

August 5th Program

A Message from the President

# Mission Bay Development

**Tim Carey**  
**Catellus Urban Group**

By Jamison Curry

Our first program of the 2003-2004 season will focus on Mission Bay, a development that has radically changed San Francisco. Our speaker will be Tim Carey, Senior Vice President for Construction for Catellus Urban Development Group.

Mission Bay is a 303-acre, mixed-use urban development located south of the Financial District and next to Pacific Bell Park and extends south to 16<sup>th</sup> Street, in San Francisco. The development includes major projects for transportation, housing, retail, infrastructure, and public and private research facilities.

Mr. Carey will give us a status report for Mission Bay, including a brief history, what projects have been completed, and what remains to be built. He will talk a little about the financing of the development. Although the Bay Area economy has taken a bit of a dip recently, Mission Bay continues to be a bright spot in San Francisco's economy. Mr. Carey will speak about how the current economic situation has, and will, affect the development.

As Senior Vice President, Construction, for Catellus Urban Development Group, Mr. Carey oversees construction services including contract negotiation, procurement of planning and permit approvals, budgeting, estimating, programming, and selection and management of project consultants, including architects, engineers and contractors.

In his four years at Catellus, Mr. Carey, who



*Above: The intersection of Third and King Streets—only one part of the Mission Bay Development.*  
*Left: Tim Carey, Sr. VP, Catellus, speaker at August's event.*

splits his time between San Francisco and Los Angeles, has successfully completed a number of projects, including the 540,000 square foot Metropolitan Water District Headquarters Building, the \$300 million Gateway Project at Union Station and the \$50-million renovation of Dodger Stadium. Mr. Carey is currently overseeing construction of all the Group's projects including Mission Bay, Union Station and San Diego Place.

Mr. Carey has more than 18 years of experience in real estate development and construction management. Prior to joining Catellus, he was Vice President of the New Water Street Corporation in New York City where he directed the company's \$140 million capital improvement program including building management, operations and construction management.

Mr. Carey received a BA degree in Government from Harvard University and a Master of Business Administration degree from the Owen Graduate School of Management at Vanderbilt University.

On June 20th and 21st, SEAOC held a strategic planning meeting in Sacramento. We followed an outline developed in a similar session held a little more than two years ago. The intent was to develop a set of objectives to guide the organization in serving the needs of its membership in the coming years. Representatives from each of the four SEAOC regional associations participated in the session, which was facilitated by SEAOC Executive Director Lee Adler. I was joined in representing SEAONC by Vice President Simin Naaseh, Past President Jon Kiland and Steven Oh. Jim Malley was also involved, wearing his SEAOC President-elect hat.

In preparation for the meeting we were given the results of the previous strategic planning session, including our Mission Statement and specific objectives, goals and strategies. Each participant was given the opportunity to provide initial input on strengths, weaknesses, challenges and opportunities in a variety of areas such as organizational structure, programs and activities, membership development and retention, financial

*Continued on page 2*

## Meeting Notice

**Tuesday, August 5, 2003**

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, Aug 1, 2003**

**FAX: 415-764-4915**

*Continued from page 1*

planning and communications.

It was agreed to retain the mission statement from the current plan, which reads as follows: It is the mission of the Structural Engineers Association of California to advance the structural engineering profession, protect public safety, and serve the business and professional needs of the membership.

A set of nine objectives was developed, drawing on the previous plan and containing an infusion of new ideas. In general order of priority, they can be summarized as follows:

- Provide educational opportunities, including technical and professional development seminars and applications programs designed to meet member needs. Goals discussed in connection with this objective include the development of out-of-state seminars, mandatory continuing education and a new series of seismic design manuals and seminars associated with new seismic standards (ASCE 7).

- Develop a public relations program focused on enhancing the image of structural engineers in the eyes of the public. Goals include planning for SEAOC's 75th Anniversary (in 2004), preparing news releases and editorial pieces and improving our web site.

- Maintain a high level of involvement in NCSEA programs and activities (with a long-term interest in seeing NCSEA become the preeminent national structural engineering organization.) Goals include working with NCSEA on certification and being involved in NCSEA codes and standards development.

- Strengthen SEAOC's influence in the government relations arena. Goals include developing local district contacts ("all politics is local") and strengthening our communications with commissions and advisory committees.

- Conduct a membership development program aimed at adding value to members. Goals include forming a task force to evaluate and improve membership benefits, initiating programs to attract university students and web site enhancement.

- Influence codes and standards development at the state and national level. Goals include filling vacancies in key leadership positions with active SEAOC members and increasing the vitality of technical

committee work at the local level.

- Influence registration, licensing, accountability and certification. Goals include support for the NCSEA certification program and exploring options to extend to more building types the requirement for structural engineer involvement.

- Develop and maintain an organizational structure at the state and regional levels that provides maximum coordination and effectiveness of programs and activities. Goals include assessing and improving the effectiveness of SEAOC's committee structure, including the Structural Standards (Seismology) committee.

- Expand upon current program to improve management and business practices. This one ended up ninth although in the end most agreed that was not intended. Goals include working with CASE in developing model contract provisions affecting QA and utilizing the web site to display technical information such as convention papers.

The SEAOC Board is preparing the results of this two-day session for review and implementation. My sincere thanks to Simin, Jon and Steven for joining me in representing SEAONC in this important meeting. If any of these objectives and goals have triggered ideas that you would like to have considered by the SEAOC Board, please let me know and I will carry them forward.

—David Bonneville, President

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**Business Forum**

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## SEAONC Website Launches New Member Features

By Darrick B. Hom, Website Chair

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

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

# DON'T FORGET...



**to pay your 2003-04  
SEAONC Dues!**

Don't let your  
membership lapse!

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

### \$100 - \$51

Frank Linhart  
Thomas Adamo  
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Marco Venturino  
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### \$50 and Under

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Erwin Wollak  
Kenneth Wyatt  
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Raymond Lundgren  
Frank Valavanis  
Adam Nye

Make a contribution this year when  
renewing your membership and  
join this prestigious list!

### SEAONC/ UC Berkeley Extension Short Course SE Exam Review

## \$595

- FREE copy of *Structural Engineering License Review: Problems and Solutions* by Alan Williams.
- 6 Weeks (consecutive Saturdays, for 6 hours per day)
- Emphasizes tips and techniques rather than problem solving in class.
- Designed and taught by a group of younger SEAONC members who recently passed the SE Exam.

See Enclosed Registration Form  
for more information

### *Business Forum*

**Business Forum Meeting:  
Thursday, September 4<sup>th</sup>**

Business Forum is taking a break in August, but look for future announcements for exciting programs starting in September. Our next meeting is on September 4, 2003 from 12:00 to 1:30 p.m. at the City Club in San Francisco.

RSVP: seaonc@ix.netcom.com  
Indicate *Steak* or *Pasta* for luncheon.

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

## EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS ANNOUNCED FOR...



### SAN FRANCISCO'S NEW ASIAN ART MUSEUM



### KAISER PERMANENTE'S SANTA CLARA MEDICAL CENTER



### SEISMIC STRENGTHENING OF THE SAN JOSE POLICE BUILDING



### ADAPTING AN AIRPLANE HANGAR FOR MARIN COMMUNITY FOUNDATION OFFICES

*By Wes Starratt, PR Consultant*

The Structural Engineers Association of Northern California (SEAONC) announces the Year 2003 Excellence in Structural Engineering Awards for four San Francisco Bay Area projects. They are the transformation and seismic reinforcement of San Francisco's former main library into the new Asian Art Museum, providing a high-performance earthquake-resisting design for Kaiser Permanente's new Santa Clara Replacement Medical Center, the seismic strengthening of the San Jose Police Administration Building without compromising operations, and the adaptation of an airplane hangar at the former Hamilton Air Base to meet the

requirements of the new headquarters of the Marin Community Foundation.

For San Francisco's Asian Art Museum, the challenge was to protect one of the world's most magnificent collections of Asian art and one of San Francisco's greatest treasures from earthquake damage in its new home, the renovated building that formerly housed the city's main library. Built in 1917, the elegant Beaux-Arts building continues to be a key feature of the city's Civic Center. Elegant and beautiful, the old building was also brittle and highly vulnerable to earthquake damage. Thus, a key element in its renovation was the

seismic strengthening of the structure to safeguard the priceless art collection. A team of Bay Area structural engineering firms, headed by Forell/Elsesser Engineers, Inc. and comprising OLMM Consulting Engineers and Tennebaum-Manheim Engineers, was responsible for strengthening the building. Two means were used: The first was a system of base isolation bearings inserted between the building's columns and a reinforced foundation system to decouple the building from ground motion caused by earthquakes. The second was a series of reinforced concrete walls (so called

*Continued on page 5*

shear walls) constructed from the basement to the roof to provide bracing for the building. With this combination of base isolation bearings and concrete shear walls, the building and its priceless art collection will be protected from damage from great earthquakes of the type that destroyed much of San Francisco in 1906.

