



Steel-Braced Frames: SCBF's & OCBF's Seminar Feb. 11

Feb. 11 8am – 4pm SEAOSC Macro Seminar:

Steel-Braced Frames: SCBF's and OCBF's

SEAOSC will hold a seminar entitled "Steel-Braced Frames: SCBF's and OCBF's from 8am to 4pm Saturday, Feb. 11 at The Grand Event Center in Long Beach.

Topics include "High-Strength Brace Connectors for Use in SCBF and OCBF" by Constantin Christopoulos; "AISC TR Higgins Paper: SCBF Gusset Plate Connection Design" by Charles Roeder, PhD, PE; and "Seismic Vulnerability of Older Braced Frames" by Dawn Lehman, PhD.

Registration begins at 7:30am. Fee includes continental breakfast, boxed lunch and seminar notes. See flyer at the end of this newsletter for abstracts and details.

President's Message

By Janah Risha, S.E.

Scholarship Night and Job Fair

The February SEAOSC meeting is dedicated to the students and scholarship awards. The Younger Members group of the association puts on the events and does a wonderful job. The scholarships are available to structural engineering students from Southern California universities. The faculty advisors recommend their best students and Younger Members group decides on who is most deserving of an award and the amount. Also, the dinner is free of charge to all students. Of course, this event wouldn't be possible without the generation donations and supports of our structural engineering firms, and we all thank you for that. The February meeting is also a job fair, whereby the firms that donate a \$1,000 or more get an exhibit table and can talk with the students and younger engineers for recruiting purposes. It is a unique opportunity to meet newly graduating engineers and to scout for new talent. The speaker for the February meeting is Hany

J. Farran, PhD, PE and the title of his presentation is "Long Span & Cable Stayed Bridges: State of the Art". Dr. Farran is a very dynamic speaker and I'm sure the evening will be very interesting. The program starts at 3:30 PM with the Job fair. This is a dinner meeting and it will be held at Luminarias.



New Associate Membership Levels

Speaking of the young, your Board of Directors is considering the introduction of various levels of membership within the Associate Member level. The purpose of this is to incentivize the new graduates to join the association, by reducing the initial rate of membership and gradually increasing the rate thereafter. The details are still being worked-out and please check the newsletter and the web site for additional information.

(Continued on Page 2)

L.A. Dinner Mtg.

Wednesday Feb. 1

Job Fair & Student Scholarship Night

Program: State of the Art Long-Span & Cable-Stayed Bridges

Speakers: Hany Farran, PhD

Location: Luminarias Restaurant, 3500 Ramona Dr., Monterey Park

Time: 3pm Job Fair
5:30pm Networking
6:30pm Dinner
7:30pm Program

Menu: Chicken

Cost: \$35 Students: Free
(See blue insert for reservation form and details.)

FREE Job Fair

3pm

Wednesday, Feb. 1

Don't Miss the Biggest Dinner Meeting of the Year!

Table of Contents:

Calendar	pg 3
Upcoming ACE Awards	pg 4
In Memoriam: John A. Martin	pg 5
SEAOSC Financial Report	pg 6
Flyers & Registration Forms	
Officers, Committee Chairs	Back

Visit our website:

www.seaosc.org

You can also follow us on:



President's Message *(Continued From Page 1)*



I am convinced that this is a great approach to make membership in our association more accessible to younger engineers. It is very critical that we remove any barriers to membership to improve the level of participation by younger members.

Mentoring Within the Profession by Seasoned Engineers

In keeping with the "Equal Time" doctrine, when mentioning younger engineers, it is only befitting to also mention seasoned engineers. Our association and profession owes quite a bit to the more experienced engineers with many years of practice. Whether be it Code development, or committee membership, or just counseling younger engineers, they have contributed to the advancement of Structural Engineering. A well-known American philosopher once wrote: "What

we have done for ourselves alone dies with us; What we have done for others and the world remains and is immortal." I think it is very befitting that this tradition of mentoring and counseling continues. So I encourage the senior members of our profession to remain involved with the association and to make contact with the younger members to share their experiences and wisdom. And what better opportunity to do just that, than by attending the February meeting?

From Experience

Many of us remember the insert we used to get in the newsletter. Blue in color, it provided an engineer the opportunity to share a lesson learned or a new development in any of the areas we tackle. I for one, looked forward to reading what was presented and on many occasions the issue came in handy and helped me address a question or a challenge that I was facing. We would like to revive the "From Experience" insert. If you have any subject that you would like to know more about, or if you have an experience that you can share with the rest of the members, please let us know or just email your idea or write-up to Don Gilbert at seaosc@seaosc.org.

Upcoming SEAOSC Activities

There are many interesting seminars and webinars coming-up. So please check the website regularly. One very interesting seminar will be an all-day presentation on braced frames. Professors Charles Roeder and Dawn Lehman from the University of Washington will present findings of their extensive research on gusset plate connections. They will present the summary and results of the braced frame test program and a balanced design procedure for gusset plate connections. From these tests, they have also developed guidelines for estimating the seismic performance of braced frames. In addition, Professor Constantin Christopoulos from the University of Toronto will present on the use of steel castings for enhanced seismic response of steel braced frames. These presentations will be very informative and I encourage all of you to attend.

I hope to see you all there.

Jan. 4 Lunch Meeting



Good networking, good presentation, good food, pleasant easily accessible surroundings -- all at the Jan. 4 SEAOSC lunch meeting at the Proud Bird Restaurant near LAX. Hope you didn't miss it! From left: SEAOSC Past President Jeff Crosier, SE, Miyamoto International; Alan Hanson, Industry Member, Simpson Strong Tie; Mark Worthge, SE, Esq., guest of speaker; and speaker Ramon Gilsanz, SE, Gilsanz, Muray Steficek.

Janak

SEAOSC Calendar



FEBRUARY

- 1 3 pm Job Fair Luminarias Restaurant, Monterey Park
- 6:30 pm LA Dinner/Student Night Luminarias Restaurant, Monterey Park
- 11 8 am Seminar: Braced Frames The Grand Event Center, Long Beach
- 22 12 pm March Newsletter Deadline

MARCH

- 7 Noon LA Lunch Proud Bird Restaurant, Los Angeles
- 1:30 pm Board of Directors Meeting Proud Bird Restaurant, Los Angeles
- 10 8 am Seminar: Foundations The Grand Event Center, Long Beach
- 14 5:30 pm Tri-Counties Dinner Fourpoints Sheraton Hotel, Ventura
- 21 12 pm May Newsletter Deadline
- 24 9 am SEAOC Board Meeting TBD, Los Angeles
- 31 8 am Seminar: Irregular Structures The Grand Event Center, Long Beach

Mark your calendar now or save this page. Don't miss your favorites!

Topics and dates subject to change — for the latest seminar details and registration go to www.seaosc.org

SEAOSC ANNUAL EVENTS

- Feb. 1:** Job Fair + Student Awards Night Dinner
- February:** YM Field Trip to UCSD Englekirk Center
- Apr. 30:** Deadline to Submit Excellence in Structural Engineering Posterboards
- June 6:** Excellence in Structural Engineering Awards Dinner
- Aug. 1:** Field Day
- Sept. 12-15:** SEAOC Convention
- Oct. 25:** Annual Shakeout Event

Information regarding these events can be found on the SEAOSC website: (www.SEAOSC.org)



Next SEAOSC Newsletter Deadline: Feb. 22 for April Newsletter

Seminar Registration How-To

Please go to www.seaosc.org for secure online registrations or use the enclosed registration flyers. Be sure to remember to log in to the website as a member to take advantage of SEAOSC's member benefit of member pricing. It is advised to register early to ensure a seat. Please note that confirmations will only be given to those people who register via the SEAOSC Website.



WELCOME, New Member!

Nachtmann, Edward; *Member SE;* Dewberry & Davis, LLC, Pasadena; edthefed@earthlink.net



SAVE THE DATE

ACE
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ACE MENTOR PROGRAM
ARCHITECTURE • CONSTRUCTION • ENGINEERING

ACE Spotlight Awards 2012
Los Angeles/Orange Counties
California Club - Los Angeles
February 23, 2012

Join us to recognize the firms and mentors that demonstrate an exemplary commitment to cultivating the next generation of designers and builders, and to support the annual ACE scholarship drive.

ACE Spotlight Awards 2012
California Club - Los Angeles
February 23, 2012

5:30 PM Reception/Silent Auction
6:30 PM Industry Awards

Architecture Firm of the Year
Construction Firm of the Year
Engineering Firm of the Year
Mentors of the Year
Faculty of the Year

For further details and sponsorship opportunities, visit www.acespotlight.org
Email: infoACELA@ACEmentorLA.org / Phone: (323) 302-9622

John A. Martin 1919 - 2011



John Alfred “Jack” Martin, 91, passed away Dec. 3, 2011, in Redondo Beach. Born in Spokane, WA in 1919, Jack used his analytical skills and intellect to shape the course of his life. He was one of the preeminent structural engineers in the western U.S. and founder of the Martin Associates Group of engineering companies, including the Los Angeles headquarters, John A. Martin & Associates, Inc. Jack was preceded in death by his wife, Effie “Nona” Martin in 1987.

Jack is survived by his eldest son and CEO of John A. Martin & Associates, John A. “Trailer” Martin, Jr. of Redondo Beach; daughter-in-law Patricia and grandchildren John A. “Trip” Martin, III, Michael Bauer and Margaret “Peggy” Martin; his son Randall Martin and granddaughter Julia Tiffany of Newport Beach; and his daughter Jamie Martin and grandsons Jack Otto, Brett West, and Reed West of Denver, CO.

Even as a young man, Jack put his analytical prowess to work “engineering” his future. In 1938, at the age of 19, he joined his father Stuart, a salesman in Oakland for a meeting with the baseball coach of U.C. Berkeley. His father had convinced the coach that Jack’s baseball talents would greatly benefit the school. Although college had not been in Jack’s plans, he was invited to play for the University and pursued a degree in engineering, the result of an aptitude for mathematics. He joined the U.S. Navy in 1941 and received his Bachelor of Science Degree in Civil Engineering from U.C. Berkeley in 1943. From 1943 to 1946 he completed Reserve Officer Training at Annapolis and served in the U.S. Navy on the destroyer USS Russell in the Pacific Ocean. He later served as an engineering officer on the carrier USS Antietam. After the war Jack returned to one of his favorite station layovers, Los Angeles, and went to work for Brandow & Johnson Structural Engineers. In 1953, he founded John A. Martin & Associates, a business enterprise that would ultimately become one of the world’s largest privately owned structural/civil engineering companies. Growth came quickly to John A. Martin & Associates and its affiliate offices, in part because of work initiated with casinos and hotels in Las Vegas, including the Fremont Hotel and Casino, the firm’s first commission. These steel, long span truss and concrete tower structures became a hallmark of the firm’s extensive capabilities.

Jack Martin proved himself repeatedly in the eyes of his clients and colleagues as an innovator, explorer and mentor. His natural interest in construction and tectonics, collaborative style, and fierce loyalty helped nurture relationships with private and public clients. From the downtown high-rise structures to the condominiums in the Wilshire-Westwood corridor, to the Los Angeles, Anaheim and Long Beach Convention Centers, Staples Center Arena and LAX business district, it is difficult to find a Los Angeles –area neighborhood without some building engineered by John A. Martin & Associates.

Over an active career of more than 50 years, Jack Martin touched the lives of countless people. His unique combination of intellect, tenacity and pragmatism brought invaluable lessons to the engineers, architects and contractors he worked with. He emphasized the importance of creative problem solving and not just using computers for the answers. In a 1998 interview Jack remarked, “I encourage young engineers to visualize and learn the details of what they are designing, and have a feeling for the size of what they are creating and connecting, before getting into the computer and performing calculations.” This philosophy remains, even today, at the core of the Martin organization’s work process.

The breadth of the Martin Group of firms’ work extends well beyond Southern California. Engineering offices affiliated with John A. Martin have taken root in 14 states and many continue in second and third generation leadership to this day. Additionally, employees from the various companies carry licenses for all 50 states and Guam, Puerto Rico, and Canada.

Jack also believed strongly in a culture of helping others. His generous contributions, both professionally and personally, have been recognized by numerous organizations including the Los Angeles Council of Christians and Jews, from whom he received the 1990 Humanitarian Award and the American Legion for his founding of several youth baseball leagues.

A private memorial service was held on New Year’s Day to scatter ashes in the Pacific Ocean. In lieu of flowers, memorial donations can be made in his name to The Make a Wish Foundation or the Salvation Army of Southern California.

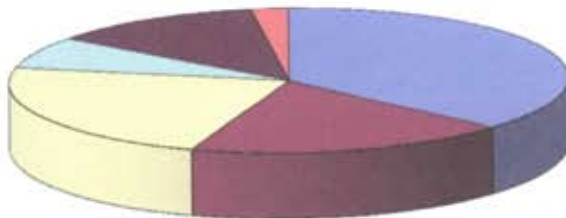
“There are those who imagine and those who create. When they come together it’s magic.”

