

# EQUILIBRIUM

Structural Engineers Association of Washington

February 2014

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**Peter Somers** 

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Tyler Kurz

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### **VISIT OUR WEBSITE:**

www.seaw.org

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## WA ACI Chapter Hosts Joint Meeting with SEAW Seattle Chapter

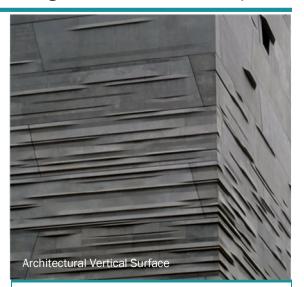
As hosts of our joint meeting this year, WA ACI has selected "Architectural Vertical Concrete Finishes-Getting Good Outcomes" as the featured topic of discussion. Tony Kiehle, Superintendent with Lease Crutcher Lewis and Nick Steinberg with CalPortland will lead the discussion on how we can manage methods, materials, and expectations to accomplish the best in architectural decorative concrete surface finishes.

Since 1939. Lease Crutcher Lewis has been a part of the region's tremendous growth and development. Local and noteworthy project history includes the original Sea-Tac Main Terminal, the new Amazon headquarters, and historic renovations such as Garfield High School. Lewis builds a diverse range of projects and has become one of Seattle's largest local contractors.

CalPortland Company is a major building materials and construction solutions provider to the Western United States and Canada with expertise in cement production, distribution, ready mix concrete, aggregate, asphalt, and other building materials. CalPortland is committed to the advancement of sustainable materials and renewable technologies and has been recognized by US EPA ENERGY STAR for nine consecutive years (2005-2013) for their commitment to energy efficiency.

The presentation will focus on strategies to obtain good architectural concrete finishes including means, methods, and materials. Our presentation will track the strategy on how the concrete project team prepared to exceed project finish expectations and their process to fine tune onsite outcomes and expectations.

Join us for a look at managing methods, materials, and expectations to accomplish the best in architectural decorative concrete surface finishes. It takes a team.



# **Meeting Information:**

Date: Wednesday, February 19, 2014

Place: Rock Bottom Restaurant & Brewery 1333 5th Avenue, Downtown Seattle

**Time:** 5:00 PM **Registration Opens** 

> 5:30 PM **Networking Reception** with No-Host Bar

6:30 PM Dinner Buffet 7:15 PM Program

Menu: Buffet-Style Dinner included in

Registration Fee

Price: \$45.00 Members

\$55.00 Non-Members

\$15.00 Students

Member rate is extended to ACI and SEA members only. No-shows and cancellations after Feb. 17 are not refundable.

Register online at www.washingtonconcrete.org/events

For more information: Contact: Nikki Blasé Phone: 206.878.1622

Email: nblase@washingtonconcrete.org

# From the Board: Let's Talk about Dues

By Ted Smith

After nine years without a dues increase, the Treasurer requested that the State and Seattle Chapter boards consider proposing a \$10 per year dues increase for each. We had been watching the organizations' account balances gradually dwindling and after postponing an increase for as long as seemed wise, decided it was time to request dues increases. Changing the dues requires chapter and state bylaws changes, by votes of the members. In the case of the state dues, ratification by all chapters was required. Traditionally the votes have been at monthly meetings attended by more active members and the votes generally have been unanimous. This time the boards decided to broaden participation by utilizing our new website's ability to handle online voting. The members still strongly approved the dues increase with about 85% voting in favor. Favorable voting for the state increase was even stronger in the Spokane, SC and SW chapters. SEAW exists to support its members and our practices. Thanks to all you members who support our organization by paying your dues, and even more to all of you who also participate

# Go Hawks! Super Bowl XLVIII Champs!



Ted and Barb Celebrate Malcolm Smith's interception and TD

in committees, seminars, boards, YMF, and all our other amazing volunteer efforts.

One of the most important functions of SEAW is providing opportunities for us to keep up-to-date on technical and professional issues. In 2013 SEAW presented two major seminars on seismic design and wind design. Don't miss the 2014 Spring Seminar about ASCE-41, or all the technical sessions at the NW Conference in Seattle this

September! The last downtown Seattle NW Conference in 2007 was incredible.

