Conference Schedule

Wednesday, September 17, 2014
The SEAW Hospitality Suite will be open for early registration.

Thursday, September 18, 2014
9:00 AM—11:00 AM NW Conf. Board Breakfast Meeting
11:00 AM—1:00 PM Registration
11:00 AM—6:00 PM Vendor Exhibits
11:30 AM—1:00 PM Lunch with Speaker David B. Williams
1:00 PM—4:30 PM Technical Session I
4:30 PM—5:30 PM Structural Engineers Foundation Reception
6:00 PM—7:00 PM SEFW Event—Bridges to Prosperity

Friday, September 19, 2014
8:00 AM—11:30 AM Technical Session II
8:00 AM—5:00 PM Vendor Exhibits
12:00 PM—1:00 PM Lunch – with Speaker Diane Sugimura, DPD
1:00 PM—4:30 PM Technical Session III
6:00 PM—9:00 PM Islander Dinner Cruise (Families welcome)

Saturday, September 20, 2014
9:00 AM—12:00 PM SEAW State Board Breakfast Meeting
9:00 AM—11:00 AM Free Walking Tour: Preserving and Protecting Historic Buildings in Seattle

Technical Sessions

Technical Session I
- Welcome and Introduction
- Post-Earthquake Jacking and Realignment of the “El Parque-Cuerpo 3” Building, Santiago, Chile
  - John Sherstobitoff, Ausenco, SEABC
- The Historical Development of the Bearing Wall Skyscraper—The Pacific Northwest’s Role
  - Tyler Sprague, University of Washington
- Cold-Formed Steel—History, Innovation, and Design
  - Jon-Paul Cardin, SCAFCO, SEAW Spokane

Technical Session II
- Seismic Performance of Reinforced Masonry Shear Walls—from Research to Practice
  - Benson Shing, NW Concrete Masonry Association
- Overview of ASCE 7-10/7-16 Wind Provisions
  - Don Scott, PCS Structural Solutions, SEAW Southwest
- Overview of the 2015 NEHRP and ASCE 7-16 Seismic Provisions
  - John Hooper, