



STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA

NEWS

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A Message from the President

SEAONC presently includes 17 active committees that address technical, professional, educational and social aspects of our professional lives. These committees are the primary means through which our members interact. Have you ever attended a monthly dinner meeting and not seen many familiar faces? It may be because you haven't been active recently in one of our committees.

Committee activities provide an opportunity to work side by side with fellow members to achieve common goals. They offer the chance to increase our connectedness to our peers, to share the enthusiasm and fresh ideas of younger members and to listen to the advice and lessons of our senior members.

Our profession faces a myriad of challenges and the SEAONC committee structure has evolved over

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Meeting Notice

SEAONC Monthly Meeting

Tuesday, August 2nd, 2005

The City Club

155 Sansome Street, 10th Floor

San Francisco

Registration Deadline: 12:00 p.m. July 28th

(Details to the right, reg. form on back of news)

SEAONC Mini-Seminar

Tuesday, Aug. 9th, 2005

Bechtel

50 Beale Street, 2nd Floor Conference Rm

San Francisco

(Details on page 7)

SEAONC Summer Seminar

Wednesday, August 17th & 24th, 2005

PG&E Auditorium

245 Market Street

San Francisco

Registration Deadline: 12:00 p.m. Aug. 12th

(Details and reg. form included as an insert)

August 2nd San Francisco Program

The Burj Dubai Tower

*William Baker (Partner with Skidmore, Owings & Merrill LLP)
Lawrence Novak (Associate Partner with Skidmore, Owings & Merrill LLP)*

By Hamid Fatehi, Program Chair

The Burj Dubai tower, when completed, will be the world's tallest structure. The final height of the classic-style multi-use skyscraper is a "well-guarded secret". It will "comfortably" exceed the current record holder of 509 meter (1671 ft) tall Taipei 101.

Designers purposely shaped the structural concrete Burj Dubai - "Y" shape in plan - to "dramatically" reduce the wind forces on the tower, keeping the structure simple and foster constructability. The structural system could be described as a "buttressed" core. Each wing, with its own core and perimeter columns, buttresses the other via a six-sided central core, or hub. The result is a tower that is extremely stiff torsionally. SOM purposely aligned all the common central core elements to form a building with no structural transfers.

Each tier of the building steps back in a spiral stepping pattern up the building. This causes the tower's width to change at each setback. The advantage of the stepping and shaping is to "confuse the wind". The wind vortexes never get organized because at each new tier the wind encounters a different building shape.

The 3,000,000 square foot Tower and 2,000,000 square foot Podium structures are currently under construction and the project is scheduled for completion in 2008.



This exciting project will be presented by Bill Baker who is the partner in charge of Structural and Civil Engineering in the Chicago office of Skidmore, Owings & Merrill LLP (SOM). Mr. Baker has been involved in a variety of innovations in building systems, including low-rise and high-rise buildings, long span roofs and special structures. Larry Novak is a licensed structural engineer specializing in high-rise and unique special use structures. Larry is currently an Associate Partner with Skidmore, Owings & Merrill in Chicago. He has assisted in the search and rescue efforts at ground zero of the World Trade Center and the subsequent FEMA report.

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the years to help channel our efforts to address these challenges. Long standing committees such as Seismology and Professional Practices have evolved into committees that support the efforts of state-wide SEAOC committees as well as explore new areas of technical and professional improvement. Other committees, such as the Young Members Forum provide opportunities for younger members to share their experiences during the long process of apprenticeship that our profession requires.

As our committee chairs presently work on their plans for the year, I ask that each of you seriously consider a year of active committee involvement. There are a large array of options from which to choose. Aren't there some areas of your professional life that could use some fine tuning? The following is a brief listing of just some of our committees and the activities planned for this year:

Seismology & Structural Standards: This committee provides the opportunity to participate in the development of design guides and position papers that address issues such as the seismic design of steel storage racks, passive energy dissipation systems, micropiles, five story light frame construction, horizontal diaphragm forces and many other topics. The committee also responds to requests from the SEAOC Seismology Committee to clarify code issues. It provides an opportunity to learn and contribute to the technical improvement of our profession.

Continuing Education: This committee develops the program and arranges the speakers, venues and handouts for our Fall, Spring and Summer Seminars as well as Mini Seminars. Involvement on this committee provides contact with some of our leading professional authorities and the chance to put together programs of interest to the structural engineering community.

Disaster Emergency Services: This committee meets to discuss and improve our profession's readiness to respond to calls for engineering

safety inspections of damaged structures in the event of significant earthquakes or other natural disasters. The member sections of SEAOC have become the backbone of California's volunteer structural engineers that respond to support local communities in times of need.

Legislative: Over the year, this committee will seek to identify issues that arise in local municipal governments that could affect the public regarding earthquake safety and the practice of our profession. SEAONC involvement in the preparation of white papers, testimony and other types of technical support may be important committee activities.

Other committees include the *Business Forum, Bylaws, Construction Quality Assurance Existing Buildings, Professional Practices, Program, Public Affairs & Membership, and the Website Committee*. This year we have also added a *Sustainable Design Committee* to advocate the role of the structural engineer in the sustainable design process and to provide a forum to develop, disseminate and share ideas and information. We are currently looking into the formation of a committee to focus on the structural problems faced in the design and retrofitting of Transportation Structures.

Please give serious consideration to joining and becoming an active member of at least one of our committees. There are opportunities to learn from others, advocate your opinions and to share your experiences with other engineers. The efforts you make will pay rewards that can last a lifetime.

-Andrew Merovich, President



One Era Ends and a New One Begins...

By Michelle Craig, (DCI, President)

The following is the latest in an on-going series of articles related to construction and special inspection issues. In this article, Michelle Craig, president of the special inspection and testing firm DCI, discusses the recent developments related to the certification of special inspection and testing labs by building departments that are part of the Tri-Chapters of ICC. As she discusses, the disbanding of the Tri-Chapter's Special Inspection Committee has left many building departments searching for new ways to certify special inspectors, as the old qualification list previously published by the Special Inspection Committee is no longer valid since the committee no longer exists. Engineers with projects starting construction within the next several months should be aware of this situation as it may affect the special inspection performed on these projects. The Construction Quality Assurance Committee will continue to monitor the situation and keep the membership informed of any significant developments. - Tim Hart, SEAONC Construction Quality Assurance Committee Chair.

After more than 20 years of operation, the Tri-Chapter Special Inspection Committee (SIC) suspended operations in February 2005. This was prompted by a lawsuit filed against the East Bay, Peninsula and Monterey Bay Chapters of ICC by a firm that was unsuccessful in its application for SIC recognition. At the request of the Chapters, SIC and an ad hoc committee comprised of Chapter representatives began researching alternate programs to fill the void.

The International Accreditation Service (IAS), represented by Chuck Ramani, presented its new IBC Special Inspection Agency accreditation program, AC291, in January of this year. This program is just getting off the ground, with its first round of audits occurring in May in Las Vegas, Nevada. Feedback from participating agencies has been mixed, with many firms complaining of overly strict requirements and high fees.

The Division of the State Architect (DSA), represented by Eric France and Jeff Enzler, presented the LEA program in February. The jurisdictions present noted some concerns that the program did not deal sufficiently with special inspector experience, inspector certifications, and its use of a "different" code.

At a joint meeting held in March, local jurisdictions and CCTIA members met for additional dialogue. The concerns and needs of local building officials were discussed at length, in addition to the

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pros and cons of the IAS and DSA accreditations. From these comments, CCTIA developed an outline for a hybrid program, tentatively named "Local Jurisdiction/CCTIA Competency Advisory Program" (CAP), that was comprised of three parts. The first would require agency accreditation by IAS, DSA or other nationally recognized program acceptable to local jurisdictions. The second would require a signed and stamped statement from the agency's responsible engineer, similar to the one included in the old SIC program. The third and final part would require identification and certification of special inspection personnel in compliance with the CCTIA guidelines. The joint advisory committee overseeing the program would consist of six local jurisdiction representatives and three CCTIA industry reps.

All three proposals were presented for discussion and action at the annual Tri-Chapter meeting held June 3rd in Santa Cruz. With such an important issue on the agenda for discussion, it was no surprise the meeting was sold out in advance with more than eighty people in attendance. Keyvan Irannejad, Chief Building for the City of Milpitas, made a motion for the Tri-Chapters to adopt the IAS accreditation program as a sole source. After much debate and an amendment to allow eighteen months to put the program in place, the motion was defeated – to the intense relief of the industry firms present.

A second motion, presented by William Schock, Chief Building Official for the City of San Leandro, directed the SIC to bring a recommendation back to the Chapters within ninety days, and authorized the Chapters to fund the committee to obtain legal counsel to assist in its evaluations. This motion was amended to direct the SIC to include multiple accreditation programs in its recommendation, not a sole source accreditation. The second motion passed by a comfortable margin, thereby ending an era of the SIC Recognition Program, and opening the door for a new era for our industry.

CCTIA will continue to work with the SIC and the local ICC Chapters to find an acceptable alternative. It is clear that some form of accreditation will be a part of the new program. Also, the continuation of the CCTIA

experience and certification guidelines will carry a predominate role. What remains to be seen is how much impact we can continue to have on the restrictions and regulations being imposed on our industry. This new era will greatly impact the way each and every one of us conducts business in the Greater Bay Area!

Posting for Membership

Member SE

Ann Roche

Associate, Rutherford & Chekene

Shailesh Shaia

Engineering Supervisor II, Bechtel Corporation

Member

Mohsen Abdelfatah

Civil Transportation Engineer, Caltrans, CA Dept. of Transportation

Ana Akin

Senior Plan Check-Civil Engineer, LP2A

Issac Kim

Principal, Innovative Design and Engineering

David Leonard

Associate Principal, Anshen + Allen

Mei Kuen Liu

Senior Project Engineer, DeSimone Consulting Engineers

Griffith Morgan

Staff Engineer, Exponent Failure Analysis Assoc.

Thad Povey

Project Engineer, Murphy Burr Curry

Amarendra Prasad

Project Engineer, The Crosby Group

Chieh Wang

Associate Civil Engineer, East Bay Municipal

Associate

Josh Runnion

Assistant Engineer II, Stover Engineering

Krystyna Young

Field Engineer, Hilti

Student

Md. Masud Parvez

Graduate Student, Systech Didital

Affiliate

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Younger Member Forum
Timothy Graf
415/392-6952
TGr@degenkolb.com

DESIMONE Consulting Engineers, a leading national structural engineering firm with a staff of more than 140 employees, has immediate openings in our growing San Francisco and Las Vegas offices for engineers at all levels, from experienced Project Managers to Project Engineers. Presently, between these two offices alone, we are designing 12 high-rise buildings ranging between 16 and 56 stories. Ideal candidates should have strong technical, management and communications skills, with a PE license (preferred). We offer a competitive benefits package, coupled with a dynamic work environment. Additional opportunities are available in our New York, Miami and New Haven offices. Please send your resume via e-mail to rpolvka@de-simone.com.

NISHKIAN MENNINGER SEEKS EXPERIENCED REGISTERED ENGINEER with 5 or more years experience in various types of structures; office buildings, high-rises, schools, multiple-tenant residential & other commercial projects, garages and seismic rehab. Resume & salary requirements to: 1200 Folsom Street, San Francisco, CA 94103 or e-mail: Inishkian@nishkian.com.

Seeking Resumes for Structural Engineers: **Rinne & Peterson Structural Engineers (RPSE)** seeks and executes diverse, challenging projects. Are you customer-focused, detail-oriented, flexible, with great communication skills? Want growth opportunity, flexible hours, competitive salary, great benefits and superb working environment? Please fax cover letter and resume to HR, Attn: Sharon, 650.428.2861, or e-mail sharonberman@rpse.com.

Tipping Mar + Associates is an award winning structural engineering firm. We have an enthusiastic staff of 21 who work collaboratively. Our approach is innovative, and our projects are diverse. We are seeking a bright, creative, self-motivated individual for a challenging position as a structural engineer. Please send your resume with a cover letter to Tipping Mar + associates, 1906 Shattuck Ave, Berkeley, CA 94704, fax to 510-549-1912, or e-mail steve@tippingmar.com

Biggs Cardosa Associates has immediate openings in San Jose and San Francisco! Are you interested in a long-term career with an exciting and growth-oriented firm? In San Jose, we are looking for a Senior Engineer or Project Manager (min 10 years experience in building design and California SE required). In San Francisco, we are looking for a Staff Engineer or Project Engineer (min 5 years experience in building design and California PE required). Find out more about our firm at www.biggs-cardosa.com, and if you feel you would like to join our team, email your resume to Mahvash Harms, SE, at mharms@biggs-cardosa.com. EOE