The Structural Engineers Foundation of Washington (SEFW), our 501(c)3 charitable corporation, presented its third annual free Fall Forum on highrise wood structures and is working on plans for the 2014 Forum. The foundation also maintains the funds for the SEAW scholarship program. Please consider a donation to the foundation to support scholarships and other activities, especially if your company pays your dues, or if you are a Life Member (like me) and no longer have to pay dues. While the foundation gets some support from other sources, the biggest supporters are structural engineers, structural engineering companies, and SEAW.

Best to you all for a prosperous 2014, Ted Smith, Treasurer

Ted Smith is a Life Member of SEAW, and a principal of Smith and Huston Inc. Ted can be reached at smith@smithhustoninc.com.



\$3,000

# **Structural Engineering Scholarships**

**SEAW** is offering \$3,000 scholarships to current college or university students majoring in structural engineering.

### Applicants must be:

- U.S. citizen and resident of Washington State
- Senior undergraduate or graduate student
- Enrolled in a program of study majoring in structural engineering
- Having a commitment to making a career in the practice of structural engineering

Scholarship application materials are posted on the web at <a href="www.seaw.org">www.seaw.org</a>, and can be obtained by e-mailing <a href="seaw@seaw.org">seaw@seaw.org</a> or by phoning 206/682-6026.

Application deadline for the 2014 award is February 28.

### **YMF Corner**

### By Tyler Kurz

Just starting out your career in structural engineering? Want to get connected with the professional community around you? The SEAW Younger Members Forum is a great way to network with other younger structural engineering professionals outside of your own firm.

All are encourage to attend the events which include monthly happy hours in Seattle and on the Eastside and various volunteer events throughout the year. While we encourage membership in the SEAW, it isn't required to be able to participate and get involved with the YMF.

### **Happy Hours**

Happy hours are a great place to meet other engineers outside of your own firm. It is a very relaxed setting where you have the opportunity to see what kinds of projects your peers are working on, to be able to talk about similar engineering problems you may be facing, or to just let off some steam with people who understand what it's like to work as an engineer. The happy hours are also a great way to become involved with the various technical committees within the SEAW. Often times committee chairs will attend the monthly happy hours. They are a wealth of knowledge and are usually looking for people to join their committees. Many young engineers believe that they are lacking the experience required to become involved in the committees when just the opposite is true. Most of the time they are looking for young energetic talent to contribute to the committees regardless of experience. They are also a fantastic way for younger engineers to get involved and continue to learn and grow within the profession. With all of these benefits, not to mention the free food, (Did I mention FREE FOOD?) it's hard to believe that there would be a good reason to not attend the monthly happy hours. Seattle happy hours are generally the second Tuesday of the month, with happy hours on the Eastside on the third Wednesday of the month. Reminders are sent out the YMF list serve, and are posted in the monthly equilibrium.

### **Volunteer Events**

Throughout the year the YMF will provide opportunities to give back to the community. One such activity is volunteering with Habitat for Humanity. At least once a year the YMF will get a group of structural engineers together to volunteer on one of the Habitat for Humanity build sites. This is a great opportunity to provide service to those in need, and is also a chance to see what you put on paper everyday up close in real life. Another annual volunteer event the YMF is involved with, is the Puget Sound Engineering Council annual engineering fair. The YMF operates a booth where we are able to explain to children and their parents what exactly it is that structural engineers do. In the past the kids have been engaged by building structures from marshmallows and sticks and have been able to submit them to earthquakes on a small shake table.

If you would like to get involved with the YMF or would like to find out more information about the up and coming happy hours, send an email to SEAWYMF@gmail.com.

## **Committee Corner**

### **Building Engineering Committee:**

### What changes would you make to the IBC?

SEAW is restarting the Building Engineering Committee (BEC). There are no ICC code change hearings this year so the NCSEA Code Advisory Committee, General Requirements Subcommittee is in planning mode to begin to develop code change proposals for the 2018 IBC. The SEAW Building Engineering Committee is the local counterpart of the General Requirements Subcommittee, and we have been asked to provide input to the national committee. We will have a meeting on March 5, 2014, to start this process. We will meet at the offices of Coughlin Porter Lundeen in Seattle at noon. There will be a convenient GoToMeeting option available for those willing individuals who are not able to attend in person.

Chris Duvall has agreed to chair the revitalized BEC, which will gather the hot button issues that surface, vet them, and forward some of the more feasible ones to the various subcommittees of the NCSEA Code Advisory Committees. There will be a dialogue between the SEAW committees and the NCSEA committees to determine the best way forward for your improvements.