SEAOSC FINANCIAL REPORT

July 1, 2010 – June 30, 2011

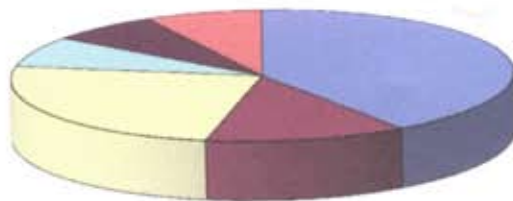
REVENUE

Revenue Category	Revenue	Percent
SEAOSC Dues	\$ 171,072	37%
SEAOC Dues	\$ 85,189	18%
Seminars & Programs	\$ 105,460	23%
Advertisements	\$ 32,245	7%
Meetings & Publications	\$ 56,763	12%
Donations/Interest	\$ 9,828	3%
Total Revenue =	\$ 460,557	100%



EXPENSE

Expense Category	Expense	Percent
Office	\$ 187,739	41%
SEAOC Dues	\$ 59,380	13%
Member Services	\$ 113,450	25%
Seminars	\$ 33,638	7%
Meetings & Publications	\$ 32,043	7%
Reserve Contribution	\$ 34,307	7%
Total Expenses =	\$ 460,557	100%



Is your SEAOSC contact information up-to- date?

As part of your membership, SEAOSC maintains a searchable online database so members can contact other members as well as keep their own information current with SEAOSC.

If it's been awhile since you last updated your online membership and company profile, please take the time to do so today. Additional business related information fields have been added since SEAOSC first put its database online in 2006.

Remember that the SEAOSC online database is how SEAOSC keeps in contact with you. If you don't keep your mailing information (especially email) current, you may not receive your newsletter or other important Association ballots or mailings. If you have questions, call Executive Director Don Gilbert at (562) 908-6131 or email SEAOSC@seaosc.org.



ABS Consulting

Our Irvine, California office is seeking Senior Project Engineer (Structural)

For a complete Position Description, and to submit your qualifications, please see our web page at www.ABS-Group.com or contact us at info@absconsulting.com

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SEAOSC Seminar —

Steel-Braced Frames: SCBF's & OCBF's

Saturday, Feb. 11, 2012 • 8am - 4pm
The Grand Event Center, Long Beach

High-Strength Brace Connectors for Use in SCBF and OCBF

By Constantin Christopoulos, Associate Professor of Civil Engineering, University of Toronto

Abstract: In this presentation, an overview of the advantages of cast steel elements over standard fabrication is first provided and examples of the use of castings in building and bridge construction are shown. An in-depth discussion on Special Concentrically Braced Frame (SCBF) systems, arguably the most popular seismic resistant steel system in North America, is presented with a focus on the intricacies of conventional SCBF connection design and how these can be significantly improved using new seismic-resistant cast steel connectors that have been developed and tested at the University of Toronto.

AISC TR Higgins Paper: SCBF Gusset Plate Connection Design

By Charles Roeder, PhD, PE, Professor of Civil Engineering, University of Washington

Abstract: A research study was completed to develop improved PBSD models for SCBF gusset plate connection design. More than 35 full scale SCBF systems were experimentally evaluated, and numerous nonlinear analyses were completed. A proposed design procedure, which balances desirable yield mechanisms in the brace and connection and restricts undesirable failure modes, was developed. This work is summarized, and gusset plate connection design recommendations are presented.

Seismic Vulnerability of Older Braced Frames

By Dawn Lehman, PhD, Associate Professor of Civil Engineering, University of Washington

Abstract: An experimental and analytical investigation was undertaken by researchers at the University of Washington. Using infrastructure built from the prior experimental study on SCBFs, a pilot test of an NCBF was conducted. The results demonstrated that NCBFs have a 100% probability of brace or connection fracture during a 10%-in-50 year event and a 10% probability of collapse, while the SCBFs have a 95% probability of brace buckling but no risk of brace fracture or collapse. During a 2% in 50 year event the SCBF had a 25% probability of brace fracture, but the NCBF had a 100% probability of fractures and a 35% probability of collapse. Taken as a whole, this limited research study shows that NCBFs potentially represent one of the largest, untouched seismic structural hazards in the US today.



SEAOSC Seminar: **Steel Braced Frames**

Saturday, Feb. 11, 2012

Registration: 7:30 am, Seminar: 8am - 4pm
(Includes continental breakfast, boxed lunch and seminar notes.)

The Grand Event Center, 4101 E. Willow St., Long Beach, CA 90815

(Circle the amount applicable to your registration.)

Cost	Before Feb. 5	On or After Feb. 5
SEA Member	\$295	\$345
Non-member	\$590	\$640

Advance registration required no later than Feb. 5

Non-Members are encouraged to attend at Member rate by completing a membership application at www.seaosc.org before Feb. 5. Attendees will receive four professional development credits.

❶ Register online at www.seaosc.org
(Members: Log in using Username and Password or Member Discount)

❷ Fax completed form with credit card information to (562) 692-3425.

❸ Mail Completed form with check made out to SEAOSC to 5360 Workman Mill Rd., Whittier, CA 90601.

❹ E-mail form with credit card information to seaosc@seaosc.org.

