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VOL. LVII, NO. 4 74 NEW MONTGOMERY STREET, SUITE 230 SAN FRANCISCO, CA 94105-3411 415/974-5147 APRIL 2002

A Message from the President

SEAONC members have long been aware of the fact that the image of structural engineers needs improvement. Our ideal is to increase society's recognition of structural engineers and their value to society. There is no way to change society's perceptions overnight; however, every small community service that structural engineers can offer will help us reach our goal. Volunteering for community service will enrich the personal lives of the structural engineers involved as well as the people affected.

There are many venues of community service that SEAONC members can pursue, but one way or another, if we are to succeed at our goal, we must become involved and outspoken in society and in our communities.

One excellent way to contribute is to volunteer as a worker for the SEAONC / Rebuilding Together project scheduled for Saturday, April 27, 2002. Working on this project gives individuals a very gratifying experience of charitable contribution. Additionally, both young and more experienced engineers can try their hand at carpentry, which always gives valuable real-world experience to wood-frame designers. There is always something enlightening about seeing the actual size of wood joists, beams and posts, the actual size of nails, and feeling the strength of framing after it is put together in real life. There are also other projects, including painting, electrical, and plumbing, for those not interested in carpentry. My past experience is that the day is extremely personally rewarding.

The Public Affairs and Membership committee is running the SEAONC / Rebuilding Together project and welcomes volunteers (please see flyer). Additionally, the Public Affairs and Membership committee is responsible for career day presentations at local high schools. Anyone interested in making a

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April 2nd Dinner Meeting Program

Degenkolb Forum:
The Search for the Perfect Seismic Solution

Eric Elsesser
Forell/Elsesser Engineers

by Jamison Curry, Program Committee Chair

Eric Elsesser, Principal, Forell/Elsesser Engineers.

Our speaker for April is familiar to most of you. This is as it should be, for April's program is the Degenkolb Forum, in which we recollect Henry Degenkolb and his generous contributions to the field of Structural Engineering. Mr. Elsesser is a man of like stature and he will present "The Search for The Perfect Seismic Solution."

Over the past 100 years the San Francisco Bay Area has been blessed with creative Structural Engineers who have pursued the search for the perfect seismic solution in the design and construction of their buildings. After every earthquake we have all learned from the damage. With research testing we have all grown to understand the mechanisms we use. This presentation is a chronicle of our collective work, from 1900 unreinforced brick masonry, to 1910-1980's steel and concrete frames, to dual systems, and to 1990's sophisticated damping devices and seismic isolation systems.

Our current structural engineering challenge is to assure good seismic performance. To minimize inter-story drift is a normal performance goal and certainly protects both the structure and non-structural components, but large drifts are required to dissipate seismic energy in the superstructure. This is a contradiction, and its solution requires new ideas and approaches. Some suggestions will be presented.

Meeting Notice

Excellence In Engineering Award Judging and Degenkolb Forum

April 2, 2002, at The City Club

155 Sansome Street, 10th Floor, San Francisco

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

Fax registration form on the back of this newsletter to the SEAONC office by
12 noon Friday, March 29th, 2002

EXCELLENCE IN ENGINEERING JUDGING will take place at this meeting. Project entries from SEAONC, SEAOSC, SEAOCC, and SEAOSD will be displayed. SEAONC members--be sure to arrive on time to cast your vote!

A Message from the President

Continued from page 1

presentation at their Alma Mater should call the committee and have a date arranged.

Other programs that SEAONC is involved with this Spring are the EAA / Student Impact Project and the SEAONC / Lego project, which are taking place at Bay Area schools. The LEAP Kite-Building Challenge, 2002, will take place June 22 at the Marina Green, and SEAONC will sponsor a team. The EERI Northern California Chapter is tackling earthquake hazard mitigation. All of us are free to pursue community groups such as school boards, community and city planning groups and commissions, not to mention community association groups and church groups and committees. There are many venues where structural engineers can contribute expertise for the well-being of society and the well-being of our profession.

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On another note, the **SEAONC Scholarship Fund** is in great need of donations for this year's scholarship awards. Scholarship applications were due in March and awards will be made at the June Annual Awards dinner. Several applicants were personally selected by professors from each university. The scholarships will be awarded to undergraduate seniors (next year) who are about to make their decisions about their future professional direction. Scholarship applications were received from students at six major universities around the Bay Area including Cal Poly. Everyone is strongly encouraged to contribute to the Scholarship Fund to keep this important program in good health. If every member contributed $10.00, we would generate a significant sum.