Further down the road, the BEC will assist the NCSEA General Requirements Subcommittee in reviewing and establishing positions on the various code change proposals submitted by others outside this committee.

To get involved, please contact Chris Duvall: chrisd@cplinc.com or 206.343.0460.

Here is your chance to be heard. Come to the meeting, and help make the code a better one!

(A listing of Committees and Chairs can be found on Page 8)

# **Upcoming YMF Event**

Feb 11 Happy Hour, 5:00 PM PF Chang's, Seattle

### **YMF Leadership**

President:
Tyler Kurz
tkurz@dci-engineers.com
Vice President:
Kyle Holman
kholman@dci-engineers.com

Social Representative: Chelsea Snodgrass Snodgrass@jacobssf.com Past Chair: Jennifer Ahlport jahlport@gmail.com

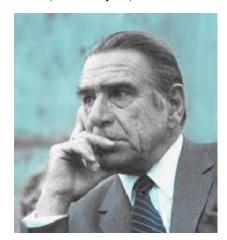
Outreach Representative:
Cal Bearman <u>cfbearman@gmail.com</u>

The Younger Member Forum provides networking and social opportunities to SEAW members 35 and under, as well as new non-member engineers and students. All SEAW members are welcome to participate in YMF functions.

# **In Memoriam**

### **Arvid Grant**

SEAW Southwest President 1966 b. 1920, d. January 18, 2014



Born in Latvia in 1920, Arvid Grant studied architecture and and engineering there, receiving an honorary doctorate from Riga Technical University. In 1951 he emigrated to the US with his family and settled in Olympia.

After working with the Western Bridge Construction firm in Seattle and the Washington State DOT, he established his engineering practice as Arvid Grant and Associates. His bridge engineering skills and self-taught surveying and HVAC/mechanical engineering abilities supported his early private practice with clients in southwest Washington.



His design of the Cle Elum River Bridge received honors from the National Steel Bridge Alliance in 1966.



In 1978, in collaboration with the German firm of Leonhardt and Andra, Arvid Grant designed the Pasco-Kennewick Bridge (shown here, later designated a historic landmark and known as Ed Hendler Bridge) over the Columbia River, the first cablestayed bridge in North America.

President Ronald Reagan honored the bridge with a Presidential Design Award.



As a founding member of SEAW Southwest, he served in 1966 as its second president. The Washington Society of Professional Engineers recognized him as Engineer of the Year in 1978.

His colleague David Goodyear notes, "Arvid believed that bridge engineering was a calling—one that required lifelong learning and dedication. For Arvid, bridge design was an avocation. He was an old-school engineer who lived for his work. He began each design with a pencil and a blank sheet of paper, first crafting a vision of of what the bridge design should be before the numbers constrained the image. ... He was equally proud of his applications with highstrength concrete and the creative bridge designs that dot the landscape of the Northwest."

**The SEAW Seattle Chapter** *Equilibrium* is published monthly from September through June and is available online at www.seaw.org. Articles, letters, and announcements are accepted by e-mail to <a href="mailto:seaw@seaw.org">seaw@seaw.org</a>.

Advertising rates (prepaid) Help Wanted/Job wanted, max 200 words, \$65; Display ads: Quarter page, \$115; Half Page, \$150; Full Page \$190. 10% discount for ads running two or more months. Deadline is the 20th of the month. Contact SEAW for an advertising order form.

Except where noted, opinions expressed in this newsletter reflect those of the author and do not reflect or represent the position of SEAW. Portions of this newsletter may be reproduced provided credit is given.

# **January Meeting Recap**

By Cale Ash

On January 28th, the Seattle Chapter held its annual student outreach event at the University of Washington's Waterfront Activities Center. This year's program featured presentations from three Seattle University senior design capstone projects followed by two University of Washington graduate student research presentations.