The new Kaiser Permanente Santa Clara Replacement Medical Center, sandwiched between two major fault systems, the San Andreas and the Hayward, and comprising several office and hospital buildings, required a high-performance earthquake-resisting structural design to withstand potentially strong seismic forces. The answer provided by the structural engineering firm, Ove Arup & Partners California, Ltd., was an innovative concept called an Unbonded Braced Frame system that can be compared to a giant, stiff automobile shock absorber. The system, which has been successfully employed in Japan, was introduced by Arup to California in 1999 and fully tested by the University of California/Berkeley last year.

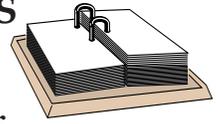
San Jose's Police Administration Building, a three-story cast-in-place reinforced concrete building required seismic upgrading, yet as an Essential Services building, it had to remain operational at all times. To minimize disruptions and keep construction work minimally invasive, OLM Consulting Engineers strengthened the older wing of the building by adding new

shear walls outside of the building and tying them back into the building with structural-steel collector members. The new shear walls were incorporated into an aesthetically pleasing trellis system. The project was completed within budget and on time without a single day of operations being compromised due to retrofit construction.

The Marin Community Foundation, an umbrella organization for many northern California charities, required creative structural engineering solutions to effectively adapt an airplane hangar at the former Hamilton Air Base in Novato as its new headquarters. As a member of the design team, the structural engineering firm, Jon Brody Consulting Engineers, designed a new curved indoor pedestrian bridge that hangs by steel tie rods from the existing steel trusses of the original airplane hangar. The use of translucent panels, together with exposed structural elements and a sleek bridge deck addressed the owner's concern for light and openness.



## CALENDAR OF EVENTS



**August 5**  
**Monthly Dinner Meeting - City Club, San Francisco**

**August 12**  
**ATC-20 Training Station 77 - Menlo Park**

**Sept 4**  
**Business Forum Luncheon**

### Posting for Membership

#### Life Member SE

Lawrence Daniels  
George Henderson  
John Paquette

#### Member SE

Brian Hartley  
*Principal, Structural Design Group Inc.*  
Lawrence Kiel  
*Owner, Lawrence W. Keil*

#### Member

Justin Capp  
*Staff Engineer, R.B. Welty & Associates*  
James Rahrlick  
*Senior Plans Review Engineer, Linhart Petersen Powers Associates*  
Joseph Sarmiento  
*Staff Engineer, Paradigm Structural Engineers, Inc.*  
Arash Zokaei  
*President, National Earthquake Engineers (NEQE)*

#### Associate

Ali Afrasiabi  
*Umerani Associates*  
Ruben Alvarez  
*Designer, Degenkolb Engineers*  
Ray Bushbaum  
*Regional Manager, Wicktek, Inc.*  
Meghan Elliot  
*Structural Designer, Jon Brody Consulting Engineers*

#### Student

Francis Yang  
*Graduate Student, UC Berkeley*

## DRAFTING

For

## Structural Engineers

**650-327-2670**

**Walton Bruce McMillan**

**746 Bryant Street**

**Palo Alto CA 94301**

**www.McMillanEngineers.com**

**DeSimone Consulting Engineers** has an immediate opening for a senior-level Project Manager with 5-7+ years experience in new design and seismic rehabilitation. The candidate must have excellent communication skills and a PE or SE (preferred). We offer competitive benefits and a great work environment. Please fax resume to Ron Polivka, 10 United Nations Plaza, Suite 410, San Francisco, CA 94102 (415/398-9834) or e-mail to rpolivka@de-simone.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

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

Structural Engineer **Guy Nordenson and Associates**, New York, seeks bright Engrs w/initiative, 5-8 yrs exp, MS req'd, for complex institutional projects worldwide. Exc benefits. Fax ltr w/salary reqs & resume to 212/766-9016 or e-mail to: mail@nordenson.com