We hope that you agree that the Scholarship Fund is a worthwhile undertaking, and worthy of your support. We look forward to your contribution to the fund in this and future years. All donations are tax deductible and we greatly appreciate your continued support.

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This year's SEAONC Awards are rapidly approaching. Most of the Awards will be presented at the June dinner meeting and we are presently taking nominations for these awards. Please send your nominations to the SEAONC Office. The upcoming awards are:

- Community Involvement Award, in recognition of the person who performs outstanding community services (awarded at the May dinner meeting).
- The SEAONC/SEAOC Engineering Excellence Awards. The Awards program requirements have been published in past newsletters.
- The H.J. Brunnier Lifetime Achievement Award, for outstanding achievement in structural design encompassing an entire body of work.
- The Edwin G. Zacker Award, for outstanding service and contribution to the profession of structural engineering.
- Designation as a SEAONC Fellow, for outstanding contributions (15 years minimum) to the Association or to the field of structural engineering.
- Designation as a SEAONC Honorary Member, in special recognition of the person's contribution to the excellence of the structural engineering profession.

Please join us at the June Annual Awards Meeting for the presentation of many of these awards.

--by Jon Kiland, SEAONC President, 2001-2002

Volunteer Needed to Participate in SEAOC Code Streamlining Committee.

The SEAOC Code-Streamlining Committee is an effort to create a document which will apply to smaller, regular buildings not requiring complex analyses. If you are interested, please contact SEAONC President Jon Kiland at Kiland@DASSE.com.

March 5th Dinner Program Wrap-Up

San Francisco's New Transbay Terminal

Evan Rose, SMWM Architects

by Jamison Curry, Program Committee Chair

Our March dinner meeting speaker, Evan Rose, from SMWM Architects, is to be commended for his very interesting presentation about the new Transbay Terminal.

Mr. Rose could also be commended for his persistence – he and others have been working on the new Transbay Terminal in some capacity for over 9 years. Mr. Rose has seen the project die in planning stages, only to have its rock roll away in 1999. A fitting story for Easter or for springtime– don't you agree?

Mr. Rose explained that the project has taken such a long time because of the diverse needs of the various stakeholders. There are five: Caltrans (which owns the present building, designed by Timothy Pflueger in the 30's), Alameda Contra Costa Transit District, the Metropolitan Transit Commission, the City of San Francisco, and Caltrain. After several years, these stake holders had not been able to reach any sort of consensus as to what the project should consist of. Caltrans revived the project and hired SMWM. SMWM, along with Richard Rogers, the designer, and Arup, Inc., the engineers, proposed that a Transbay Terminal Panel be formed. This panel would bring together the stakeholders and the designers to create a clear vision for the project.

After 2-1/2 years, consensus has been reached, and a master plan for the project is in place. The stakeholders and SMWM have created an exciting vision. The new Transbay Terminal will become a true multi-modal transportation link for the Bay Area. Not only will AC Transit Buses and San Francisco Muni Buses and Streetcars utilize the facility, but Caltrain will also, and there are proposals for high-speed rail connections to Los Angeles and Sacramento in the more distant future. Pedestrian connections to BART are proposed and the space itself is imagined as a grand public room, akin to Grand Central Station in New York City or Waterloo Station in London. The proposed building, which is planned to cover 3 city blocks, bridging the streets between them, has a glass façade, which allows a day-lit interior, and has natural ventilation--both environmentally sustainable features. Retail spaces are included in the building. When finished in 2008, the 600,000 square foot Terminal building is expected to cost $888 million; the Caltrain Terminal facility will cost $1 billion.

Over 6 million square feet of development is proposed for around the Transbay Terminal. This will consist of 3000 housing units (25% of which are to be "affordable"), office, retail, conference, and hotel space, to be developed jointly by the stakeholders.