# Seattle University Senior Design Capstone Projects



<u>City of Vernonia, Wasterwater Treatment</u> Building Structural Design

Jane Johnson, Aleksey Koshman, Dylan LaRose, and Blake Rassilyer

Located northwest of Portland, the growing City of Vernonia is projecting a ten percent population increase by the end of the decade. To accommodate this growth, their wastewater treatment plant plans to add a new building for housing pump equipment. This senior design team will be assisting the city by performing structural design of the new building, which is currently planned to be a CMU bearing wall structure with metal deck and steel joist roof structure. Due to soft soils at the site, a mat foundation will be used and site preparation includes overexcavation of surface soils with subsequent surcharge loading to minimize future settlement. Design snow loads were obtained from the SEAO snow load analysis and the team also plans to explore sustainable design features such as straw bale wall construction and a green roof.

Replacement of Trout Creek Bridge 603

Daniel Carr, Khai Le, Trung Le, and Steve Liu

The existing Trout Creek bridge is located ten miles east of Granite Falls on the picturesque Mountain Loop Highway in Snohomish County. In prior assessment,

the county characterized the existing structure to be structurally deficient due to deterioration of the timber-framed substructure. This senior design team will be exploring several options for the replacement bridge including concrete box culvert, bottomless arch, and precast girder systems. Currently located within a 100-year flood plain, the team must perform cut and fill calculations to raise the elevation of the bride above the flood plain, while also incorporating scourresistant design features. The new bridge's location will be slightly adjusted to improve roadway alignment and sight distances while also allowing the existing bridge to remain in service during construction, the latter being a necessity for the small community served by the bridge crossing.

### Seismic Evaluation of Canal Substation

John Anderson, Randal Anton, Keisuke Massey, and Garrett Skelton

Seattle City Light's Canal Substation in Ballard was originally built in 1927 with major expansions in 1943. This control building serves much of the Ballard neighborhood including the Chittenden Locks and Swedish Hospital. This senior design team will be assisting SCL with an ASCE 31 evaluation of the existing structure and development of rehabilitation concepts. The building structural systems consist of reinforced concrete shear walls and URM walls with tall story heights in the 1943 addition. Due to the critical facilities served by the substation, the selected performance objective consists of Immediate Occupancy performance in the BSE-1 event and Life Safety in the BSE-2 event.

# University of Washington Research Presentations

<u>Seismic Testing of Connections for Concrete-Filled Tube Bridge Piers</u>

Max Stephens

With support from WSDOT and Caltrans, the University of Washington has a multiyear research program that supports the concept of rapid bridge construction using predominantly pre-cast concrete superstructure elements. PhD student Max Stephens provided an update on their latest results for the seismic performance of concrete-filled tubes and their connection to foundations and pre-cast cap beams. A CFT offers many advan-

tages relative to a conventionally-reinforced column. The section may be of smaller diameter while offering the same strength and reducing labor cost associated with rebar cage fabrication. Additionally, CFTs offer superior ductility as the steel tube provides effective confinement for the concrete fill, which in turn significantly delays the onset of local buckling in the tube section. With an eye towards code implementation, this project will develop design expressions for CFT elements and provide foundation and cap beam connection detailing requirements.

<u>Seismic Evaluation and Retrofit of Pre-1988 Braced Frames</u>

Dan Sloat

As part of a project funded by NEES and AISC, the University of Washington is characterizing the likely seismic performance of older non-seismic concentricallybraced frames (NCBFs) and also exploring possible strengthening options for such buildings. NCBFs were largely designed before 1988 when the capacity design approach became codified and are expected to exhibit a brittle failure mechanism at relatively low lateral drift levels. Based on a building survey of west -coast NCBF structures, master's student Dan Sloat identified that the most common brittle failure modes included net section fracture at the brace-gusset connection and Whitmore gusset yielding at force levels below the expected tensile vield of the brace section. Such failures occurred in greater than 50% of the surveyed buildings and subsequent specimen tests found that braced frames with these deficiencies have drift capacities of 0.5% at the onset of brittle failures. The next phase of the research project will investigate possible strengthening measures to improve the seismic performance of these older structures.

All presenters were well prepared and gave a glimpse of the bright potential of our profession's future generation. Many thanks to the students and their faculty advisors for their help in another successful program.

Cale Ash is an Associate Principal with Degenkolb Engineers. He is the immediate past president of the Seattle Chapter and the current president of the State Association.