**H. D. Rueb, Structural Engineer**, a medium size firm located in Pleasant Hill, has been providing structural engineering services for the past 33 years. We are currently seeking a self-motivated project engineer/manager with 5 years minimum experience who is looking for growth opportunity working on various building types. Applicants must have CE license with SE and MS degree preferred. Job requires independent person with good communication skills to do project management and client interface. Applicants must be team players, work to meet deadlines and have concrete, masonry, steel and wood design experience. We offer an extremely competitive salary and benefits package. Learn more about us, and the position, at our website at www.hdrse.com. Contact us at: 360 Civic Drive, Suite F, Pleasant Hill, CA 94523 or Fax to 925/825-9561 or e-mail us at dave@hdrse.com

Engineer sought to provide structural engineering services for Orinda based engineering firm. Requires Bachelor of Science in Civil Engineering and relevant industry experience. Send resumes to **Lloyd Gossen & Company**, 214 Moraga Way, Orinda CA 94563, or fax resume to 925-253-0778.

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

**PARADIGM Structural Engineers, Inc.** is growing. Opportunities for Project Engineers, Senior Project Engineers, and drafters are available. Come join a team of professionals dedicated to development, client satisfaction and upward mobility. If you are seeking a challenging position which fosters growth and allows you to develop to your full potential, come see us. www.paradigmse.com

**The US Dept. of State**, Overseas Buildings Operations, Design and Engineering Division has an opening for a Civil/Structural Engineer. Mandatory Requirement: Applicant must be a U.S. citizen. Failure to state this on original application will render you ineligible for consideration. Basic Require-

ments: BS Degree in Civil Engineering with emphasis on Structural Engineering; 5 years progressively responsible experience in structural & seismic analysis; design and review of complex buildings & foundations; skilled in seismic evaluation & strengthening of existing non-ductile concrete, steel & URM buildings; registration as a Professional Structural Engineer (CA license preferable) is highly desirable. Additionally, the successful candidate will travel overseas occasionally, should have excellent verbal and writing skills and will be required to obtain a State Department security clearance. Position is a 1-year renewable Personal Services Contract at the GS-13/14 equivalent level (\$69,054-106,086) located in Wash., DC area. Submit resume, OF-612 or SF-171 with cover letter via fax to: 703-875-5771. Applications Must Be Received By August 31, 2003. Please reference announcement number 2003-034.

**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.**

**DISPLAY ADS**

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

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*Repeat Ad for  
Computers and Structures*

AUG

- 5 Dinner Meeting  
City Club - San Francisco
- 12 ATC-20 Training  
Station 77 - Menlo Park

SEPT

- 4 Business Forum Luncheon
- 9 Dinner Meeting

# Registration

**Structural Engineers Association of Northern California**  
**August 5<sup>TH</sup> SEAONC DINNER PROGRAM, SAN FRANCISCO CITY CLUB**

**5:45 pm**  
**General Assembly**

**6:30 pm**  
**Dinner**

**7:30 pm**  
**Program**

**Location:**  
**The City Club**  
**155 Sansome St.**  
**10th Floor**  
**San Francisco**

**BART:**  
**Montgomery St.**  
**Station, Exit on**  
**Sansome Street,**  
**San Francisco**

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

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

**Deadline for pre-registration: 12 noon, Friday, August 1<sup>st</sup>, 2003**

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

Register early! Dinner and program reservations are limited. No cancellations after 12 noon, Friday, August 1<sup>st</sup>, 2003. No-shows will be invoiced. Tickets not claimed by 6:45 p.m. on the night of the event are subject to being sold. Note: Individuals with outstanding monthly meeting balances are required to pay in advance for a meeting reservation and pay all outstanding monthly meeting invoices.

<b>COST:</b>	PRE-REGISTERED	LATE REGISTERED (After Deadline)
SEAONC Member	<input type="checkbox"/> \$34	<input type="checkbox"/> \$39
Junior Mbr (29 and under)	<input type="checkbox"/> \$28	<input type="checkbox"/> \$33
Non-Member	<input type="checkbox"/> \$39	<input type="checkbox"/> \$44
Student	<input type="checkbox"/> \$15	<input type="checkbox"/> \$15