In Memoriam: Dr. John A. Blume

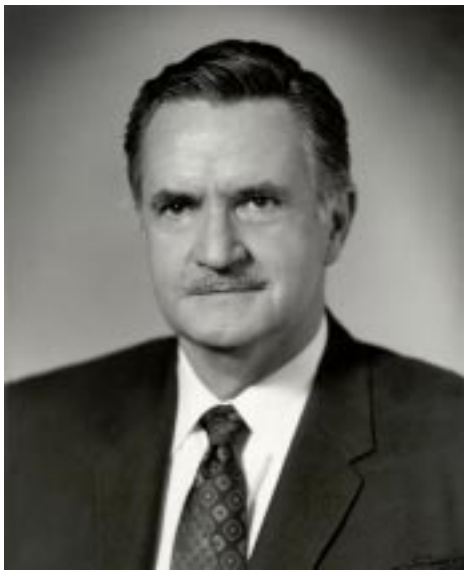
By Joseph P. Nicoletti

John A. Blume passed away at his home in Hillsborough, California early in the morning of Friday, March 1, 2002. He would have been 93 in April. John is recognized as an eminent pioneer in the understanding and practice of earthquake engineering and for his many professional contributions to the advancement of SEAOC and EERI.

John was born in Gonzales, California, but the family soon moved to San Francisco where his father, Charles A. Blume, became a prominent steel erection contractor (the steel framing for San Francisco City Hall is among his more notable achievements). John graduated from Lowell High School and was admitted to Stanford University where he was awarded a B.A. degree in 1933 and an Engineer degree in 1935. At Stanford, he developed a close rapport with Professor Lydik Jacobson who was to introduce him to the study of structural vibrations and dynamics that later John would apply to the understanding of structural response to earthquake ground motion.

Upon leaving the university, he worked briefly as a field engineer for the U.S. Coast and Geodetic Survey and for the State Toll Bridge Authority on the construction of the San Francisco Oakland Bay Bridge. Upon completion of the bridge, he accepted a position with Standard Oil Company of California as a design and construction engineer where, together with John Rinne, he helped to develop seismic design standards for refinery structures, many of which are still in use by the industry. Impressed with Henry Brunnier's design of high-rise buildings in San Francisco, in 1940 Blume left Standard Oil to join the Brunnier firm that had been awarded a number of defense contracts in the U.S. and Panama for the design of buildings and waterfront structures in the military buildup preceding the U.S. entry in World War II. In 1945, after his recovery from a severe case of pneumonia, he decided to hang out his own shingle as John A Blume, Structural Engineer.

John's work at Standard Oil led to important major projects which quickly expanded his fledgling firm. Buildings and waterfront structures for ARAMCO in Saudi Arabia and laboratory facilities for Chevron Research in California led to the employment of an engineering staff and the firm name was changed in 1952 to John A. Blume and Associates. In 1957 the firm was incorporated and four key associates were designated as stockholders and principals. In 1971 the firm was merged with the URS Corporation.



Dr. John A. Blume

Photo Courtesy of John A. Blume Earthquake Engineering Center

Some of the major design projects undertaken by the Blume firm include the Stanford Linear Accelerator, the restoration of the California State Capitol, the Embarcadero Center Complex including the Hyatt Regency Hotel, the Diablo Canyon Nuclear Power Plant, and the Commercial Port for the Government of Guam. In addition to the design of the Diablo Canyon Plant, the firm provided earthquake engineering services to over 70 nuclear power plants in the U.S., Japan, and Europe, and John was appointed as a consultant to the U.S. Nuclear Regulatory Commission (NRC). The NRC also selected the firm to monitor structural responses to the underground weapons testing at the Nevada Test Site.

Even with the management of a successful engineering firm, John found time to pursue his interests in the dynamic response of structures and promoting the understanding of how ductility allows a structure to absorb energy and survive exposure to ground motion that would collapse a stronger but less ductile structure. His analytical research, documented by many technical papers and professional presentations on this subject, was eventually confirmed by recorded responses of buildings subjected to actual earthquakes and many of his ideas for the improvement of building codes were subsequently adopted. John was particularly proud of his contributions to the "Design of Reinforced Concrete Structures for Earthquake Ground Motions" in collaboration with Nathan Newmark and Leo Corning. The book provides guidelines and examples for the design of ductile concrete frames that became the basis for many of the ductile concrete provisions in the building codes.

In 1964, at age 55, John decided to return to Stanford to pursue a doctorate in engineering. In spite of conflicting demands on his time from impatient clients for travel and meetings, he completed his dissertation on "The Dynamic Behavior of Multistory Buildings with Various Stiffness Characteristics" and was awarded his Ph.D degree in 1967.