Scan to find the technical expert nearest you, or email help@woodworks.org





# Free Design and Engineering Support for Wood Buildings

**TECHNICAL SUPPORT** – Free one-on-one project support from experts in wood design—email help@woodworks.org

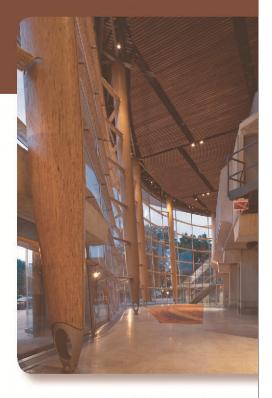
**ONLINE TRAINING** – Webinars, design examples, case studies

**WEB-BASED TOOLS** – CAD/REVIT details, calculators, span tables, product and design guides

**EDUCATIONAL EVENTS** – Wood Solutions Fairs, workshops, in-house presentations



WoodWorks is an initiative of the Wood Products Council



Photos: Mercer Court, University of Washington, Ankrom Moisan Architects, courtesy WG Clark Construction Arena Stage at the Mead Center for American Theater, Nic Lehoux, courtesy of Bing Thom Architects

# **Meetings, Seminars and Announcements**

### **Mark Your Calendar:**

# ATC-20/ATC-45 SAP Evaluator Class, Feb 12

The SEAW Disaster Preparedness and Response Committee will be offering an ATC-20/ATC-45 SAP Evaluator class on February 12 in Seattle. The all-day class will be held at the Union Square Boardroom at One Union Square, from 8:00 AM to 5:00 PM. Attendees will qualify for the Cal EMA Safety Assessment Program (SAP) Certification. Details and registration online at <a href="https://www.seaw.org">www.seaw.org</a>.

### **Preliminary Announcement:**

### ASCE/SEI 41-13 Seminar: Seismic Evaluation and Retrofit of Existing Buildings

This seminar details the new ASCE/SEI 41-13 standard, which is a combination of ASCE 31-03 and ASCE 41-06. The new standard provides an updated methodology for evaluating and retrofitting existing buildings for earthquakes and eliminates significant inconsistencies between the two previous standards. The evaluation and retrofit processes are combined, and a three-tiered process for seismic evaluation is provided which can be applied to a range of building performance levels.

This presentation will act as an introduction to the new standard and a primer on its use. Attendees will learn about the underlying philosophy and history of the ASCE 31 and 41 standards. Nationally recognized speakers and contributors will present the following topics:

- General Provisions and the Combined Document
- Tier 1 Structural Provisions
- Tier 2 Structural Provisions
- Soil Structure Interaction and Foundations
- Masonry & Concrete Provisions
- Base Isolation & Energy Dissipation
- Steel Provisions
- Wood and Cold-Formed Provisions

This seminar will qualify for (6) PDH. Lunch will be provided.

This seminar will be held late April, early May 2014 in Tri-Cities, Spokane and Seattle. Exact dates will be released soon. Please visit seaw.org for updates.

# Seattle Chapter Lunch & Learn, February 26

Seattle Chapter will present a lunchtime seminar on the topic **Structural Engineering after a 2500-Year Earthquake:** Lessons Learned While Working in Christchurch.

At press time, this event is sold out. Please email the SEAW office to be placed on a wait list. A second event will be scheduled if there's enough interest.

In 2011, SEAW member and past Seattle Chapter board member Lara Simmons, SE, moved to New Zealand to work as a lead engineer and project manager for Holmes Consulting Group. Lara led work at the Arts Centre, one of the most significant historic retrofit repair projects in Christchurch following the earthquakes.

At this presentation, Lara will share her professional and personal experiences, cover lessons learned while working in Christchurch following (and during) the Canterbury Earthquake Series, and initiate discussion with the engineering community.

The presentation will focus on what the engineering community might *not* be adequately prepared for. It will be divided into the following topics.

- The key details of the events: How big was it, what were the key failures, building performance level, and damage.
- The engineer's role in the postearthquake environment and how the city and that role evolved over time.
- Lessons learned regarding the publicengineering interface.
- What we can do to be better prepared.

### **Details:**

Wednesday, February 26, 2014 12:00 pm to 2:00 pm Westlake Tower, 4th Floor Conference Room, 1601 Fifth Avenue, Seattle Fee: \$15 (includes lunch) Continuing Education: 1.5 PDHs Online registration: www.seaw.org

# **Structural Masonry Design Seminar**

The Northwest Concrete Masonry Association will be conducting a full-day seminar focusing on the design of reinforced concrete masonry construction. Both working stress and strength design methods of the new 2012 IBC and 2011 MSJC codes will be covered.

