

A Message from the President

I am very honored to be the incoming President of SEAONC for 2001-2002. I have always had a great amount of admiration for the past presidents of SEAONC and I trust that I can lead the association to another fruitful year. I look forward to working with Past President Jim Malley who had a very good year as President and with incoming Vice President Steve Tipping who will be a strong leader following me. I also look forward to working with new Treasurer Simin Nasseh, Public Relations Committee Chair David Bonneville, and Secretary Alan Kren who return for a second year on the Board. I also look forward to working with new Board members: Mehri Ansari; Doug Hohbach; and Alan Robinson who were voted in from an excellent slate of six candidates.

On behalf of the membership, I would like to thank Jim Malley for an excellent year as President. This past year SEAONC created a major public relations push in the Public Relations Committee-publicizing the accomplishments of the SAC Steel Research Program and the development and publication of the FEMA 350-354 documents. The news release was carried by the San Francisco Chronicle and the Associated Press nationally and by several local television stations on April 18, 2001. SEAONC awarded three scholarships to senior level civil engineering students in the 2001-2002 school year at local universities for the first time in its' history. The web site is in the process of being developed professionally, and SEAONC continues to be a strong player in the Rebuilding Together charity. SEAONC also donated money to Engineering Alliance for the Arts, which has sponsored a model bridge competition at several local high schools in San Francisco aimed at introducing structural engineering to high school students. Additionally, SEAONC will finish the 2000-2001 year on strong financial footing.

SEAONC Election 2001

SEAONC ELECTS 2001-2002 OFFICERS, BOARD OF DIRECTORS

SEAONC Member, Jon Kiland, SE, Principal at DASSE Design, Inc., San Francisco, has been elected President of SEAONC for the 2001-2002 year. Kiland will be the Association's 72nd President

Steve Tipping, SE, Principal at Tipping, Mar & Associates, Berkeley, has been elected Vice President.

The Association also elected three Directors to serve through 2003: Mehri Ansari, SE, Principal at Ansari Structural Engineers, Inc., San Francisco; Doug Hohbach, SE, Principal at Hohbach-Lewin, Inc., Palo Alto; and Alan Robinson, Principal at Tuan & Robinson Structural Engineers, San Francisco. They join the remainder of SEAONC's 2001-02 Board of Directors: Past President, Jim Malley, Degenkolb Engineers; and continuing directors, David Bonneville, Degenkolb Engineers, Alan Kren, Rutherford & Chekene and Simin Naaseh, Forell/Elsesser Engineers.

Retiring members of the Board are: Past President Joe Sutton, DASSE Design, Inc., and directors Joe Maffei, Rutherford & Chekene; Reinhard Ludke, C+D Consulting Civil & Structural Engineers.

I would like to thank the diligent work of this past years' Board, which organized many of these accomplishments and to the hard work efforts by the committee chairs from each committee who also made significant contributions. I would like to express appreciation for outgoing Board members: Treasurer Reinhard Ludke who kept a tight and accurate budget; to Secretary Joe Maffei who diligently reviewed many SEAONC procedures, guidelines, documents and meeting minutes for accuracy, relevance and usefulness; and to Steve Tipping who Chaired a lively Public Relations Committee through a successful year. Finally, I want to thank Past President Joe Sutton who is a wealth of new ideas and has been a real contributor to the Association for

the past five years as a Board member and then in his rotation as President.

At the June 5, 2001 dinner meeting, SEAONC was treated to an evening where we celebrated our accomplishments this past year. Congratulations to T.Y. Lin for receiving the HJ Brunier Lifetime Achievement Award; and to Carrie Bischoff for receiving the Edwin Zacker Award for Outstanding Service to the Structural Engineering Profession. Harold Davis and John Paquette were deservingly made Fellow members, and Eric Elsesser and Paul Fratessa were elevated to Honorary Members for their many contributions to the profession.

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*Jon Kiland
President 2001-2002*

**ANNOUNCEMENT:
No General Meeting in July!**

The next monthly meeting will be held on August 7, 2001 at the City Club. Details in the August NEWS!

A Message from the President

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SEAONC Design Excellence awards were given to: SOM for the San Francisco International Airport - International Terminal; to Rutherford and Chekene for the rehabilitation of the UC Berkeley - Hearst Mining Building; and to Tipping-Mar Associates for the rehabilitation of the I Magnin Building in Oakland.

Some of the areas that I expect to concentrate on over the next year include:

- Studying how the Board can inspire a greater participation from membership in our committees to revitalize the committee memberships. We are particularly interested in our younger members as well as older members participation on committees. Please join a committee. I promise you will gain more from it than you put into it.
- Being responsive to our members and providing useful member services, which will help retain overall membership and/or increase it back to previous levels. Some of these services are interesting dinner meetings, quality seminars and publications as well as the newsletter.
- An interesting assortment of monthly dinner meetings as well as stronger alliances and ties with SF-AIA, BOMA or Contractor Associations and other organizations with whom we can build useful relationships.
- South Bay dinner meetings to encourage participation from our South Bay members. If successful, continuing education seminars will also be held in the South Bay and the program will be expanded to the East Bay in the near future.

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- Continue to produce quality technical continuing education seminars and quality engineering guideline documents on both the state and local level.
- Continued efforts of the Public Relations Committee to publicize some of the positive efforts of Structural Engineers and to improve recognition of the structural engineering profession.
- Continued efforts to obtain contributions from industry to increase our scholarship fund balance and to fund and award Senior Scholarships in the 2002-2003 year and beyond.
- Complete the new production of the SEAONC Web Site and continually post pertinent and updated data on a regular basis for advertisement of seminars, dinner meetings, and committee meetings, as well as dissemination of past meeting minutes, past newsletters, and job forum postings.
- Continue to support the efforts of all of our committees whose work is the bread and butter of our organization and whose efforts have made SEAONC the great organization it is.