Jacobs Civil Inc. a major nationwide engineering firm has an immediate opening for a Structural Engineer for its Walnut Creek, CA office. The successful applicant shall have a CE license in California and a BSCE and at least 5 years experience in facility projects, preparing plans and specs for construction. A MS degree in structural engineering is preferred. Experience in computer programs (SAP2000, ETABS, etc) for linear/nonlinear analysis is required and knowledge of Auto CADD is desirable. Strong written and verbal skills and the ability to work with peers and clients are required. Our office is conveniently located next to the BART Pleasant Hill Station. Jacobs is an Affirmative Action, EOE. Please email cover letter and resume to alta.st.clair@jacobs.com or fax to: 925/256-7999. Visit our website at www.Jacobs.com

Jon Brody Consulting Engineers is an award winning San Francisco firm with a reputation for design creativity and a high level of professional service. We work on a wide variety of project types, focusing on the integration of structural requirements with architectural design objectives. Committed engineers with strong design, analytical, and interpersonal skills and min. 5 years design experience in CA are encouraged to apply for Project Engineer and Project Manager positions on our team. Please E-mail resume/cover letter to inquiries@jonbrody.com, or mail to 1005 Sansome Street, Suite 240, San Francisco, CA, 94111.

The Project Engineer will take a lead role in developing and preparing documents for project designs. Project Engineer responsibilities include performing structural engineering work requiring use of conventional engineering practices, plans, investigations, surveys, and structures or equipment. The prospective candidate shall have knowledge of concrete design and have the ability to lead the assembly of contract documents. Experience in the design of post-tensioned concrete structures is desired. Computer skills (CADD included), written and oral communications skills are required. Must be able to work in a team environment. Minimum acceptable requirements: qualified candidate shall be a registered professional engineer (or have the ability to become registered within one year), possess a BSCE degree, and have a minimum of 5 years of experience. sanjay.pandya@walkerparking.com

The KPA Group is looking for Structural Engineers with min. 5 yrs building design exp. in CA for major projects at our Oakland or San Francisco office. Min. requirements: PE registration and MS degree. Send resume, cover letter to The KPA Group, 300 Frank H. Ogawa Plaza, # 50, Oakland, CA 94612 or by email to info@theKPAgroup.com

Watry Design, Inc. is looking for just the right individuals to join our highly skilled team of architects, engineers and parking consultants. Are you interested in forging new territory? Our firm is doing just that . . . We currently have openings for entry to mid-level structural designers who would like to work for clients such

as Pixar, Stanford, BART, Kaiser, IKEA and Marriott. Email resumes to jobs@watrydesign.com or fax 650.298.8151.

Senior Structural Project Manager / Senior Engineer **Moffatt & Nichol**, a leading marine and transportation firm, is seeking an engineer for their Seattle office. They need an engineer with 15-20 years experience, BS Civil/Structural, MS Structural, and a PE, SE preferred. Project experience must include waterfront structures. Bridge experience is highly desirable. This position requires excellent communication skills to include the ability to write proposals and make oral presentations. The successful candidate will be a technical expert with a personal desire to provide guidance and direction to junior staff. Respond to Sherry Hennes, Director of Human Resources, Moffatt & Nichol, 320 Golden Shore, Suite 300, Long Beach, CA 90802.

Nishkian & Associates, Inc. Seeks Structural Engineer: analyze loads to design structures and foundations. Apply to: 1200 Folsom Street, SF, CA 94103. Ref. job code LC1001, Attn: Levon Nishkian

Structural or Civil Engineer, license preferred, to lead structural design effort in wood frame construction for a residential architectural firm in Walnut Creek, California. Must have familiarity with AutoCAD and Enercalc software programs, have field observation (and hopefully construction experience) and be proficient at wood frame structural drawing and detailing. Familiarity with minor civil engineering, such as grading and drainage planning, is helpful. We offer the standard benefits along with 401k and profit sharing programs. Someone hired to be on-staff or hired as a professional consultant can fill this position. As a result, we are open to creative ways to fill this position. Please contact us by calling 925 287 0600 X101.

Degenkolb Engineers is looking for talented engineers to join our San Francisco team. As recognized leaders in seismic engineering, we offer a diverse, challenging mix of projects on new and existing structures. We offer an excellent salary and benefits package. Currently, we are looking for engineers with a M.S. in Structural Engineering with 0-3 years of experience. Experience in structural/seismic engineering analysis and design of buildings is a plus. Please see our website at www.degenkolb.com. EOE. To apply, send a narrative letter about yourself with your current resume to malley@degenkolb.com or to Degenkolb Engineers, Attn: James Malley, 225 Bush Street, Suite 1000, San Francisco, California 94104.

Are you an engineer with an extraordinary sense of business? If so, we may have just the position for you. **Degenkolb Engineers** is looking for a detail-minded, leader to serve as our Process Manager. This position is accountable for identifying and developing new operational processes, overseeing inter-group committees, and establishing and monitoring engineering-related processes and policies.

The right candidate is a licensed engineer, possesses an MS in structural engineering, and has exceptional communication skills. Five years of experience in the structural engineering industry, three years of leadership experience, and an SE license are desired.

If you're an engineer looking to become deeply involved in management, send a narrative letter about yourself with your current resume to recruit@degenkolb.com or to Degenkolb Engineers, Attn: HR, 225 Bush Street, Suite 1000, San Francisco, California 94104. For more information on our company, please see our website at www.degenkolb.com. EOE.

Eichleay Engineers Inc. is currently seeking two experienced Civil Structural Engineers to join our team based in Concord, California. Eichleay is a multi-discipline firm serving both industrial and facilities clients. These opportunities have career growth potential leading to project management or management positions. Candidates should possess excellent verbal and written skills for interfacing with our clients and others. Supervision experience is a plus. Candidates must be familiar with California building codes and IBC (International Building Codes). SE's are preferred. No relocation package is currently anticipated. All inquiries should be to Charlet Davis at davis@eichleay.com. Please submit your resumes in Word format. Please do not fax resumes.

Time for a change? **AT Merovich & Assoc** seeks SE's w/ excellent verbal & written skills, strong analytical background, & desire to assume a leadership role in the execution of complex & challenging projects. This is a chance to grow professionally & to create your own future in a collaborative, supportive environment two blocks from downtown Berkeley BART. Send your resume to 1950 Addison St, #205, Berkeley, CA 94704, attn: Connie.

PEOPLES ASSOCIATES STRUCTURAL ENGINEERS INC., a growing Structural Engineering consulting firm in the Bay Area, is looking for talented and energetic engineers to join our staff in the San Jose area. We offer a competitive salary, excellent benefits and a team-oriented atmosphere that encourages professional growth. BS required (MS preferred). Experience is a plus. Mail resume &

cover letter to 529 S. Main Street, Milpitas, CA 95035. Fax: (408) 957-9221. Email: mail@pase.com.
 com Check us out on the World Wide Web at www.pase.com

We are a small structural engineering firm in Burlingame. We are located just South of the Airport and work in a comfortable atmosphere with a friendly environment and a fantastic view of the Bay. The job consists of preparing structural calculations and drawings. We offer rewarding challenges, competitive salary, and a pension plan. Requirements are as follows: BS in Civil Engineering, possessing a background in Structural Engineering 2 to 5 years of engineering experience. High proficiency with AUTOCAD Timber engineering experience is a MUST. Please submit resume to mma@pacbell.net Or fax resume to 650-348-7119

LTK Associates, a structural engineering consulting firm in Los Altos is seeking resumes from engineers with a minimum of 5 years structural design experience. Please send resumes to ltk@ltkse.com, or fax to: (650) 967-5148.

PARADIGM Structural Engineers, Inc. is growing again. Wonderful opportunities for Staff Engineers, Project Engineers, Senior Project Engineers & Project Managers are available now. Come join a team of professionals dedicated to professional 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 at www.paradigmse.com. Send resumes with cover letters to Janna Hernandez by fax (415) 362-8945 or email (jhernandez@paradigmse.com).

BLUESTONE Engineering, Inc. is seeking Project Engineers for full time employment. Excellent opportunity for professional growth. Very close to BART in Walnut Creek. Applicants with a minimum of 3 years experience in structural design and PE license preferred. Email cover letter and resume to lfowler@bluestoneeng.com, or fax to 925.932.7063.

DASSE Design is looking for talented and creative Project and Senior Project structural

engineers to join us in our San Francisco and Oakland offices. Minimum qualifications are BSCE (MSCE preferred), PE or SE license and 5-25 years experience on a variety of challenging structures. DSA and OSHPD experience a plus. Position requires strong technical skills, excellent verbal/written abilities and a desire to grow in a collaborative, professional environment. DASSE works with award-winning architects on health care, civic, academic and commercial facilities, in both new construction and renovation. Our projects are challenging and diverse. Send resumes with cover letters to William Andrews by fax (415)243-9165 or e-mail (andrews@dasse.com). Learn more about our firm at www.dasse.com.

KPFF Consulting Engineers is seeking Project Engineers & Project Managers for full time employment. Applicants must be motivated and possess excellent written and verbal skills. KPFF offers our employees an environment that supports personal growth, education and training, and the freedom to pursue individual career goals. If you have at least 5 years of design experience, a PE license, an advanced degree in structural engineering, and an interest in Structural Design, we want to hear from you. Send cover letter and resume to KPFF 1160 Battery St., Suite 300, SF, CA 94111. EOE

OLMM is a smaller, but reputable, structural engineering firm with offices in Oakland and San Francisco. Our projects include the award-winning San Francisco Main Library, seismic upgrade of the historic Palace of Fine Arts, and Oakland Airport expansion. We have immediate opening for a SENIOR STRUCTURAL ENGINEER to lead major new design and seismic retrofit projects. Position requires MS in structural engineering, SE license, and 6 to 8 years of responsible experience in the analysis and design of building structures in wood, concrete, and steel. This is a key position with significant growth potential. We offer diverse and challenging projects, a flexible and collaborative working environment, and a generous compensation package including 401(k) with company matching, profit sharing and bonus. Please email resume to: sunil@olmm.com.

Holmes Culley is part of the Holmes Group – based in New Zealand, with a reputation for pushing the boundaries. Over 50 years the Holmes Group has been developing fresh ideas and promoting creative solutions in the building industry, in Australasia, Asia and now the US. Part of our philosophy is to reward responsible and broad-minded individuals with the freedom and encouragement to grow their careers in an environment where promotion is based on aptitude and commitment, not simply experience. Currently we have two openings in our San Francisco office, which has a balance of commercial projects, seismic and historic retrofit, and custom residential work. The first is for a Project Manager for residential projects. The ideal applicant would have a PE license, and 5 years plus design office experience, with

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an emphasis on managing multiple projects. The second is for a Senior Engineer for general structural design duties in commercial and retrofit work. The ideal applicant would have a PE license, but SE is desirable. Either position has long-term management and ownership prospects for the right people, who would be motivated and responsible, with good design and communication skills. We also have an immediate opening in New Zealand for an experienced senior bridge designer. The ideal person would have a PE license, SE preferable. If you would like to work in an open environment in a clean, green environment, this may be for you. Please FAX resumes to Kathleen Callan at (415) 693 1760 or Email to kcallan@holmesculley.com.

EERI/FEMA Graduate Fellowship Awarded

Troy Morgan, a Ph.D. candidate in Structural Engineering at the University of California, Berkeley, has been selected as the 2005-2006 NEHRP Graduate Fellow in Earthquake Hazard Reduction. The Earthquake Engineering Research Institute awards this fellowship each year in a cooperative program with the Federal Emergency Management Agency's National Earthquake Hazards Reduction Program. The award is given to foster the participation of capable individuals in furthering the goals and practice of earthquake hazard mitigation. The fellowship provides \$12,000 for a nine-month stipend and \$8,000 for tuition, fees, and research expenses.

Troy Morgan was chosen from a group of six applicants. The applications were reviewed by Kenneth Elwood, assistant professor of Structural Engineering at the University of British Columbia, Youssef Hashash, assistant professor of Geotechnical Engineering at the University of Illinois, and Michael Valley, a structural engineer with Magnusson Klemencic Associates in Seattle. The candidates were drawn from four universities in California, Michigan, and Washington. They represented the fields of structural and geotechnical engineering.

The focal point of Morgan's research is to apply and extend PEER's performance-based methodology to the design and evaluation of isolated structures over a broad range of performance criteria. He intends to carry out an experimental program to validate modeling of isolated structures where nonlinear behavior is expected in the superstructure, an important consideration for non-essential isolated buildings not covered at present by the building code. This research will have application internationally with the increasing interest in damage-resistant and economic loss-resistant seismic design.

According to Stephen Mahin, professor of Civil and Environmental Engineering at the University of California, Berkeley, Morgan's doctoral research could have "a major impact on the field of earthquake hazard reduction through innovative and effective use of seismic isolation and other innovative methods for response modification. The work currently underway at the Pacific Earthquake Engineering Center on advancing performance-based design concepts will provide a unique foundation for Troy to establish a new framework within which to explore new applications for seismic isolation and to develop improved (and simpler) design methods that will make seismic isolation more economic and versatile."

The objective of EERI is to reduce earthquake risk by advancing the science and practice of earthquake engineering, improving understanding of the impact of earthquakes on the physical, social, economic, political and cultural environment, and by advocating comprehensive and realistic measures for reducing the harmful effects of earthquakes.

The following are companies that have contributed to the SEAONC Centennial Fund, which acknowledges the 100th anniversary of the 1906 Great Earthquake in regards to the important work SEAONC's members do. The Centennial provides a unique opportunity for SEAONC to reach the public through awareness around seismic safety. Contributions to the Centennial Fund help make this possible. Thank you to our July contributors.

Rinne & Peterson

Simpson Gumpertz & Heger

Wiss, Janney, Elstner Associates

**September 2005
News deadline:
Wednesday, August
10th**

Submit your articles by
e-mail to:
SEAONC@ix.netcom.com

DISPLAY ADS

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2/3 Page	\$600/mo.
1/2 Page	\$480/mo.
1/3 Page	\$360/mo.
1/4 Page	\$270/mo.
1/6 Page	\$225/mo.

Inserts/Flyers

1 sided	\$1000/mo.
2 sided	\$1200/mo.

Rates are for finished camera-ready black and white ads or proofed picture files with embedded fonts. *Full payment is required at time of insertion order.* For advertising contract, size specifications, and special rates for running an ad for multiple months, contact the SEAONC Office at by e-mail at: seaonc@ix.netcom.com or phone at 415/974-5147.

SEAONC AUGUST 9th Mini-Seminar

Seismic Design of Gusset Plates
Presented by: Russell Berkowitz, Forell/Elssesser Engineers, Inc.

The mini-seminar will cover seismic design of gusset plates for braced frame structures.

- review of testing to date
- current gusset plate design requirements and their origins
- shortcomings of current design methods
- summary of further research required to accurately model and design gussets/ braces.

Date/Time:

Tuesday, August 9th
5:30 PM - 6:30 PM

Location:

Bechtel Offices
50 Beale Street
2nd Floor Conference Room
(between Market & Mission Streets)

Cost:

\$15 (payment collected at the door)
SEAONC accepts: cash, checks, Visa, AMEX, or Mastercard

Register:

Email: Tracy Coughlin:
tracy.coughlin@kpff-sf.com

Please register early, seating is limited.

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THE STRUCTURAL ENGINEERS' DANCE COMPANY PRESENTS

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AUG

2 SEAONC Monthly Meeting
City Club, San Francisco

9 SEAONC Mini-Seminar
Bechtel, San Francisco

17 & 24 SEAONC Summer Seminar
PG&E, San Francisco

SEAONC - August 2nd MONTHLY PROGRAM

Monthly Program 8/02

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

City Club

155 Sansome Street
10th Floor
San Francisco

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____

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

Registration Deadlines: Monthly Mtg: Noon, Tue. July 28, 2005

Register early, seating is limited. No cancellations after deadlines listed above. No-shows are still responsible for full attendance fee.

**Note: Payment is required by evening of either meeting.
We will no longer be able to invoice you or your company.**

Cost - Monthly Meeting

	Pre-Registration	Late Reg.
SEAONC	<input type="checkbox"/> \$39	<input type="checkbox"/> \$44
Junior Mbr.	<input type="checkbox"/> \$33	<input type="checkbox"/> \$38
Student	<input type="checkbox"/> \$15	<input type="checkbox"/> \$15
Non-Mbr	<input type="checkbox"/> \$44	<input type="checkbox"/> \$49

- Paying by check make payment to SEAONC.
- Paying online (monthly meeting only) go to:
http://www.seaonc.org/member/member_s/events/order_form.asp
- Paying by credit card provide the following:
(SEAONC Accepts VISA, MC, AMEX)

Credit Card#: _____

Expiration date: _____

Signature: _____