The seminar will include the explanation of new code provisions and step-by-step design examples of masonry building elements by manual and automated methods. It is aimed at practicing engineers who want to learn how to design masonry in a practical and efficient manner. It will be presented by two professional engineers at each location. The seminar will consist of 7.5 hours of continuing education. Certificates of attendance will be issued.

Seminar dates and locations include:

- March 13, 2014, Spokane, WA
- March 31, 2014, Bellevue, WA
- June 9, 2014, Portland, OR

Additional information can be obtained from the Northwest Concrete Masonry Association at 425.697.5298 or www.nwcma.org.

### **PSEC Engineering Banquet:**

# Saturday, February 15<sup>th</sup>, 2014, 6PM-10PM

### Museum of Flight, Boeing Field, Seattle

Tickets: <a href="http://www.eventbrite.com/">http://www.eventbrite.com/</a>
<a href="e/2014-psec-engineering-awards-banquet">e/2014-psec-engineering-awards-banquet</a>
-tickets-9747305453

The 56th Annual Puget Sound Engineering Council (PSEC) Engineering Awards Banquet will be held Saturday, February 15th, 2014 at 6:00PM in the Skyline Room at the Museum of Flight at the King County International Airport (Boeing Field). PSEC invites you to join take advantage of this unique opportunity to celebrate the profession of engineering and honor the achievement of our colleagues.

Come early and enjoy the complimentary access to the museum's exhibits.

The evening's honors will include:

(Continued on page 8)

# **Meetings, Seminars and Announcements Cont.**

(Continued from Page 7)

- Academic Engineer of the Year— Professor Dorothy A. Reed, P.E., Ph.D. Nominated by the Structural Engineers Association of Washington (SEAW)
- Government Engineer of the Year— Richard A. Sage, P.E., CCM, M.ASCE Nominated by the American Society of Civil Engineers (ASCE)
- Young Engineer-of-the-Year—Courtney Davis, P.E. Nominated by the American Society of Civil Engineers (ASCE)

 Professional Engineer of the Year— Robert F. Mast, P.E., S.E. Nominated by the American Society of Civil Engineers (ASCE)

### SEAOC Offers Structural Seismic Design Manual for 2012 IBC

The Structural Engineers Association of California (SEAOC), in partnership with the International Code Council (ICC), has published a five-volume Structural

Seismic Design Manual updated to the 2012 International Building Code (IBC) and referenced standards. The manual provides a step-by-step approach to applying structural provisions and includes practical examples covering major systems such wood, masonry, concrete, and steel. The volumes can be ordered separately or as a set via the ICC website at <a href="http://shop.iccsafe.org/2012-ssdm-complete-collection-with-volumes-1-5.html">http://shop.iccsafe.org/2012-ssdm-complete-collection-with-volumes-1-5.html</a>

# **Employment Opportunties**

### **Structural Project Engineer**

KPFF Portland is looking for motivated structural engineers interested in opportunity for growth. As a Structural Project Engineer, you will work individually and collaboratively in the design - construction process for some of the most challenging projects in the Pacific Northwest, as well as nationally and overseas. You will work closely with talented engineers, BIM / CAD technicians, architects, project managers, contractors and client teams.

Our current projects include:

- Airports
- Arenas + Stadiums
- · Long-Span Structures
- Bridges
- Government Facilities + Embassies
- Commercial Developments
- High-Rise Structures
- Mixed-Use Developments
- Corporate Campuses
- Healthcare Facilities
- Education Facilities (K-12 + Higher Ed)
- Museum + Convention Centers

### **Qualifications**

The preferred candidate will have:

- 3+ years of experience in structural engineering
- PE and MS / MEng engineering degrees
- Experience with Revit Structure
- Strong verbal and written communication skills
- Creative, proactive, and detail-oriented individual
- Outgoing individuals who thrive when working directly with architects, contractors and other engineers

### Apply

KPFF would like to hear from you. Please submit a cover letter and resume to the

Portland office Career Opportunities listing via our website or: <a href="CLICK HERE">CLICK HERE</a> \*

KPFF is an equal opportunity employer.