New ideas for the State and Local level are:

- Start development of a Structural Engineering Certification Program for SEAOC and NCSEA. This process will begin the self-policing of our profession similar to the Law Board or AMA.
- Start a SEAOC Business Operations and Professions Committee to develop guidelines and seminars on important issues for running a structural consulting engineering business.
- Merger of State and Local Code and Seismology committees into a "Seismic and Code Committee." Encourage the continued progress in development of new seismic design technologies and encourage our members to meet with and influence national standards, codes and guidelines.

All of SEAONC's and SEAOC's successes require the participation and volunteer efforts of our members. Many of our long standing and successful committees have had a lack of new members in the past several years and thus have had difficulty accomplishing their tasks or in finding renewed leadership. Some committees are on the verge of extinction such as Computer Applications, and Code Committee. Others committees have dangerously low membership.

All of SEAONC's committees are extremely valuable and desperately need the members to step up and contribute. We all owe part of our personal successes in this industry to the past gains of a strong professional association and we thus all owe a part of ourselves to keep the profession and our association strong for the duration of our careers and for the generations to come. Please donate four hours a month to one committee for nine months a year to help contribute.

-Jon Kiland 2001-2002 President

In Memoriam

By Sunil Gupta

DENNIS OH

Dennis Oh, a long time SEAONC member, passed away on May 1, 2001. Dennis was born in Singapore and came to the US on a scholarship at the age of 19. He graduated from the University of Southern California with a degree in Civil Engineering. After working for many notable engineering firms, Dennis formed OLMM in 1986 along with his lifetime colleagues. He retired from active practice in April 2000.

Dennis had a passion for structural engineering and was responsible for some of the most notable projects in the San Francisco Bay Area including the Transamerica Pyramid, the New San Francisco Main Library, seismic retrofit of the San Francisco City Hall, and the San Francisco International Airport expansion.

Committees on Assignment

Construction Quality Assurance

2000-2001 Year End Report
By Ross Esfandiari, Chair

During the past year we initiated an Aggregate Research Project: The committee assembled information for a possible newsletter or publication that will summarize the availability of bay area aggregates. In addition to supply, the committee is planning to include specific properties of the aggregates such as drying shrinkage and alkali reactivity. This document is almost complete and will be published in the coming year.

The committee initiated a review of Chapter 17 of the International Building Code and prepared suggested changes for the next code change cycle which has to be in the reviewing committee by November, 2001. Our liaison to the IBC chapter 17, code committee will follow up with our suggestions.

We initiated a review of FEMA 353, SAC Quality Assurance Guidelines. Wrote a brief article in the newsletter regarding the new NDT (M.T) requirements of this document. We included practical examples of these requirements and showed the benefits.

Briefly discussed samples of typical Site Safety Guidelines in relation to an engineer and an inspector.

Some of our charges for the coming year are as follows:

1. Complete aggregate research project for publication.
2. Provide a workshop for "How to perform structural observation." This will include limitations of various testing methods and ways to identify construction defects.
3. Summarize the material testing that may be needed for seismic strengthening of existing structures.
4. Survey larger by Bay Area building departments to see what their policies are with respect to site inspection and produce a document outlining each departments policy in regards to special inspector, City Inspector, and Engineer of Record's structured observation.

DIGITAL CAMERA FOR RENT

SEAONC has a SONY digital camera available for rental! Voting members can rent the camera for only \$25 a day (plus a \$1000 security deposit). Contact the SEAONC office at 415/974-5147 for details.

Younger Members Forum

2000-2001 Year End Report
By Wayne Low, Chair

Thank you to everyone who helped to support the Younger Members Forum during the 2000-2001 year. In these busy and fruitful times, your dedication to this proud committee is to be applauded and appreciated.

The YMF has continued our work to support the needs of the younger and new members of SEAONC. We began our year with a successful, new member orientation prior to September's general membership meeting. The new member orientation welcomed both new and existing members of SEAONC and gave members an opportunity to meet and contribute to the many committees of our society.

We continued our long history of hosting student nights for students from the University of California at Berkeley, Stanford University, Santa Clara University and San Jose State University at monthly general meetings during the year. The students enjoyed their explorations of actual "design offices" and the opportunity to meet the members of SEAONC. Thank you to the offices of Tipping, Mar and Associates and Simpson, Gumpertz and Heger for graciously hosting the students tours and Jason Towle, for organizing these successful student nights.

During the past year, members of the YMF continued to develop SEAONC's relationship with the Peninsula branch of Habitat for Humanity. Habitat for Humanity is a community group that works, through tax-deductible donations of money, materials and volunteer labor to provide affordable ownership housing for low-income families by building and renovating existing homes. We look forward to continuing to develop this relationship and would like to thank Jackie Bassett for leading this worthy effort.

The YMF ended the year by helping to judge the candidates for the SEAONC undergraduate scholarship. With the recent drops in structural engineering enrollment at Bay Area Universities, the YMF will continue its commitment to encourage students to become structural engineers.

These accomplishments could not have been completed without the help of the dedicated members of the YMF. I would also like to thank committee members Suzanne Brown, Carrie Bischoff, Kevin Moore and Taryn Williams for their much needed help.

Seismology

2000-2001 Year End Report
By David Bonowitz, Chair

As the committee year closes, Seismology remains busy and faces important changes. The ongoing work of our active subcommittees is described below. As always, the Committee invites SEAONC members to raise concerns about the state of seismic design and to submit technical questions for us to address. We also invite those members to stick around and help work out the answers.

This year the Committee produced an assessment of the "Redundancy/Reliability Factor" introduced in the 1997 UBC. The SEAOC Seismology (State) Committee is now reviewing our findings (see below). With input from other sections, the State committee may propose code changes.

In other news, the SEAOC Board has decided that redundancy is bad in at least one sense; the State Code and Seismology Committees, whose charges sometimes overlap, will be combined and reorganized.

Seismology and Code to Merge

The Board's decision to combine the two committees responds to SEAOC's evolving role in the national code development process. In recent years, Code and Seismology have divided the technical topics, with Code handling non-seismic loads as well as light-frame construction. This has led to a few conflicts and inconsistencies. As codes and standards are developed more by national organizations, it has become important for SEAOC to make its contribution with a single strong voice.