John was a strong proponent of professional societies and encouraged and supported his employees in their membership and active participation in SEAOC and EERI. John was a past president of SEAONC, SEAOC, EERI, and CEAC; he served on numerous committees and received many honorary awards. He was an active member of the 1948 Joint Code Committee (ASCE/SEAONC) that drafted Separate 66, published in the ASCE Journal, which later became the basis of the first SEAOC Blue Book. He was also a member of the Advisory Council on Engineering Seismology, which eventually became the Earthquake Engineering Research Institute (EERI).

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There will be a Memorial Service on April 18 at 4:00 p.m. at the Stanford University Memorial Church. For more information, contact Racquel Hagen at racquelh@stanford.edu, or go to http://blume.stanford.edu.

THE THREE BRICK BRIDGE CONTEST

By Don Cushing, Treasurer, EAA

Those of you who know me are aware of the fact that I am passionate about some things. Those of you who know me well, know that *that* is an understatement. As a matter of fact, that particular emotion can sometimes get in my way when I find the need to be purely objective and logical. In this case, however, passion and logic are one.

As many of you already know, volunteers for Engineers Alliance for the Art's "Student Impact Project" are currently in the process of teaching an eight week course at five Bay Area high schools and one middle school. It has been a great opportunity for us as teachers to engage these students with things we as engineers have a passion for.

However, this eight-week course, titled the "Three Brick Bridge Contest," does much more than teach the students about the logistics of building a model bridge. They learn about fundamental loads, stress, material and scale. They learn how basic mathematics can be applied to real life. They learn about beams, struts, cables and cantilevers. They learn about six basic bridge types, and why they work. We build things and break things, assemble and make things. And, hopefully, they learn about all this in a fun and creative way.

But, I contend that in this process, just as important as teaching these concepts, is the fact that these students learn about what our profession actually does. So aside from the passion to teach engineering, there is the logic of helping to educate the future of America as to the role that the engineer plays in society. Not by lecturing anyone, but by engaging them in thought. By showing them if you will, as the title of Samuel C. Florman's 1976 book states, "The Existential Pleasures of Engineering."

Unfortunately, the public cognoscenti never cease to assure us that we are prisoners of the left hemisphere of our brain, destined for greatness in mundane analytical tasks, but mediocrity in emotional intelligence and communication. Well, fellow engineers, here is our chance to communicate.

Many talented engineers are devoting many hours of time to the preparation, teaching and administration of this course. For this year, we have estimated that over $250,000 of billable time will be devoted by the EAA board of directors and the 24 dedicated structural engineering teachers. Incredible. But, unfortunately, it is not enough. In order to keep the program running, what we really need now is money: money to buy supplies, money to administer the program, money for the other numerous components of the program.

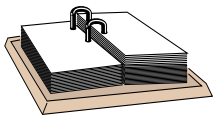
Some individuals and corporations have donated funds to our cause, and to all those who have contributed, we thank you with all our hearts. But, if you have not yet contributed to the EAA "Student Impact Project" please consider doing so. Last year, the first year of the program, we taught at 2 San Francisco schools and reached over 40 students. This year we are teaching at 6 Bay Area schools and are reaching over 150 students. With your help, next year and the following year we could, perhaps, reach schools and students throughout California. Imagine the best and the brightest choosing *our* profession because someone made a favorable impression on them when they were young inquisitive students. Imagine the impact.

If we received $10 from each of the 2,800 recipients of this newsletter, the $28,000 generated would go to a great cause. If each recipient donated $100, then the $280,000 generated would go to an even greater one.

Last year, the first place winner, in her post-award comments to a captive audience at the Yerba Buena Center, said she "…would like to become a structural engineer." Although other students made similar comments during the course of the year, that remark, in and of itself, would have made teaching the course worthwhile. Now, we ask for your help to allow us to continue to hear that statement every year - from many students - in perpetuity.

CALENDAR OF EVENTS

April 2nd Dinner Meeting - The City Club, San Francisco, RSVP: 415/ 974-5147



April 18th - Young Members Forum Spring Social--Thirsty Bear Brewing Company, 6-8 p.m

April 27th - Rebuilding Together. To volunteer or for more information, contact Jennifer Masich Lynn, 510/272-9040, ext. 215.

