

A Message from the President

On February 23rd and 24th, SEAOC held a strategic planning session, the first such session to be held in approximately five years. The goal of the session was to look forward to help establish a series of goals and objectives that would guide the organization in its' efforts to most effectively serve the membership and meet the tenets of SEAOC's mission statement. Representatives from each of SEAOC's member organizations attended the session, which was facilitated by SEAOC Executive Director Lee Adler. SEAONC was ably represented by Suzanne Brown, SEAOC Past President Ron Hamburger, SEAONC Vice President Jon Kiland, and myself. My sincere thanks to Suzanne, Ron and Jon for their contributions to the success of this important meeting.

As background to prepare for the meeting, we were all given the previous SEAOC Strategic Plan and the results of the recent member survey. The opening session of the meeting allowed each participant to identify the areas that s/he felt were the five most important areas for SEAOC to focus their future efforts. The comments that were made in this session were then discussed and grouped together by the participants so that all of the most important topics were included. Five major areas of focus for future SEAOC efforts were identified. They included the following (in no particular order of emphasis):

- Certification/Licensing. As I mentioned in a previous article, there is a new movement within our profession to establish a means of certification of members of SEA's (and possibly ASCE's SEI). As you may know, other professions (legal and medical, e.g.) have certification procedures that allow these organizations to be self policing. With the uncertainty of the future of the State of California BOPELS, it became clear that SEAOC must be ready to tackle this issue.
- Education/Training. With the pace of change, new technology and informa-

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April Program - Degenkolb Forum

MAGNIFY YOUR REACH

by Jamison Curry, Program Chair

Our speaker for April, which is the Henry J. Degenkolb Forum, will be Richard Weingart, of Richard Weingart Consultants, Incorporated. His presentation, similar to one that was presented at last year's SEAOC convention in Vancouver, Canada, concerns the role of the structural engineer in society at large.

The public perception of engineers is, generally, that they are trustworthy, hard-working contributors to the well-being of society. There is, however, a general lack of public understanding about what the engineer does specifically and who they are. Asked for instance, who designed a building or a bridge, the public will generally give credit to an architect or contractor or owner, rather than an engineer, whose contribution was paramount. Mr. Weingart will speak about how we as a profession can become more visible to the public.

He advocates identifying "stars" in our profession and promoting them in the public eye, much the way the architects

do. For example, the 65,000 members of the American Institute of Architects spend over \$3.5 million per year to publicize the value of good architecture. Mr. Weingart advises focussing our publicity efforts more upon the general public, by getting involved in the community through board involvement, and – dare we say it – political involvement. He advocates getting to know the press and interesting them in stories about what went right, rather than leaving them to report about the latest disaster.

Mr. Weingart will present specific things that individuals, companies and structural engineering societies can do to enhance the image and visibility of the structural engineering profession.

Mr. Weingart's purpose in all of this is to create an environment where the best and brightest young people are attracted to work in a relevant, well-recognized profession that provides community leaders and role models to society. Leave your pocket protectors and calculators on your desks and come and be inspired by Mr. Weingart.

Ballots Arriving Next Month!

Voting members, keep an eye out for your ballots for the 2000-2001 SEAONC Board of Directors. Ballots will arrive around May 10, 2001 and are due June 5th, 12 noon.

Meeting Notice

Tuesday, April 3, 2001

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

The City Club

*155 Sansome Street, 10th Floor
San Francisco*

Fax registration form on the back of this newsletter to the SEAONC office by **12 noon Friday, March 30, 2001**

EXCELLENCE IN STRUCTURAL ENGINEERING COMPETITION 2001

Don't forget to plan your entry for the Sixth Annual Excellence in Structural Engineering Competition. An entry form and description of the competition rules are included in this month's newsletter. The purpose of this award is to publicly honor creative achievement and innovation in structural engineering design, and to educate the public about contributions of Structural Engineers to the building industry and to public safety.

A Message from the President

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tion that each of us face in our professional lives, it is clear that there is a critical need for SEAOC to provide extensive, high quality venues to help educate and train our members. Publications, seminars, a robust web site and a number of other concepts for improving the transfer of technology to our members were identified. As in the past, this part of SEAOC's efforts will be in combination with the local section Continuing Education programs.

- Business Issues. As an organization of individual members, SEAOC has traditionally not focused on business issues. In the last few years, though, each of the local sections has established a Business Forum as a venue for addressing the business concerns of members of our organization. It may be that a parallel statewide activity of this sort is established to assist our members with a wide range of business related issues. This area of effort may lead to providing opportunities for our members to purchase insurance or obtain other benefits as a result of SEAOC membership.

- Enhancing the Image of Our Profession. As you know, this has been a theme that many have embraced in recent years, but there has not been a definitive plan or focused approach to doing so. The desire to make more of the public aware and appreciative of the importance and achievements of our profession is a long term goal to be sure, but one that we felt was worth effort.
- Influence code and standard development on the national level. As most of you know, there continues to be change occurring in the building code development process. While the SEAOC Seismology Committee is no longer the primary body writing the seismic design provisions for our building codes, our committees can still have major influence on seismic design and the development of new technologies. Aligning our efforts with national code and standard development efforts would be helpful in keeping SEAOC as a primary source for driving seismic design in the future.

In addition to identifying the primary areas of focus for the organization in the future, the group developed a modified

Mission Statement for the organization that is much more focused than the previous version and is consistent with the major goals listed above. The proposed statement reads as follows:

It is the mission of the Structural Engineers Association of California (SEAOC) to advance the structural engineering profession, protect public safety and serve the business and professional needs of the membership.

The end of the strategic planning session involved the development of specific goals, objectives and strategies related to each of the areas listed above. It was agreed that the strategic plan should be re-worked every three years, with yearly revisions and updates. At this point, the recommendations from this session are being prepared for review, discussion and, hopefully implementation at the SEAOC Board meeting at the end of April. If you have any specific input or ideas regarding the Mission Statement and/or the areas of focus listed above, or if you believe that there are other areas that should become a major focus of our organization in the coming years, please share your thoughts with me. I will be sure that the Board considers your ideas.

- James Malley, President

THE SEAONC UNDERGRADUATE SENIOR SCHOLARSHIP PROGRAM

by Jon Kiland, Scholarship Committee Chair

The 1999-2000 SEAONC Board, and then President Joe Sutton had a great idea that SEAONC should sponsor a scholarship program for structural engineering seniors as a method of outreach to the community. Conceivably, some of these seniors would enter the structural engineering profession and become viable employees of local firms, members of SEAONC, future principals and future leaders.

Under last year's Chair, Jim Malley, a SEAONC Board level Scholarship Committee was formed and a scholarship program was established. The 1999-2000 Scholarship Committee included Jim Malley, Reinhard Ludke, and Joe Maffei. The 1999-2000 SEAONC Board allocated a one-time amount of \$50,000 to start the scholarship fund.

The scholarship committee seeks contribution goals of \$15,000 per year to come from charitable donations from local firms and local structural engineers. The scholarship funds are invested into conservative mutual funds with the goal to

seek 10% annual returns.

As we approach the end of the first operational year of the scholarship, we've successfully reached our target of \$15,000 in charitable donations. **The SEAONC Board would like to thank all firms and all individuals who have made contributions for this good cause!** From July 2001 through June 2002, the association will be soliciting new contributions to meet next year's funding goals. All charitable donations to the scholarship fund are tax deductible and restricted to be used to fund senior scholarships.

Approximately 10% of the scholarship fund balance in any given year will be given out as senior scholarships. This year, in September 2001, SEAONC will award a minimum of one \$5000 scholarship to a structural engineering senior for the 2001-2002 school year.

This year's Scholarship Committee has established the scholarship fund investment program and made contact with seven local universities with structural engineering programs at the undergraduate level. The universities include U.C. Berkeley and Davis, Stanford University, San Francisco State University, San Jose State University, Santa Clara University, and Cal Poly San Luis Obispo. A request for qualifications for 2001-2002 structural

engineering seniors was made in the late Fall 2000 and applications were due by March 1, 2001.

Applications were received from twelve applicants, with recommendations from sponsoring faculty members from six universities. The Scholarship Committee along with the Younger Members Forum will evaluate the applicants and make an award selection by May 2001. The successful candidate will be notified and hopefully will attend the June SEAONC Business Meeting dinner to accept the scholarship award.

It is SEAONC's future goal to grow the scholarship fund, and increase scholarship awards on a yearly basis. Soon SEAONC will fund several \$5K awards per year and try to increase the award amount in the future to larger amounts. This is dependent on the strong and generous support exhibited by member firms and individuals for the past year and hopefully extending each year in the future. The SEAONC Board will make yearly contributions to the scholarship fund based on the outlook of the general operating fund and budget at the end of operating years in June of each year. We hope to grow the fund to \$500K and award \$50K per year within ten years of inception. Thank you again for your strong support.

Committees on Assignment

Business Forum

APRIL LUNCHEON MEETING

Date: Thursday April 12, 2001
Time: Board Meeting 11:00 am-
12:00 noon, Lunch/Program
12:00 pm - 1:30 pm
Place: City Club, 155 Sansome Street
San Francisco
Speakers: - Mr. Dennis Meyers, State of
California Department of
Finance, Economic Research
Section
- Principal, Rutherford &
Chekene
- Principal, Degenkolb Engrs.
- Principal, C+D Consulting
Topics: "Northern California Economy
and Costs" & "Impacts for
Structural Engineers Business -
Costs and Fees"
Cost: \$20.00 Business Forum Mbr.
\$35.00 Non- Business Forum
Member
RSVP: Make reservations by calling
the SEAONC office at
415/974-5147 by Monday
April, 9th.

During the past several years we have witnessed a dramatic increase in costs to live and operate a business in Northern California. The costs individuals pay for housing, transportation and living have risen sharply. These individuals are our employees who require and demand higher salaries. Rents, services, energy and business operating costs are higher each year. Dennis Meyers, Economist, who works in Sacramento with the Department of State, Finance Department and Economic Research Section will talk about recent economic history and the forecast for California economy and expected impacts on business. Speakers from Structural Engineering firms will discuss measures they take to keep pace with the costs of operating a business and the hot (cooling?) economic climate in Northern California.

SEAONC SCHOLARSHIP FUND CONTRIBUTORS

A special thanks to the following companies and individuals who have recently contributed to the SEAONC Scholarship Fund! Over \$16,000 has been collected so far. If you have not already done so, please consider making a contribution so that we can add you to this auspicious list.

Contribution Level: \$1000 to \$1999

Rutherford & Chekene
Tipping Mar + Associates

Contribution Level: \$500 to 999

Ingraham/DeJesse Associates Inc.

Public Affairs and Membership

REBUILDING TOGETHER

by Regan
Bramblett,
Rebuilding
Together
Treasurer
Rebuilding
Together 2001
is rapidly
approaching!
We still need
your donations!



Thank you to everyone who responded to our requests for contributions! We have surpassed our promised sponsorship of \$4000. Contributions are used to purchase tools and materials for the projects. We gratefully acknowledge the support of the following contributors to date:

Charles M Salter Associates Inc
American Piledriving, Inc.
Portland Cement Association
Patrick J. Creegan
Romig Engineers, Inc.
Johnson Western Gunit Company
Antony J. Forsyth
Applied Materials & Engineering,
Inc.
Lundgren Engineering Consultants
The Stamm Werks
Jack and Lin Rafferty
DASSE Design Inc.
Carl E. Basore
Ahearn, Knox & Hyde, Inc.
Raj Desai Associates, Inc.

We are still accepting donations so that we can help Rebuilding Together provide assistance throughout the year. If you are interested in contributing, or would like additional information, please contact Joyce Feng at Degenkolb Engineers, 510/272-9040.

REBUILDING TOGETHER NEEDS VOLUNTEERS

by Blake Hoskisson, Rebuilding Together Volunteer Captain

It is that time again! Rebuilding Together 2001 (formerly Christmas in April) has been scheduled for Saturday, April 28th this year. It will again run from 8 am to 4 pm, with a picnic following. We have been assigned to the home of Ms. Gladys Baltodano, located on Alabama Street. Joyce Feng and I are Volunteer Captains this year, and John Westphal and Darron Huntingdale are to be your Skills Captains! We have received donations from the SEAONC members, and now we need volunteers!

For those of you who are not yet familiar, Rebuilding Together is SEAONC's annual charity event. Rebuilding Together is a nationwide, nonprofit organization that coordinates volunteers and sponsorship in an effort to improve the living conditions of disadvantaged homeowners who do not have the ability or means to maintain their homes. This is SEAONC's eleventh year of participation in this annual charity event benefiting low-income, senior, and physically challenged homeowners in San Francisco. Please consider donating one day to this worthy cause. There are lots of great projects for all skill levels. Whether you've single handedly built a house, or never even picked up a paint brush - we can use your help! You will receive a free t-shirt, free lunch, and a great feeling once you see what a difference your participation can make.

If you are interested in volunteering this year, please e-mail or call Blake with the following information:

Name, Home Address, Work Phone, E-MAIL!!! (If no e-mail, provide FAX Number), Previous Experience and Skills

We will be communicating primarily via e-mail this year, so if you have e-mail or access to e-mail, please provide the address.

We will be in touch soon to keep you posted of upcoming events. Please forward this message to your coworkers who may be interested. If you would like to help with the planning process - either volunteer coordination or skills coordination (team captain), please let us know.

Please consider helping Gladys Baltodano this year.

*Ram International
New Full Page Ad*

H.J. BRUNNIER AWARD

Each year, SEAONC presents the H.J. Brunner Award to recognize outstanding achievement in structural design. Traditionally, this recognition has centered around work for a single project. This year, the SEAONC Board would also like to consider the work of an engineer who has designed or influenced the design of several projects. Past winners of this award are:

- 1996 Navin Amin, then of SOM (now of Middlebrook & Louie) - for the new International Terminal at the SF International Airport
- 1997 Simin Naaseh & Paul Rodler of Forell/Elsesser - for the Seismic Retrofit of San Francisco's City Hall
- 1998 David Mar of Steven Tipping & Associates - for the Pacific Place Project
- 1999 Bret Lizundia of Rutherford & Chekene - for work on the Hanna House in Stanford

- 2000 Eric Ko of Ove Arup - for the UC Davis Laboratories Project
- 2000 Chris D. Poland of Degenkolb - for the Stanford Museum Project

In order to be more aware of the breadth and depth of the outstanding engineering work that is done by our membership, the SEAONC Board requests that each member consider making a nomination for a member deserving of receiving the H.J. Brunner Award. Nominations from the membership should be less than one page in length and should be sent to the SEAONC Office at 74 New Montgomery Street, Suite 230, San Francisco, CA 94105, for consideration by the Board of Directors by April 15, 2001. In this past year of frenzied design and construction, the competition should be fierce! We look forward to receiving your nominations for this prestigious award.

March Meeting Wrap Up

SEISMIC RETROFIT AND RENOVATION OF THE HEARST MEMORIAL MINING BUILDING AT UC BERKELEY

by Jamison Curry, Program Chair

Thanks to our March speakers, Brendan Kelly, from NBBJ architects, and Hal Davis, of Rutherford & Chekene. They described the seismic retrofit and renovation, currently under construction, of the Hearst Mining Building at UC Berkeley.

Mr. Kelly began by talking about the original building, its uses, and how the renovation would create new spaces for lab facilities, while maintaining and restoring some of the historic spaces. These included the entry foyer, with its Guastavino tile ceiling, and a lab with a skylit ceiling with restored steel roof trusses. Mr. Kelly noted that the use of shotcrete reinforcing over the existing walls in the superstructure was not required, due to the use of the base-isolated foundation. He praised the University for restoring one of its historic treasures, rather than simply building a new building.

Mr. Davis then described some of the engineering required for the base-isolated structure. Studies for retrofitting the building, which is within 250 meters of the Hayward fault, began in the 1970's. McClure and Messenger studied the building in 1974 and Degenkolb in 1979; both firms reached the same conclusion – that the building had poor seismic resistance and posed a great falling hazard threat in a major earthquake. In the early 1990's, Rutherford & Chekene was engaged to create a fixed-base scheme, and later, to study a base-isolated scheme.

Performance objectives set for the base-isolated scheme in the Probable Earthquake (50% probability in 50 years) and the Design Basis Earthquake (DBE) were the same: the isolation system would remain functional, the superstructure would suffer only minor damage, and the nonstructural portions supported by the building would have only minimal disruption. In the Maximum Credible Earthquake (MCE), the performance objective was to maintain the stability of the isolation system and to prevent collapse in the superstructure. The DBE had a peak spectral ground acceleration of 1.8 g and the MCE had a peak of 2.7 g.

The isolation system chosen after study of 8 different types and a competitive selection process was a high-damped elastomeric isolator system, manufactured

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Bulletin Board

MEMBERS IN THE NEWS

Frank Li Promoted to Associate at Hohbach-Lewin, Inc.

Hohbach-Lewin, Inc. is pleased to announce the promotion of SEAONC Member Frank K. Li, S.E. to Associate. He has been with the firm since early 1998, and has served as the firm's Manager of Information Systems as well as Project Engineer on the Crow Canyon Center Office Building, the 3-story San Leandro High School Science Building, the 32-story Ordway Building seismic analysis, and numerous other commercial, residential and institutional projects.

CALL FOR PAPERS

2001 SEAOC Annual Convention

The Structural Engineers Association of California issues this Call for Papers to be presented at its 2001 Annual Convention, held at the Loews Coronado in San Diego, California. The dates of the Convention are Wednesday, September 26 through Saturday, September 29.

It is anticipated that the technical program will be composed of papers in the following areas:

Practical Design

Papers of this type will focus on information that can be readily utilized by

structural engineers in day to day design. Pertinent topics would include (but not be limited to) the design or retrofit of buildings, bridges, marine structures, tanks, and towers.

Research/New Methods/New Application

These papers will focus on recent research with application to structural engineering, new methods of analysis, and the use of new materials or new applications of traditional materials.

Business

These papers will discuss the business of structural engineering and could address any of the following issues: new markets, liability, fees, human resources, insurance, publicity, or professional services.

Interested parties should fax a brief (300 words or less) abstract of their paper before April 1, 2001 to:

Eric Lehmkuhl
Technical Program Committee
2001 SEAOC Convention
KPF Consulting Engineers, Inc.
3131 Camino Del Rio North, Suite 1080
San Diego, CA 92108
Phone: 619/521-8500
Fax: 619/521-8591

Authors will be notified of acceptance by May 1, 2001 and papers ready for publication will be due around July 1, 2001. Authors will be provided with detailed guidelines for publication.

SEAONC AND SFDBI

FREE WORKSHOP ON BUILDING SEISMIC INSTRUMENTATION

The Structural Engineers Association of Northern California (SEAONC) and the San Francisco Department of Building Inspection (SFDBI) are jointly sponsoring a free workshop on seismic instrumentation. The seminar will be held at DBI, 1660 Mission Street, Room 2001 on April 9, 2001 from 5:30 p.m. to 8:30 p.m. Anyone interested in seismic instrumentation or the San Francisco Building Occupancy Resumption Plan (BORP) is strongly encouraged to attend. Space is limited to the first 50 registrants. To register call the SEAONC office at 415/974-5147. Below is the tentative agenda for the workshop.

AGENDA (TENTATIVE)

5:30 Chinese buffet or pizza

NOTICE OF DISTRIBUTION OF LATEST ISSUE OF PLAN REVIEW NEWSLETTER

SEAOC is still fine tuning the distribution of Plan Review to cut cost and achieve efficiency of distribution. The distribution system SEAOC is using for this issue consists of a "blast" e-mail to all we have e-mail addresses for, hard copies to those who have so requested, and posting on the SEAOC Web site on the secure page accessed by user ID "SEAOC" and password "SEA32OC." Plan Review will have been e-mailed, snail-mailed, and posted by the time you read this.

Ultimately, SEAOC would like to get to the point of everybody on e-mail and Web site posting only to avoid having to mail hard copies and to eliminate printing and postage costs. However, we're not there yet.

Articles in the issue include:

- A legislative report outlining SEAOC's program in this area.

MARCH PROGRAM WRAP UP

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by Andre. The system also utilized 12 supplemental viscous dampers in each principal direction of the structure. The width of the surrounding moat is 30".

Mr. Davis then described the underpinning and construction of the base-isolated foundation. Because the University required the retention of useable floor

- 6:00 California Integrated Seismic Network (CISN) - installation guidelines - Dr. Mehmet Celebi, USGS; Tony Shakal, CDMG Strong Motion Instrumentation Program
- 6:20 American National Seismic Systems (ANSS) - Jon Heintz, Technical Integration Committee Chair.
- 6:25 Consortium of Organizations for Strong Motion Observation Systems (COSMOS) - Tony Shakal
- 6:30 Seismic instrumentation equipment, installation, recording, costs, maintenance, data retrieval - Mel Lund of Ogie Kuraica, Kinemetrix
- 7:30 Data analysis for actual building damage; disposition of results - Tony Shakal
- 8:00 An engineer's experience with the process - Patrick Buscovich
- 8:10 SAC Guidelines impact on instrumentation issues - David McGillicuddy
- 8:20 SF requirements for post-earthquake damage inspection and testing; UBC Appendix 16, Div. II for existing buildings - Zan Turner, DBI
- 8:25 Promoting instrumentation to building owners; Committee guidelines

- Comments by SEAOC President, Bob Hendershot.
- A summary of SEAOC Board actions including a roster of the 2000-2001 officers and directors.
- Member Survey summary.
- 2000 Salary survey order form on the Web site.
- Employment opportunities.
- Letter to the Editor regarding building codes.
- AISC news.
- 2001 SEAOC convention call for papers.
- News Briefs and announcements.
- ATC publications.
- Engineering Excellence Award competition entry form.
- And much more.

As always, if you have a suggestion for improving the value of Plan Review to the member reader, please pass it on. Also, if you have a letter to the Editor or wish to contribute an article, feel free to submit it for review. Thanks for your continued support of SEAOC and SEAONC.

area, the foundations, isolators, and new first floor slab construction required the removal of all existing foundations. The process of load transfer, isolator installation, and first floor construction is more than 50% complete at this time.

More of the history of this building is included in the article in last month's newsletter.

Job Forum

Ahearn, Knox & Hyde have an opportunity for a good entrepreneurial type S.E. with an interest in a career change that would track toward attainable participation in future shared ownership. Established in Silicon Valley for the past thirty years, we are looking for the right person who wants more than just employee status in their future. Control your own career potential. If interested in the possibility of joining us send your résumé to Ahearn, Knox & Hyde, Inc., 1505 Meridian Ave., Suite B, San Jose, CA 95125, or e-mail: ahearn@akhse.com.

Immediate Openings: Civil and Structural Engineer. **Bevier Structural Engineering**, a Sacramento, California based firm has immediate openings for senior and mid-level engineers who can assume leadership and responsible roles. Projects include schools, hospitals, commercial, and industrial buildings. Our firm offers excellent opportunities for growth and advancement for civil and structural engineers with building design experience. We offer a competitive compensation and benefits package as well as a positive work environment. California CE or SE license preferred. Please fax or e-mail résumé to: Bevier Structural Engineering, phone 916/631-3030, fax 916/631-8996, e-mail: bill@bevier.net

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 résumé to Biggs Cardosa Associates, Inc. 1871 The Alameda, Suite 200, San Jose, CA 95126, or by e-mail through our web site. EOE

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

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and salary requirements to DES, PO Box 3599, Redwood City, CA 94064. Fax to 650/364-2618, Attn: Niki Hithe or email 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.

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.

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.

KPFF Consulting Engineers seeks Project Managers and Project Engineers w/5-15 years experience in the analysis and design of buildings. Experience in all building materials req'd. CE license required; MS degree preferred. Applicant must be motivated and possess excellent written and verbal skills. Send résumé with references to: KPFF Consulting Engineers, 180 Pacific Avenue, San Francisco, CA 94111. EOE

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.

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, email prevelli@ruthchek.com or dbonowitz@ruthchek.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.

URS, a leading professional engineering and environmental consulting firm, is seeking Structural Engineers for its San Francisco office. With over 16,000 employees worldwide and a staff of 650 in the Bay Area, URS is one of the world's most diverse and fastest growing architectural and engineering companies. We offer a broad range of exciting worldwide project opportunities in Facilities Design, Surface Transportation Design, and Aviation Facilities Design. We are seeking Civil/Structural engineers to join our team in San Francisco. The positions require a BSCE, with MSCE preferred. We are seeking qualified candidates at all levels, from entry level to 20+ years of experience. Training and/or experience in building design, seismic analysis, seismic evaluation, retrofit design, and production of structural design documents is preferred. Candidates must be familiar with California Building Codes. We offer a competitive salary/benefits package. Send résumé with salary history to URS, Human Resources - SSE, 100 California St., Suite 500, San Francisco, CA 94111 or email to Barbara_Noel@urscorp. Equal Opportunity Employer.

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 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.

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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.

Structural Engineer. Guy Nordenson and Associates, New York, seeks bright Engrs w/initiative, 3-7 yrs exp, MS req'd, for complex institutional projects worldwide. Exc benefits. Fax ltr w/salary reqs & résumé to 212/766-9016 or email to: mail@nordenson.com.

Jakaby Structural Engineers-has immediate openings for entry level and higher structural engineers, designers and CADD operators. Projects include steel frame office, concrete tilt-ups, industrial facilities, seismic upgrades, small bridges, custom homes and modifications to existing buildings. We are a small growing firm with challenging projects. Upcoming projects include 2-story STMF office buildings. Excellent salary, medical & retirement plan. Website: www.jtjse.com, Mail: Jakaby Structural Engineers, 4950 Hamilton Avenue, Suite 204, San Jose, CA, 95130. Fax: 408/374-5911.

Lionakis Beaumont Design Group is a full-service A/E firm with multiple positions available for building design engineers. Design challenging projects in wood, masonry, steel and concrete for large corporate, institutional & governmental clients. Obtain experience with all the latest codes and regulatory agencies i.e. State of CA seismic retrofit program, the full line of FEMA and ATC documents, OSHPD, DSA, etc. Utilize new computer aided design techniques including SAP pushover analysis for seismic rehabilitation of existing structures, ETABS, RISA 3D, RAM and many more. 2-8 yrs experience required. Excellent medical, dental, vision and company benefits with competitive salaries, retirement and bonus structure offered. Forward résumé to jobs@lbdg.com in FTF or Fax: 916/558-1919. EOE

MBA Structural Engineers, Inc. seeks project structural engineers with 3 yrs. min. experience. Tired of the commute? Come join us in down-

town 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 mhaeng@pacbell.net.

MFT Consulting Engineers, Inc. is seeking Structural Engineers for San Francisco office. Applicants must have a BSCE Min., MSCE - Structural highly preferred, 5-10 years experience in office, commercial and healthcare with California PE required /SE preferred. Excellent Health Benefit Package. Profit Sharing Plan. Interested persons should fax their résumé along with salary history to: Munah Tarazi @ 415/227-4683 or mail to 120 Howard Street, Suite 420, San Francisco CA 94105.

OLMM (www.olmm.com), and award winning structural engineering firm, has immediate opening for a Project Engineer in its Oakland office. We offer challenging and interesting projects, top salary and benefits, excellent opportunity for growth, and a great place to work. Minimum requirements: MS in structural engineering, PE license, and 3 years of responsible structural engineering experience. Please contact Sunil Gupta, sunilg@olmm.com

SOHA Engineers seeks experienced Civil/Structural engineer to specialize in the design of building shoring, deep excavation shoring, underpinning, tunneling, foundation and construction support. Offers stability, great learning environment, career growth opportunity. Must have good technical skills, be detailed-oriented, able to think and work fairly independently, team player with interest in working in a fun and technically challenging environment. Résumé with cover letter to: SOHA Engineers, c/o Human Resources-PE, 550 Kearny St, Suite 200, San Francisco, CA 94108 or FAX 415/989-9900.

SOHA Engineers seeks experienced Bridge/Transportation engineer to specialize in the design/analysis/retrofit of bridges, civil structures, transportation and aviation facilities. Seeks Project Engineer and Project Management levels. Offers stability, great learning environment, career growth opportunity. Must have good technical skills, be detailed-oriented, able to think and work fairly independently, team player with interest in working in a fun and technically challenging environment. Résumé with cover letter to: SOHA Engineers, c/o Human Resources-PE, 550 Kearny St, Suite 200, San Francisco, CA 94108 or FAX 415/989-9909.

Structural Design Group of Santa Rosa, is looking for a motivated engineer looking to get in on the ground floor of a young, fast growing company. Associate position available for a bright, creative individual with experience in educational facilities, low rise commercial, or residential structures. We offer unlimited opportunities for career advancement with ownership potential and an excellent salary/bonus/benefit package. Please fax résumé to 707/284-3646 or e-mail: RichB@s-d-g.net

Are you a Structural Engineer/Project Manager seeking a challenging variety of projects? **TEAC Consulting Engineers**, a leader in light-gauge steel design & traditional wood assembly, offers structural engineers a rare opportunity to participate in a wide range of residential & light commercial projects. Requires a min. of 3 years cumulative structural experience in wood, masonry, concrete and steel design (Min. 1 year of wood). Competitive Salary, Med/Dent/401K. Fax res 925/275-0126 or employ@teacengineers.com

Toft, de Nevers & Lee, a small size structural engineering firm seeks entry level structural engineers interested in residential and commercial projects. Send résumé to: Calvin Lee, Toft, de Nevers & Lee, 111 Maiden Lane, Suite 500, San Francisco, CA 94108 or fax 415/421-2966.

Structural Engineer. Career opportunity for a P.E. with experience in building design. Successful candidate will have Professional Engineer certification (S.E. preferred) with particular expertise in lateral load analysis. Please send résumé to Diane Campbell, Corp. Engineering, **Trus Joist**, A Weyerhaeuser Business, PO Box 8449, Boise ID 83707-2449.

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Registration

Structural Engineers Association of Northern California *April 3rd SEAONC PROGRAM*

5:45 PM
General Assembly

6:30 PM
Dinner

7:30 PM
Program

"Magnify Your Reach"

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.

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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 preregistration: 12 noon, Friday, March 30, 2001

Dinner and program reservations are limited to 180. Register early! No cancellations after 12 noon, Friday, March 30, 2001. *No-shows will be invoiced. Tickets not claimed by 6:45 p.m. on the night of the event are subject to being sold. Note: Individuals with outstanding monthly meeting balances are required to pay in advance for a meeting reservation and pay all outstanding monthly meeting invoices.*

COST:	PRE-REGISTERED	LATE REGISTRATION
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