Location: Portland, OR

www.kpff.com www.traveloregon.com http://ch.tbe.taleo.net/CH10/ats/ careers/requisition.jsp? org=KPFF 2&cws=51&rid=73

### **Structural Engineer**

MLA Engineering, pilc provides structural engineering design and consulting services for local, regional and national projects. We specialize in the design of buildings and the seismic evaluation and improvements of existing structures.

MLA has an engineering position available that is suited for a candidate who has 5 to 15 years of design experience and who is competent in designing with all major construction materials. Individuals who are motivated to use their technical, organizational, and communication skills and who work well with a small group of professionals will welcome this opportunity. Our work environment encourages creativity, teamwork, and growth. A master's degree is highly desired. Interested individuals please contact Michael Leonard at email: mleonard@mlaengineering.com or write to the address provided below.

MLA Engineering, pllc 1424 Fourth Ave, Suite 815 Seattle, WA 98101

### **SEAW Committee Chairs**

**Building Engineering Code Advisory Committee Liaison Task Group** Disaster Prep/Response **Earthquake Engineering Education Existing Buildings** Legislative **Professional Practices Public Information Scholarship Snow Load Engineering** Strategic Plan Monitor Sustainability **Technology** Western Council Wind Engineering

Liaisons/Representatives:

**PSEC** 

NCSEA BSSC SEAW/WABO Structural Engineers Foundation WA Seismic Safety Committee

John Hooper Tom Corcoran Joyce Lem Andy Taylor Ardel Jala Bryan Zagers Tim Nordstrom John Tawresey Darrell Staaleson David Peden John Tate Jill Shuttleworth Adam Slivers Lynnell Brunswig Ed Huston Scott Douglas

Chris Duvall

Peter Opsahl Chun Lau Tom Xia Charlie Griffes Howard Burton Stacy Bartoletti

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### STRUCTURAL ENGINEERS ASSOCIATION of WASHINGTON • Seattle Chapter

PO Box 44 • Olympia WA 98507 • 206/682-6026 • www.seaw.org

### **Seattle Chapter Committees & Chairs**

House/Program Refresher Course Newsletter Presentations/Awards Engineer of the Year Committee Liaison Seattle Users of BIM Structural

Tom Corcoran Mark Moorleghen Lynnell Brunswig **Peter Somers** Ed Huston Tom Corcoran Tyler Kurz Open Peter Opsahl

### **Statewide Committees & Chairs**

John Hooper Code Advisory Earthquake Engineering **Building Engineering** Chris Duvall **Existing Buildings** Bryan Zagers **Professional Practices** John Tawresev Wind Engineering Scott Douglas Scholarship David Peden Legislation Tim Nordstrom

Education Finance & Auditing Disaster Prep/Response **Public Information** Sustainability Snow Load **SEAW Historian** 

Ardel Jala Ted Smith Joyce Lem Darrell Staaleson Adam Slivers John Tate Don Northey

For Committee contact information, visit www.seaw.org and click the Committee page

### **SEAW Calendar**

### FEBRUARY, 2014

**PSEC** Representative

Tuesday 4th Refresher Course Begins

Tues-Thurs eves through March 13th

8th PSEC Engineers Fair, 10 AM-4 PM Saturday

Museum of Flight, Boeing Field

YMF Happy Hour 5:00 PM Tuesday 11th

P.F. Chang's, Seattle

Wed ATC-20/45 Training & SAP Evaluator

> Certification, One Union Square Board Room 8:00 AM-5:00PM

PSEC Engineers Banquet 6 PM-10PM Saturday 15th

Museum of Flight

Wed 19th Seattle Chapter Board meeting

> SEAW/ACI meeting hosted by ACI Rock Bottom Restaurant & Brewery

20th March Newsletter deadline Thursday

Tuesday 26th Seattle Chapter Lunch & Learn

Lara Simmons presents lessons

from Christchurch

### **Seattle Chapter Membership Changes**

David Cotton-Granted Life Membership

Robert Sinclair-resigned Justin Bettner-resigned Jeff Brink-resigned Jordan Hague-resigned Mans Thurfjell-resigned Scott Seeman-resigned Gregg Goedeke-resigned

# Membership

Andy Taylor

### **Chapter Membership Postings**

In accordance with SEAW bylaws, membership applications are vetted by the Executive Director, granted probationary status by the chapter board, and posted for membership comment. Membership is considered accepted 30 days after posting if current year dues are paid and no member objections have been received.

#### Avnash Banwait

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