How the two long-standing committees will merge is still being worked out, but a combined committee should be in place by October 2001. Newly elected SEAONC Director Doug Hobbach is leading this effort as the current chair of State Seismology. At the state level, the committee structure will involve active liaisons to national bodies such as BSSC and ASCE. The two committees will also merge at the local level, with a subcommittee structure expected to match the State organization.

Rho Under Scrutiny

The Committee is just about done with its review of the UBC's Redundancy/Reliability Factor, known as *rho*. Thanks largely to the dogged efforts of member Gary Searer, the Committee has concluded that the current code provisions for redundancy are deeply flawed.

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Bulletin Board

Getting Ready for the 2001 California Structural Engineering Exam

By Alan Kren, SEAONC Director

A trip to the California Department of Consumer Affairs web site, www.dca.ca.gov/pels/e_exam.htm would be well worth the while for all those planning on taking the SE exam this October. Once there go to the section titled "Exam Reference Materials". From there you will find a link to "Structural Engineer: Information for Examinees". What you will find there can be summed up as this. As always, the exam will take place over two days, Friday and Saturday, and will be divided into four 4 hour sections. Starting this year, Friday's sections will test candidates on "breadth or general aspects of structural engineering" while Saturday's sections will test candidates on the "seismic design, analysis, and structural detailing required to practice in the state". Quotes from the DCA web site. Friday will begin with a four hour multiple choice section, and conclude with a four hour design questions. Both of Saturday's sections will be design questions. Note that both the general and seismic (Friday's and Saturday's) portions of the exam may include analysis, and design of structures. What's new is Friday's 4 hour multiple choice section, and splitting the general and seismic aspects of structural engineering between the two days. But rather depend on this short article, take a moment to visit the web site and get the information first hand. And study, study, study.

Structural Engineering Plan Review Services

The Division of the State Architect (DSA) is requesting submittal documents from licensed structural engineering firms to provide structural plan review/back review of drawings and specifications for public schools, community colleges, essential services buildings, and related projects. All work is to be performed in conformance with the California Building Code (Title 24) and regulations developed by DSA and in accordance with established

procedures as directed by DSA.

Interested firms should download the Request for Qualifications (RFQ) for contract #DSA-SS-2002 from the California State Contracts Register at <http://www.osmb.dgs.ca.gov/cscr/> or contact DSA to obtain a RFQ at 1130 K Street, Suite 101, Sacramento, CA 95814.

Contract will be for 2 years not to exceed \$250,000.

Application deadline: July 31, 2001
Location: (DSA offices) Oakland, Sacramento, Los Angeles, San Diego
Department: General Services
Contact: Charleen Tyson 916/445-0105

SEA Northwest Conference

Plan now to attend this year's SEA Northwest Conference. SEA Oregon and the Westin-Salishan Lodge and Golf Resort in Gleneden Beach, Oregon are proud to sponsor what is guaranteed to be both an educational opportunity and entertaining experience. We will have a great lineup of technical sessions and speakers highlighting developments in the international codes, state of the art engineering techniques and new design innovations. We will also have a presentation on the February 28th Nisqually Earthquake. We have several vendors lined up to display their new products and assist you with innovative solutions to your design opportunities.

The Northwest Conference will also be a great chance for you and your family to enjoy the beautiful Oregon coast and the limitless beach access. Salishan Resort is a first class location with enough amenities that you may want to just sit back and relax and enjoy the beach from this comfortable setting. Registration packets will be arriving soon. Mark your calendars, sign up soon and plan to join us on the coast for a great event.

Technical Session Highlights

Greg Schindler, KPFF Consulting – *NCSEA Developments*, Michael Valley, Skilling Ward Magnusson Barkshire – *The Nisqually Quake*, John Loscheider, Loscheider Engineering – *Building Code Controversies*, Dr. Markus Wernli, BERGER/ABAM Engineers – *Composites in Infrastructure*, Ralph Doensife, WSDOT – *Skykomish River Bridge Anchor Pin Replacement*, Edwin Huston, Smith & Huston Inc. – *SE Law & Registration Requirements*, Saif Hussain, SHA Engineering – *Performance Based Seismic Design*, Ivan Wong, URS Corp. – *Earth-*

quakes, Hazard Maps & Building Codes, Kris Spickler, Trus Joist – *Heavy Timber Construction methods*

Entertainment

An exclusive tour of the Oregon Coast Aquarium, Friday social and dinner followed by an informal bonfire, Golf and Tennis Tournaments, Saturday catered beach party/picnic

Lodging

The NW Conference planning committee has reserved a block of rooms and suites at The Westin-Salishan Resort. Room reservations should be made directly with the resort by calling 1-800-452-2300 or online at <http://www.salishan.com/>. Registration packets will have additional information on rooms and rates. Be sure to indicate that you are with the SEA NW Conference when making reservations to get the preferred rate.

For more information, contact Conference Chair, Kevin McCormick at 503-246-1250.

ASCE and FEMA Make "FEMA 356" and "FEMA 357" Available

The American Society of Civil Engineers (ASCE), under a cooperative agreement with the Federal Emergency Management Agency (FEMA), has completed a project to update and convert *FEMA 273 NEHRP Guidelines for the Seismic Rehabilitation of Buildings*, and *FEMA 274 NEHRP Commentary*, into a mandatory language pre-standard, *FEMA 356-Pre-Standard and Commentary for the Seismic Rehabilitation of Buildings*. *FEMA 356* is now available for use. The completion of the pre-standard is the first step in turning *FEMA 356* into an ASCE/American National Standards Institute (ANSI) approved national consensus standard.

Users need to be aware that the ASCE Standards Committee on Seismic Rehabilitation of Buildings have unanimously voted to accept this pre-standard as the basis of a voluntary consensus standard, which, upon completion, will be suitable for reference by building codes and inclusion in contracts. In early 2001, the Standards Committee will begin committee balloting on the document to be followed by an open public ballot period. The process that they will follow will be in accordance with the *ASCE Rules for Standards Committees*. A copy of these *Rules* may be found in the ASCE Official Register.

ENGINEER'S ALLIANCE FOR THE ARTS "THREE BRICK BRIDGE" PROJECT HERALDED A HUGE SUCCESS!

By Jill Weinstein, Executive Director, EAA



The Engineer's Alliance for the Arts has successfully completed its pilot year for the "Students in Arts – Three Brick Bridge Competition". During the course of the six week, interactive classroom program, nine structural engineers taught high school students engineering principals and the "art" of design. Student teams designed and built model bridges utilizing three bricks, a piece of foam board, string, ping pong balls, pins and glue. Home classrooms for the project were part of the San Francisco Unified School District: an art class at George Washington High School and a math class at School of the Arts.

During the course of the instructional period, the students were given background on engineering principals, exposed to common bridge designs, and provided with hands-on tools to explore and experiment with structural concepts. With Maryann Phipps, Donald Cushing, Joshua Kardon, David Nicholson, Andy Fennell, Britta Gardner, Ephraim Hirsch, Janiele Maffei and Kate Stillwell as their teacher-mentors, the students brought to fruition 14 bridges for the competition held on May 12 at the Zeum in San Francisco. The bridges were judged on structural integrity (holding a brick at mid span), architectural design, and written and verbal presentations, with a maximum top score of 100 points. The judging panel for the competition included Jim Malley, President, Structural Engineers Association of Northern California and a Senior Principal at Degenkolb Engineers; Harry Parker, Director, San Francisco Fine Arts Museums; Tom Ruiz, Program Administrator for the School to Career Office, San Francisco Unified School District; Hiep Ho, Architect, Watry Design; Mark Sanchez, member of the San Francisco Board of Education and C. Nicholas

Watry, President, Engineer's Alliance for the Arts.

Students and teachers alike, were thoroughly engaged in the program. During the entire six week classroom period, not one student cut class! In addition, the students gave up lunch hours and devoted extra time to the completion of their bridges, writing their descriptive essays and developing their verbal presentations. They will never again look at a bridge or a building or an engineer in the same manner. This project has opened new horizons for these talented youth, enriched their lives and presented new possibilities for a career in structural engineering or related technical field. The EAA is proud to have been the catalyst for a new and innovative avenue to reach out and expand their knowledge.



Privileged to present the recap of the "Three Brick Bridge Competition" at the Annual SEAONC dinner meeting on June 5, General Chairman, Jax Kneppers and Maryann Phipps, Lead Teacher, spoke about the project overview, results, and the teaching experience. Adding comments and representing the San Francisco Unified School District, Ms. Susan Stauter, Artistic Director for Secondary Schools, told the audience that this was the "best program of its kind she has ever seen". Ms. Stauter thanked the EAA, SEAONC and the engineering community for their dedication to the students and for creating an exciting new avenue of learning. The presentation closed with a tape of the KGO Channel 7 news segment that aired on May 11 on the project – bringing to life this innovative program.

As a result of the incredibly successful project, structural engineers and the EAA sit on a pedestal in the eyes of the San Francisco Unified School District. Associate Superintendent, John Quinn, who was present for both judging and the Awards Ceremony, is thrilled with the outcome of the project. The SF school district has requested an increase in the number of schools participating in the Three Brick Bridge Project next year and other school districts have expressed interest as well.

As part of the program, the EAA awarded

each member of the winning team \$100, each of the two professional classroom teachers \$1000, and each participating school \$2000. In addition, the EAA was a major sponsor of the San Francisco Youth Arts Festival through a contribution of \$25,000. This was all accomplished through the generosity of the following major contributors:

- SEAONC - \$10,000
- Simpson Strong Tie - \$10,000
- Degenkolb Engineers - \$5,000
- Martin Button - \$5,000
- Watry Design - \$5,000
- Computers and Structures, Inc. - \$3,000
- Jax Kneppers Associates - \$3,000
- Simpson Gumpertz and Heger - \$3,000
- Razzano Tovani Associates - \$3,000
- H.J. Brunner and Associates - \$1,000
- ALX Engineering - \$1,000
- DASSE Design - \$3,000
- Dealey Renton and Associates - \$500
- Treadwell and Rollo - \$500
- Weir and Andrewson - \$500
- Middlebrook and Louie - \$500

Many thanks for the generosity of each of the project supporters and for the professional leadership and vision they have each shown.

The project has opened new doors to experiences that previously were not available to high school students. The bar has been raised for other organizations and professions to give the proverbial "taste" of adventures to these students. They have embraced the concept and overwhelmingly want more. Next school year the project will be expanded to include two additional schools in San Francisco (a total of four) and to three other communities, two in the East Bay and one on the Peninsula. The project will also increase to an eight-week classroom session. If you are interested in participating as a teacher-mentor in the 2001/2001 project, please contact either Maryann Phipps at (510) 235-3116, Don Cushing 510) 243-1697 or Executive Director, Jill Weinstein at (925) 935-4556. Four 4 teachers per classroom are needed to make this viable. Volunteer time needed is approximately 40 hours over the course of the program, which includes a teacher orientation.

This has been a most rewarding, exciting experience for all involved. Everyone is welcome to participate!



June Meeting Wrap Up

Annual Awards Dinner for 2001

by Jamison Curry, Program Chair

SEAONC held its Annual Awards Meeting on June 5. The traditional meeting marked the close of another year of SEAONC's activities. The meeting was attended by many of our past presidents, Honorary and Life members and SEAONC Fellow members.

Presentation of the Excellence in Structural Engineering Awards was made to Peter Lee of Skidmore Owings and Merrill for the San Francisco Airport International Terminal Expansion, to John Wolfe of Tipping Mar Associates for the retrofit of Oakland's I. Magnin Building and to Harold Davis of Rutherford and Chekene for UC Berkeley's Hearst Mining Building retrofit.

New President Jon Kiland presented the SEAONC Scholarship Awards to Diane Floresca of UC Berkeley and Andrew Hogue and Nicholas Rodrigues of Cal Poly, San Luis Obispo.

Two new SEAONC Fellows were named and two new Honorary Members were named. The new Fellows are Harold Davis and John Paquette; the Honorary Members are Eric Elsesser and Paul Fratessa.

The Edwin Zacher Award for Outstanding Service to the Structural Engineering Profession was presented to Carrie Bischoff. It was nice to see himself, Ed Zacher, looking on as the award was presented. Ms. Bischoff, in character, gave a presentation earlier in the evening about the new SEAONC website that she and her committee are working on.

Ben Gerwick presented the H.J. Brunnier

Lifetime Achievement Award to T.Y.Lin, who made a charming acceptance speech.

Perhaps the highest regard for the Association, though, came from the remarks made by Susan Stodder, Artistic Director for the Secondary Schools of the San Francisco Unified School District, about the Engineer's Alliance for the Arts and their efforts in San Francisco's public schools to acquaint middle school students with Structural Engineering. She praised the special program very highly for its enthusiastic participants and suggested that it should be continued in San Francisco and exported to other cities. The winning competitors from the Alliance's Three Brick Bridge Contest held in San Francisco's Public Schools were introduced.

Finally our now Past President, Jim Malley, (somewhat unreluctantly, it seemed) passed the gavel to our new President, Jon Kiland.

Posting for Membership

Member SE

Darrick Hom
Project Engineer, Degenkolb Engineers

Member

Ashok Kakade
Principle Engineer, Concrete Science
Ann Roche
Project Engineer, Rutherford & Chekene
Richard Tormey
Owner, Tom Tormey Engineering Consultant
Michael Woods
Engineer, Ben C. Gerwick, Inc.

Associate

James Connolly
Engineer, Ben C. Gerwick, Inc.
David Gonzalez
Designer, Degenkolb Engineers
Vikki Hunter
Hohbach-Lewin, Inc.
Jiri Pertold
Design Engineer, Middlebrook + Louie
Jian Zhou
Engineer, The Bentley Company

Student

Ayse Hortacsu
Graduate Student, Stanford University

Continuing Education Committee

2000-01 YEAR-END REPORT

By Jackie Bassett, Chair

The Continuing Education committee had a very successful year, due in large part to the many active committee members. The committee put together two SEAONC seminars and assisted in the planning of a third seminar, all of which were well-attended. Here is a summary of the committee's major activities for the year:

2000 FALL SEMINAR

"IBC 2000" took place on November 2nd and 9th, 2000, at the PG&E Auditorium. Approximately 300 people attended the seminar. The intent of the seminar was to give an overview of the 2000 International Building Code, with a focus on the changes from the 1997 UBC. The seminar speakers were David Bonneville, Charlie Kircher, and Larry Griffis on the first evening; and Ron Hamburger, Art Dell, and Jon Kiland on the second evening. Topics included Ground Shaking Criteria, ASCE-7 Wind Design, Chapter 16 Seismic Provisions, Chapter 17 Testing and Inspection, Foundation Design Criteria, and an Overview of the IRC.

2001 SPRING SEMINAR

"Foundation Design" took place on March

14th and 21st, 2001, at the PG&E Auditorium. Approximately 250 people attended the seminar. The speakers presented several aspects of foundation design and analysis, including Performance Based Design of Foundations, Soil-structure Interaction, Foundation Rocking, Deep Foundation Systems, Soil Improvement Techniques, and Underpinning Systems. The first evening's speakers included Michael Valley, Dots Oyenuga, and Mark Freitas. The second evening's speakers included Fadel Alameddine, Mike Traubenik, and Tim Mathison.

2001 SUMMER SEMINAR

The committee is currently in the early planning stages of the Summer Seminar, which will cover the topic of steel design. The seminar is scheduled for August 21st and 28th, 2001.

SEAOC SEMINARS

The committee assisted with the planning and conducting of the "Seismic Design Manual (Volume II)" SEAOC Seminar, which took place in June of 2000. This year, the committee will again assist with the SEAOC seminar, "Seismic Design Manual (Volume III)." The seminar will be held on June 21st and 28th, 2001, at the PG&E Auditorium.

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Job Forum

Ahearn, Knox & Hyde has an opportunity for a well-rounded energetic S.E. with an interest in a career change that could track toward a principal's position. Established in Silicon Valley for the past thirty-one years, we are looking for a person who wants more than just employee status in their future. This position would allow you to create your own opportunities. If interested in the possibilities of this type of position, mail your résumé to: Ahearn, Knox & Hyde, Inc., 1505 Meridian Ave., Suite B, San Jose, CA 95125, e-mail: ahearn@akhse.com, or Fax: (408) 267-7919.

Biggs Cardosa Associates has immediate openings for various levels of structural engineers in San Jose, San Francisco, Fresno and Eugene (OR). Come work for a leading and fast growing structural engineering firm on either building or bridge projects. Please check our web site for full details: www.biggs-cardosa.com. You can also send your résumés to Biggs Cardosa Associates, Inc. 1871 The Alameda, Suite 200, San Jose, CA 95126, or by e-mail through our web site. EOE

Buehler & Buehler Associates, Sacramento's largest structural engineering firm, has openings in its Sacramento and Roseville offices for engineers with three or more years of building design experience and strong communication skills. Since 1946, B&B has provided SE services for private and public sector clients in California and the Western U.S. We maintain a staff of 40, with 12 SE's and 8 CE's experienced in designing buildings of various project types. We offer a competitive compensation package and a positive work environment. The area provides excellent affordable housing. Send résumé in confidence to Buehler & Buehler Assoc., 7300 Folsom Blvd., #103, Sacramento, CA 95826. Fax 916-381-8673. Email Buehler@bbse.com. Web site www.bbse.com.