Note: No Business Forum Meeting this month. Postponed until next month.

New Members

Member SE

Douglas Robertson, Dir. of Structural Eng.
DES Architects & Engineers

Paul Slattery
Structural Engineers, Inc.

Member

Derek Chau, Project Engineer
McGuire & Hester

Sako Noravian, CEO
E2C Inc.

Michael Salehi, Struct. Eng., Project Mgr.
City of San Jose

Farid Shahrivar, Associate Civil Engineer
City of San Jose

Louay Shamroukh, R&D Engineer
Simpson Strong-Tie

Ariv Wong, Project Manager
KSP Consulting Engineers

Corresponding

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Engineering Design Group Inc.

Associate

Chung-Soo Doo, Staff/Design Engineer
Structural Design Engineers

Anita Gupta, Structural Designer
Watry Design Group

Katherine Steinhardt, Engineer
Ove Arup + Partners

Industry

Mary Kerns, ISMIS/Seismic Prog. Mgr.
Enidine Incorporated

Student

Gokhan Gunan, Graduate Student
San Francisco State University

Jill Lindstrom, Graduate Student
San Jose State University

Chia-Wang Yeh, Graduate Student
Stanford University

The CUREE-Caltech Woodframe Project

by Kelly Cobeen

The CUREE-Caltech Woodframe Project, a combined research and implementation project to improve the seismic performance of woodframe buildings, is now approaching completion. The project is funded by FEMA through the California Governor's Office of Emergency Services, and has the objectives of advancing the engineering of woodframe buildings and improving the efficiency of their construction technology for targeted seismic performance levels.

Testing and analytical research for the project are now complete. The final research task to be completed was the shake table testing of a three-story tuck-under apartment building at the UC Berkeley Richmond Field Station. Background information and film clips of that testing are available on the CUREE web site at www.curee.org. The Woodframe Project testing and analysis has covered a broad range from full buildings to wall and diaphragm components to fasteners. Included are two-dimensional and a three-dimensional analysis programs developed specifically for the Woodframe Project. Available for download from www.structures.ucsd.edu/andre are eleven research Final Reports and seven research Draft Final Reports. For those preferring printed documents, three of these reports are currently available in published form from the CUREE office and others will be available in the near future. Completion of four other research reports is anticipated in the near future.

Also currently available from the CUREE office is a report entitled "Woodframe Project Case Studies" describing in detail the performance of sixteen buildings damaged during the Northridge earthquake. Coming soon will be a report containing statistical analysis of woodframe building damage in the Northridge earthquake based on building department records, and a report on loss estimation methodologies for woodframe construction.

The Codes and Standards Element continues to develop a draft report on recommendations for codes, standards, guidelines, design practice and construction practice. Draft Version C of this report is to be completed in March, replacing the Draft Version B that was used for the September 2001 workshop. In addition to responding to comments raised at the September workshop, Draft Version C includes new discussions of cripple wall testing, analytical studies of shear wall element reliability and of viscous dampers, observations regarding vertical distribution of deformation demand, and a proposed method for translating between results of different component testing protocols. The new draft report can be downloaded from the CUREE web site in a pdf format. Comments are welcome; please see the CUREE web site for instructions for submitting comments.

As results from the different research projects become available, a better understanding has been gained of how woodframe buildings perform in response to earthquake ground motions. An important aspect is the significant difference observed between the behavior of the elements designated as the structural system by the designer and the behavior of the complete building. Implications for modification of future design practice and identification of vulnerable existing buildings are being considered. Recognition of the differences in behavior also plays an important role in the development of performance based design methodologies for woodframe buildings.

The Woodframe Project is due to be completed by September 2002. A seminar series presenting results of the project is anticipated to start in the last quarter of 2002. One type of seminar the Woodframe Project will be conducting will be tailored specifically for practicing engineers. In California it would be ideal to conduct these seminars in collaboration with SEAOC Sections. Other seminar audiences with slightly different needs include architects, building officials, and the construction industry.

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Job Forum

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CRJ Associates, a Menlo Park A&E firm, is looking for CAD drafters with a minimum of 2 years of experience preparing structural drawings using Autocad 14 and 2000 . Our firm specializes in design of new commercial buildings, as well as evaluation and retrofitting of existing structures. Flexible office hours, excellent salary and benefits. For more information, please visit our web-site at www.crjarch.com

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Job Forum

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<http://www.crjarch.com>. Please e-mail résumés to Julie at hr@crjarch.com <mailto:hr@crjarch.com>, or fax to 650/324-0927.