Note: Confirmations will be issued in response to online reservations only.

Name:

SEA Member Non-member

Phone:

Fax:

Credit Card Number:

Expiration:

Amount:

Pin number (last 3-4 digits on back of card):

Complete Billing address including zip code:

LEGIBLE Email address:

Repeat email address:

Essential References and Adopted Standards for the S.E.

BUILDING CODES FOR EXISTING AND HISTORIC BUILDINGS

Authored by structural expert Melvyn Green, S.E.

The only comprehensive book to examine how the IBC and IEBC can be applied to historic buildings. discusses code history and the reasoning behind specific regulations, and how codes are applied to existing buildings, along with issues such as occupancy and use, type of construction, safety and energy conservation. Additionally, the book includes building analysis worksheets illustrating how to develop a code approach for an individual building. An ideal resource for architects, engineers and preservation professionals. (264 pages)

HARD COVER #96175

LIST \$80.75 | **ICC/SEAOSC MEMBER \$72.75**



STRUCTURAL ANALYSIS AND DESIGN OF TALL BUILDINGS: STEEL AND COMPOSITE CONSTRUCTION

An easy-to-follow guide to theoretical, practical, and computational aspects of wind and earthquake engineering, this book addresses various aspects of wind and earthquake engineering, code provisions, and detailing techniques to make structures as earthquake-proof as possible. In addition, it also explains essential design and construction details using existing structures as examples. The author demonstrates how to use imperfect information, basic strength of material concepts, and conceptual thinking to estimate the answers to much larger and complex structural design problems. (690 pages)

HARD COVER #96225

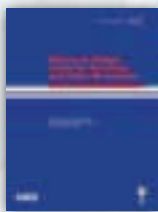
LIST \$144.95 | **ICC/SEAOSC MEMBER \$130.95**

TMS 402-11/ACI 530-11/ASCE 5-11: BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES AND RELATED COMMENTARIES

With significant updates from the 2008 edition, this edition is referenced by the 2012 IBC for the design and construction of structural masonry, veneer and glass unit masonry and has been updated to be consistent with ASCE 7-10. The new layout features a Code/Commentary and Specification/Commentary side-by-side format so that users can quickly review the commentary related to the Code and Specification provisions. (319 pages)

SOFT COVER #9026S11

LIST \$110 | **ICC/SEAOSC MEMBER \$99**



ASCE/SEI 7-10: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

Provides requirements for general structural design and includes means for determining dead, live, soil, flood, wind, snow, rain, atmospheric ice, and earthquake loads, and their combinations that are suitable for inclusion in building codes and other documents. Also included is Supplement No. 1, a detailed commentary containing explanatory and supplementary information to assist users of this Standard. (650 pages)

SOFT COVER #9002S10

LIST \$165 | **ICC/SEAOSC MEMBER \$148**



ACI 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY

Covers the materials, design and construction of structural concrete. The Code also covers the strength evaluation of existing concrete structures and is adopted by reference in the 2012 IBC. The Commentary provides background details or suggestions for application. (503 pages)

SOFT COVER #9021S11

LIST \$192.50 | **ICC/SEAOSC MEMBER \$154**

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Long Beach Wood Solutions Fair

FEBRUARY 29, 2012
Long Beach Convention Center

Register at
woodworks.org



WoodWorks provides free design and engineering support for non-residential and multi-family wood buildings, and Wood Solutions Fairs are its premier educational event. Combining a full day of seminars with a trade exposition, the Long Beach Fair will pack an informational punch for anyone interested in wood's exciting design possibilities.

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- The Bullitt Center – Meeting the Living Building Challenge
- Cross Laminated Timber in North America: Elkford Community Center
- Innovative Wood-based Systems for Schools
- Carbon Implications of Construction Material Selection

Attendance is free and a complimentary lunch will be provided. For information and to register, **visit woodworks.org**.



Credits: (top) 355 Hayden, Eric Owen Moss Architects, photo Tom Bonner Photography; (bottom) Marselle Condominium, PB Architects, photo Matt Todd



WoodWorks is an approved AIA provider.

WoodWorks is an initiative of the Wood Products Council, a cooperative venture of major North American wood associations.

2010-2011 SEAOSC Officers and Committee Chairs

Get involved! Members and interested parties are invited to join a SEAOSC committee.
Contact the chairperson for information on current projects and meeting times, dates and locations.

SEAOSC Officers & Board Members

	Name	Phone	Fax	Email
President	Janah Risha ^{1,2}	818-729-9777	818-729-9779	jrisha@risha.com
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	Mehran Pourzanjani	949-250-2911	949-250-2917	mehran@sbase.com

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