Degenkolb Engineers, has opportunities for engineers to join our creative, enthusiastic, motivated team. Recognized leaders in seismic engineering, our firm offers a diverse, challenging mix of projects on both new and existing structures. Our firm growth is rooted in the career development of our engineers to leadership positions. Bay Area offices are located in downtown San Francisco and Oakland, adjacent to BART. Regional offices are located in Los Angeles and Portland. Our benefits package is unsurpassed in the industry. Openings are available at all levels and all locations. Minimum requirements are MSSE, excellent communication skills, and a desire to work in a challenging, collaborative environment. For more information, visit our web site at www.degenkolb.com. Submit cover letter, résumé and references via e-mail or to Degenkolb Engineers, 225 Bush Street, Suite 1000, San Francisco, CA 94104-4207. EOE

DES Architects + Engineers, a leading mid-Peninsula A/E firm, seeks Structural Design Engineers with CE or SE license, minimum 5 years experience in wood, steel, concrete and masonry. Projects include schools, hospitals, corporate campuses, etc. Competitive salary and complete benefit package. Send résumé with intro letter and salary requirements to DES, PO Box 3599,

Redwood City, CA 94064. Fax to 650/364-2618, Attn: Niki Hithe or e-mail to jobs@des-ae.com. Visit our website at www.des-ae.com.

Outstanding engineers with excellent communication skills sought by award-winning **DeSimone Consulting Engineers** in San Francisco. We are seeking ambitious individuals, from entry-level to Senior Project Managers and MSSE's, for the design of multi-story buildings. Our office is directly adjacent to BART and MUNI. A successful and growing firm, DCE also has offices in New York & Miami. For more information on DCE and a general overview of our project mix, visit our website at www.de-simone.com. Join our exceptional team of professionals! Send your introduction letter and résumé to Mr. Ted Canon, DCE, 10 United Nations Plaza, Suite 410; San Francisco, CA 94102.

Project Engineer. **Dynamic Isolation Systems (DIS)** designs and manufactures seismic isolation systems used in buildings and bridges worldwide. The Golden Gate Bridge, New Zealand parliament building and world bank offices in India are all projects using DIS' base isolation systems for reducing risks during earthquakes. Please visit our web site at www.dis-inc.com. 60-75k salary plus benefits package is being offered for this key position. The responsibilities included isolator design, all aspects of testing, project engineering and project management. The project engineer will be located in DIS' Reno, Nevada manufacturing facility and report directly to the Vice President of Engineering and Manufacturing. The successful candidate must be both detail and result oriented. Experience with building and bridge design is a plus. A P.E. is highly preferred. EOE. Please send résumé to: Personnel, 2080 Brierly Way #101, Sparks, NV 89434.

EQE has immediate openings in Oakland office for engineers at various levels of exp. Seeking Project Manager with min. 10 years exp. in structural/seismic design and analysis of buildings (concrete exp. preferred) verbal/writing and business development skills, and S.E. lic. Also seeking engineer with 3-5 years exp. in analysis and design (P.E. preferred). Send résumé to: EQE International, Attn: Ken Mark, 1111 Broadway, 10th Floor, Oakland, 94607 or e-mail to kmm@eqe.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). 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.

Hammel Green and Abrahamson, Inc. HGA is a 600+ person award winning architectural, engineering and planning firm headquartered in the upper Midwest. Currently, we have a growth opportunity for a Structural Project Engineer in our Roseville, California regional

office. (Roseville is located 20 miles east of Sacramento near Folsom Lake.) Candidates must have at least 4 years' design experience on large-scale project types. Since we are very team oriented, candidates must enjoy being part of a project team and demonstrate very good "people" skills. If you consider yourself to be detail-oriented, thorough in your work processes and someone who understands the importance of successfully managing project deadlines, let us hear from you. This position also offers professional growth, including an opportunity to keep abreast of current and future technology trends, personal recognition and great projects. Be sure to check out our web site! Human Resources Director, Hammel Green and Abrahamson, Inc., 1613 Santa Clara Drive, Roseville, CA 95661. Phone: 916-784-7717, fax: 916-784-7738. EOE/M/F. www.hga.com

Hoogerwerf Engineering Group, Inc. South Bay structural engineering firm seeking individuals interested in joining a team specializing in post-tensioned concrete buildings. All levels of design experience will be considered. Programs utilized include Adapt-PT, Etabs, Safe, Risa, AutoCad 2000. Fax resume to 408-323-2005 or e-mail to hoogerwerfegi@earthlink.net, attn: Personnel Dept. Competitive salary, benefits, company matching retirement plan.

Interactive Resources (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.

MBA Structural Engineers, Inc. seeks project structural engineer with 3 yrs. minimum experience. Tired of the commute? Come join us in downtown Walnut Creek in our growing, professional office environment. We offer a strong compensation package, including flexible hours, bonuses and full family medical coverage. Send your résumé to 1717 N. California Blvd., Suite 2A, Walnut Creek, CA 94596, or fax to 925/933-6140, or e-mail to mbsaeng@pacbell.net.

MKM & Associates of Santa Rosa, CA seeks engineer with minimum 2 years experience with emphasis in timber construction in residential & commercial low-rise buildings. Salary with Bonus considerations dependent on experience & availability to start. Excellent benefits. Please fax résumé to 707/578-7153 or e-mail office1@mkmassociates.com.

Nishkian Menninger seeks experienced registered structural engineer with 10 or more years experience in various types of structures; office buildings, high rises, schools, multiple-tenant residential & other commercial projects, garages and seismic rehab. Résumé & salary requirement to: 510 Howard Street, San Francisco, CA 94105 or e-mail: levon_n@nishkian.com.

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Rinne & Peterson, a medium sized Structural Engineering firm, seeks self motivated, self-starter engineers with effective communication skills from Entry-Level through Senior-Level to work on a wide variety of challenging projects. This is an opportunity with long term growth potential. Ongoing professional development is encouraged and supported. Generous employee benefits including flexible work schedules, great staff, and a very desirable work environment. Send résumé and ref. to: Human Resources, 1121 San Antonio Rd., Suite C200, Palo Alto, CA 94303-4311; fax# 650/428-2861; e-mail: sharonberman@rpse.com.