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Plan Review Firm is seeking a Licensed Civil or Structural Engineer knowledgeable in 1997 UBC code requirements to perform structural plan review. Residential and commercial experience preferred. Part time or full time position. Flexible hours. Salary DOQ. Good communication skills necessary. Fax résumé to Kutzmann & Associates at 510/796-9422 or mail to 39355 California St., Suite 200, Fremont, CA 94538 or e-mail to kutz@pacbell.net.

Dean, College of Engineering, San Jose State University
San Jose State University, in the heart of California's Silicon Valley, is seeking a dean to provide entrepreneurial leadership to the College of Engineering. The Dean is expected to provide dynamic leadership in a comprehensive, culturally diverse metropolitan university. The College serves over 5000 students, with 80 full-time faculty members. The successful candidate will be entrepreneurial, have highly effective communication skills, a history of building partnerships with industry and other institutions, and experience either as an academic administrator or a corporate executive. In addition, the candidate will possess an international perspective and have a proven track record of external and internal resource acquisition. The full position announcement and qualifications is available on the SJSU Human Resources Website at http://www.sjsu.edu/depts/HR/opp.htm. Nominations can be made through the Office of the Provost at 408/924-2400 or bwhite@sjsu.edu.

TranSystems Corporation is seeking a licensed PE with at least 8 years of experience in structural design of buildings. Client oriented, strong project management and communication skills required. Experience in pre-engineered building foundations, seismic strengthening, tilt-up buildings, industrial and transportation facilities are desirable. Visit us at www.transystems.com. Please fax résumé to 510/835-9839. Contact Carliss if your have any questions. 510/835-2761.

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

Posting for Membership

Member SE
Stephen Chan, Building Plans Specialist
San Mateo County Building Department
Member
Freydoon Arbabi, Professional Engineer
Rinne Peterson Structural Engineers
Mark Aschheim
Marc Gerin, Senior Structural Engineer
Ben C. Gerwick, Inc.
Michael Hughes, Consulting Engineer
Madsen, Kneppers & Associates
Carl Kuo, R&D Engineer
Simpson Strong Tie
Lorraine Lin, Project Manager
Hinman Consulting Engineers
Hong Mei, Senior Bridge Engineer
DMJM + Harris
Maya Sneller, Professional Engineer
Rinne & Peterson
Associate
Martin Chandrawinata, Civil Engineer
PGH Wong Engineering
Ryan Lawton, Design Engineer
American Building Company
Student
Meghan Elliot, Graduate Student
UC Berkeley
Renee Elsdon, Graduate Student
UC Berkeley
Linda Stewart-Knight, Graduate Student
Santa Clara University

New Ad for CalQl8

Repeat Ad for
Computers and Structures

upcoming events

APR

2 **SEAONC Dinner Meeting**
The City Club

18 **Young Members Forum**
Social

27 **Rebuilding Together**

***** **Note: No Business Forum Meeting this month-- postponed until May**

Registration

Structural Engineers Association of Northern California
April 2nd SEAONC DINNER PROGRAM, CITY CLUB, SAN FRANCISCO

5:45 PM
General Assembly

6:30 PM
Dinner

7:30 PM
Program

Judging: Excellence in Engineering Awards

"Degenkolb Forum: The Search for the Perfect Seismic Solution"

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

BART:
Montgomery Street Exit
San Francisco

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

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____

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

Deadline for pre-registration: 12 noon, Friday, March 29, 2002
Dinner and program reservations are limited. Register early! No cancellations after 12 noon, Friday, March 29, 2002. *No-shows will be invoiced. Tickets not claimed by 6:45 p.m. on the night of the event are subject to being sold. Note: Individuals with outstanding monthly meeting balances are required to pay in advance for a meeting reservation and pay all outstanding monthly meeting invoices.*

COST:	PRE-REGISTERED	LATE REGISTRATION
SEAONC Member	❑ $32	❑ $37
Junior Mbr (34 and under)	❑ $28	❑ $33
Non-Member	❑ $35	❑ $40
Student	❑ $15	❑ $15