*

Matthew Melrose, Graduate Student  
*Stanford University*

## Annual Report from the President

*Continued from page 4*

the largest technical work load and has been well guided by Chairs David Bonowitz and Rafael Sabelli. A new and continuing feature of this committee is regular technical newsletter articles. The Website Committee, chaired by Darrick Hom, completed a re-design of our website and launched the site in Fall 2001. A second major portion of the website renovation will start soon and will continue well into next year.

The SEAONC Board appreciates the important yet behind the scenes work by the Bylaws (Chair - Ed Goudie), Construction Quality Assurance (Chair - Derek Westphal), Legislative (Chair - Reinhard Ludke) and Professional Practices (Chair - Bill Andrews) committees. The Business Forum, chaired by Lisa Blanton, hosted fine speakers and presented quality topics for discussion this year at their monthly lunchtime forums.

Lastly, the Scholarship Committee, chaired by Steve Tipping, will be able to award three senior scholarships. This year the economy saw contributions drop significantly for this wonderful SEAONC program, and I ask those capable to please consider contributions to the scholarship fund. The Awards Committee, chaired by Mehri Ansari, was completely overhauled this year and will present four SEAONC Engineering Excellence Awards at the Annual Awards Meeting.

While I believe that my work as SEAONC President is almost complete, I would like to leave the membership with some parting thoughts. I started this year with many goals and I was able to achieve about half of them due to time and volunteer constraints. My Administration's achievements are not because of my efforts or the Board's efforts, but a direct result of the collective efforts of all members and committee members. Strong membership contributions, committee participation, and attendance at dinner meetings and seminars are paramount to the continued successes of SEAONC and SEAOC.

We still have a great need for members on all committees both for SEAONC and for SEAOC. There are many tasks that go unaccomplished and some committees that need help. This is a great chance for younger members to step up and contribute, for long-time existing members to continue, for all

members to learn vast amounts from experienced members and for new members to meet established members who have made great contributions to the profession. It does not take much time to learn the important issues of each committee. I have gained considerable amounts from my committee experiences, and have found the rewards much greater than my contributions. Engineers who get involved will find their horizons expanded and will gain vastly in their own careers.

Secondly, we need to attract all structural engineers, both new and existing, to join forces with SEAONC, and to become or continue to be members to show support for our profession. SEAONC strives to give members value for their membership, to improve the SE image in society, and to improve the business and working atmosphere for each one of us. Together we are stronger and will move ahead; alone we are not as strong.

In closing, I want to thank the Board for all of the effort that I have asked of each member. I believe that SEAONC is in great hands with incoming President Steve Tipping, and incoming Vice President David Bonneville. I would like to thank Past President Jim Malley for his support and guidance and congratulate him for stepping into line as the next Northern California SEAOC President in 2003-04. Thank you to outgoing Board Members: Simin Nasseh as Treasurer for her efforts and persistence with a changing office staff and keeping the Board within the budget; to Alan Kren as Secretary and oversight with the Program Committee; to David Bonneville as Public Relations Chair; and to the hard and diligent work by Board Members Alan Robinson, Mehri Ansari and Doug Hohbach. I would also like to thank the SEAONC Office, Executive Secretary Rochelle Venuto, Kristina Peltier, Peter Jacques, and Kam Choy for their tireless effort and valiant support.

I believe next year's slate of candidates will provide for strong continued leadership and I believe that SEAONC is in good hands and on stable financial ground for the future. I look forward to working with Steve Tipping and the 2002-2003 Board next year in an effort to continue to expand our reach and our success as an organization.

*by Jon Kiland, 2001-2002 President*

Repeat 1/6 page Ad for CalQL8

### **Structural Engineering Review Manual and Workshop [www.structuralsolutions.com](http://www.structuralsolutions.com)**

The most comprehensive SE review manual, Edited by Ben Yousefi, SE and James Son, SE, based on the 1997 UBC is now available. The manual (approx. 600 pages) contains complete problem statements and solutions (except bridge design) for the California SE exam years 1990-1995 (six years). In addition, a new Supplement is also being offered that contains additional problems dealing with practical engineering issues.

A comprehensive workshop is also being offered this year at a convenient Hayward location. The workshop consists of 12 sessions on selected Saturdays starting in June and ending in October. The workshop is instructed by some of the most prominent and knowledgeable professionals in the field of structural engineering.

For detailed information please check out our web site above or contact us at 800-566-2906 or at [structuralreview@aol.com](mailto:structuralreview@aol.com).

*Repeat Ad for  
Computers and Structures*

upcoming events

JUNE

- 4 SEAONC Annual Awards  
Dinner Meeting, The City Club
- 14 YMF Social: A's vs. Giants
- 20 Business Forum Luncheon

# Registration

## Structural Engineers Association of Northern California JUNE 4th SEAONC DINNER PROGRAM, CITY CLUB, SAN FRANCISCO

5:45 PM  
General Assembly

6:30 PM  
Dinner

7:30 PM  
Program

*SEAONC Annual  
Awards Meeting*

Location:

**The City Club**  
155 Sansome Street,  
10th Floor  
San Francisco

**BART:**  
Montgomery Street  
Exit  
San Francisco

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

NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_

**RSVP by fax to: 415/764-4915** or phone: 415/974-5147  
Make check payable to **SEAONC** and bring with you to the door.

**Deadline for pre-registration: 12 noon, Friday, May 31, 2002**

Dinner and program reservations are limited. Register early! No cancellations after 12 noon, Friday, May 31, 2002. *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.*

<b>COST:</b>	<b>PRE-REGISTERED</b>	<b>LATE REGISTRATION</b>
SEAONC Member	<input type="checkbox"/> \$32	<input type="checkbox"/> \$37
Junior Mbr (34 and under)	<input type="checkbox"/> \$28	<input type="checkbox"/> \$33
Non-Member	<input type="checkbox"/> \$35	<input type="checkbox"/> \$40
Student	<input type="checkbox"/> \$15	<input type="checkbox"/> \$15