Rutherford & Chekene is currently offering outstanding career opportunities to engineers and Cad drafters with all levels of experience in both our San Francisco and new Oakland offices. In addition to our generous benefits package, we offer the opportunity to learn from some of the best engineers and Cad professionals in the Bay Area while working on exciting projects - all in a supportive office environment. If you wish to learn more, contact Peter Revelli at: Phone: 415/495-4222, Fax: 415/546-7536, or E-mail: prevelli@ruthchek.com. Also visit our web site at www.ruthchek.com.

Rutherford & Chekene is also seeking licensed CE's and SE's for a challenging 8-12 month forensic engineering project. Position requires 2 days/week in L.A., but offers flexible schedule, generous compensation, and perks. Candidates must be detail-oriented and capable of independent thought, with excellent critical thinking and communication skills. Wood frame residential experience a plus, but no substitute for a sharp mind. Perfect transition job for self-motivated engineers seeking a change of pace. Full time commitment preferred. Contact Peter Revelli or David Bonowitz at: phone 415/495-4222, fax 415/546-7536, e-mail: prevelli@ruthchek.com or dbonowitz@ruthchek.com.

Sr. Structural Engineers! Want to work on a multi-discipline team in the LA area? **SHA Coffman Engineers** is a vibrant co. w/3 NW offices. We've opened a 4th by joining forces w/ an established LA firm. We're seeking energetic & motivated engineers w/MS, PE/SE reg. & 6+ yrs. CA major structures exp. Consult. & mgmt. exp. ETABS or similar desired. Competitive \$\$ & benefits, long-term stability/growth & challenging projects await. Résumés to Saif Hussain at 818-704-5052 or hussain@coffman.com. www.coffman.com

Simpson Gumpertz & Heger Inc. (SGH), founded in 1956 by three M.I.T. professors, is a growing and dynamic consulting engineering firm with \$20M in gross revenues, a staff of 170, and offices in Boston, MA, San Francisco, CA, and Washington, DC. SGH has an international reputation in design, investigation, research and development of structural and building envelope systems, mechanical components, and materials. The variety of our expertise enables the firm to undertake investigative, research, and design projects of a complex and unusual nature. We

seek creative, enthusiastic, motivated individuals for positions in all three offices. We offer an excellent compensation and benefits package in a corporate culture based on learning and growth. At SGH you'll gain the strength of our reputation and the creativity of diverse and complex projects. To learn more about SGH, please visit our web site at www.sgh.com. We are an equal opportunity employer and value the diversity of our workforce. Please forward your résumé and letter of interest to Dept. LAS, SGH, 297 Broadway, Arlington, MA 02474; FAX 781/643-2009; e-mail jobs@sgh.com.

Structural Design Engineers seeks staff/project structural engineers with experience in wood, masonry, concrete and steel design. Min. 4 years experience. MS and C.E. license preferred. Computer analysis skills important. Send résumé to: Structural Design Engineers, 120 Montgomery St., Suite 1410, San Francisco, CA 94104.

Sverdrup Civil, a major nationwide multi-discipline professional services firm, is seeking a structural engineer with a CE license and a BSCE in Civil Engineering. A Master's degree in structural engineering is preferred. Experience with an IBM PC is desirable. Good communication skills and the ability to work with peers and clients is required. A minimum of 3 years experience desired. Candidate should have an interest in proceeding into management. Our office is conveniently located next to the Pleasant Hill BART Station. Please send résumé to: Personnel Manager, Sverdrup Civil, Inc., 1340 Treat Blvd., Suite 208, Walnut Creek, CA 94596. EOE WKW

Are you in a rut at your current job? Looking to branch out, to do some creative cutting-edge design work? To have the opportunity to hone your skills on diverse projects, at a firm nationally recognized for its innovative approaches? Consider **Tipping Mar + associates**. We are a staff of twenty-five, working in a collaborative, enthusiastic environment. Our projects range from seismic upgrades to new construction, in the commercial, residential, and institutional sectors. We are seeking a bright, creative, motivated engineer who enjoys challenging work to join our downtown Berkeley office. 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

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 communi-

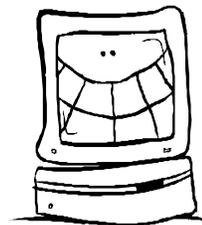
cation skills are beneficial. If you would like further information regarding the Watry Design, Inc., please visit our web site at www.watrydesign.com. Submit all résumés to: Watry Design Inc., 815 Hamilton Street, Redwood City, CA 94063 attn: Julie Snaman or you can send electronically to: jsnaman@watrydesign.com.

Move to beautiful wine country and 'grow' your career at the same time! **ZFA Structural Engineers in Sonoma County** seeks four engineers of varying levels of experience for our busy and growing Santa Rosa office: **1)** We are currently seeking an S.E. with extensive wood experience to help co-manage our Schools project area. Definitely a plus for School / DSA experience. This is a key position with Management and Ownership potential! **2)** ZFA is also seeking to hire two engineers with 1- 3 years experience working with a variety of materials to join our Commercial/Public projects team and our Residential/Light Frame project team (wood experience a must). The Commercial project area will also consider an extra sharp entry-level engineer. **3)** We are also ready to hire an engineer with 3 - 5 years experience to work with our Wineries / Industrial projects team. This person should be interested in working with a variety of both projects and materials. Leave the 'grind' and commute behind and enjoy a great life-style and career by joining ZFA. Excellent profit-sharing, vacation and benefits package. See our website at www.zfa.com. Please E-mail résumé w/ cover letter to: MichaelD@zfa.com.

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Seismology

Continued from Page 3

Though well-intentioned and not hazardous, the current *rho* factor can be difficult to use, is not well-supported by theory or experience, is frequently ineffective at producing more reliable structures, and in many cases may not even be necessary.

In the long term, the Committee's objective is to replace *rho* by more objective and effective provisions sufficient to ensure reliable seismic performance. In the short term, the question remains: what to do about *rho*? The Committee is now developing a few options for the next cycle of IBC and NEHRP provisions:

- Do nothing until the long-term objective can be met.
- Remove *rho* in its entirety.
- Allow the designer to demonstrate reliability by analysis, without a base shear factor.
- Revise the current provisions to address their worst flaws.
- Adopt various combinations of these four options.

Our findings and code change options were presented to the SEAOC Seismology Committee on June 8, after this issue went to press. The Position Statement produced by our local committee will be made available through the SEAONC website.

Steel

Under Rafael Sabelli, the Steel Subcommittee has been influential at local, state, and national levels. The Subcommittee developed code provisions for Buckling-Restrained Braced Frames (BRBF) that are now being finalized in conjunction with SEAOC Seismology and AISC TC9 for publication in AISC Seismic. BRBF provisions for NEHRP may be developed in the coming year. The Subcommittee is following research on steel-plate shear walls and may take up the task of developing code provisions for that system as well. The Subcommittee continues to monitor other steel issues and contribute to work by other groups, such as AISC's nascent provisions on deformation compatibility and SEAOC Seismology's review of FEMA-350 (the SAC Guidelines).

Kevin Moore will succeed Rafael as subcommittee chair. Rafael will become chair of the main committee in November.

Wood

Gary Mochizuki leads the Wood Subcommittee, which has enjoyed growing

participation amid interest in a number of hot topics. The Subcommittee continues to monitor testing by CUREe and others on light-frame construction and is also following various building department policies here and in Los Angeles regarding design of narrow shear walls and semi-rigid diaphragms.

Non-building Structures

Bruce Maison heads this new subcommittee. In the past year it has taken the first few steps toward compiling and assessing the myriad guidelines and standards that cover (or fail to cover) structures ranging from tanks to towers. The Subcommittee has identified the design of storage racks (such as those in warehouse retail stores) as a topic worthy of its immediate attention.

Two competing bills to address potential seismic hazards of storage racks are currently proceeding through the California Legislature. Unfortunately, there is little hard research to support legislation or regulation. The Subcommittee is reviewing recent shake-table tests performed at U.C. San Diego and will seek a more active role in development of technical criteria.

Liaison with SEAOC Seismology

Finally, SEAONC is ably represented on several new subcommittees at the state level.

Eduardo Miranda serves on the new Systems Subcommittee, which will consider topics of broad relevance such as deformation compatibility and drift requirements (Equation 30-7).

Kevin Moore and I are on an ad-hoc committee that will help engineers and building officials make the transition from the FEMA-350 steel moment frame guidelines to actual implementation and regulation. A preliminary document should be ready for distribution by the end of summer.

Ron Hamburger and Nico Luco will be working with the Performance Based Engineering Subcommittee to develop the next generation of standards for seismic design of structures.

A SPECIAL THANK YOU!

To the SEAONC Teller Committee for taking the time to count ballots for the 2001-2002 election.

Participants: Wayne Low, Jason Towle and Taryn Williams

Continuing Education Committee

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MEMBERSHIP

In addition to the above events, monthly committee meetings were held. With 14 active members, this was the largest active Continuing Education Committee ever (at least that I know of). Active committee members for the year included Jackie Bassett (chair), Scot Listavich (vice chair), Constantine Shuhaibar, Reina Farah, Julia Hunting, Angela Weng, Howard Zee, Marci Uihlein, Taryn Williams, John Wen, Troy Morgan, C.S. Hwang, Ken Tam, and Berta Rodriguez. Thanks a million to all of the committee members for your volunteer time and effort! You made the committee a success and made my job as chair a lot easier! I have no doubt that next year's chair, Reina Farah, will do a great job, and that next year's committee will continue to plan and orchestrate successful seminars.

Successful ATC-20 Workshop

By Mark Okamura, DES Committee Chair

Thank you volunteer presenters, helpers, and DES committee members in making this year's Post Earthquake Damage Assessment Volunteer Engineers Training Workshop a success. We were blessed with wonderful weather at the Golden Gate Club, Presidio on June 3rd and a packed house. Even the food was excellent. Although the day was hectic and at times seemed like too much going on all at once, the feedback from the participants consistently reflected the high quality of the workshop. From a possible top score of 4 (outstanding), the overall score for all the presenters and content of the workshop combined was slightly over 3 giving it a rating better than excellent.

Not only was the seminar itself well done, but the participation was outstanding with 145 of 160 registered applicants on hand for the training which included many new faces. (The capacity of the Golden Gate Club is set at 150). We are hopeful that many of those that completed the workshop and signed on to be Disaster Services Workers (DSW) with the State OES will add to the volunteers on our Damage Assessment Engineers call out list (aka phone tree).

Thank you again for all your support. Should you have an interest in joining the active Disaster Emergency Services (DES) committee, please contact Mark Okamura, Chair-DES Committee at 510/874-2295 or Mike Fretz, Vice Chair at 415/538-8600.

Computers and Structures
New Display Ad

NO MONTHLY DINNER MEETING IN JULY

upcoming events

JULY

24

Board of Director's
meeting with Committee
Chairs - City Club

AUG

7

August Dinner Meeting

21

& 28

Practical Steel Design
Seminar (*See insert*)

SEP

4

September Dinner
Meeting

Thank You 2000-2001 Committee Chairs (listed below) for all the hard work and dedication shown throughout the year.

Constantine Shuhaibar
Building Code

Lisa Blanton
Business Forum

Vincent deNevers
Bylaws

Brian Kehoe
Computer Applications

Jackie Basset
Continuing Education

Ross Esfandiari
Construction Quality Assurance

Mark Okamura
Disaster Emergency Services

Jim Miller
Existing Buildings

Reinhard Ludke
Legislative

Michael Higgenbotham
Professional Practices

Jamie Curry
Program

Roger Parra
Public Affairs and Membership

Steven Tipping
Public Relations

David Bonowitz
Seismology

Carrie Bischoff
Web Site

Wayne Low
Younger Member Forum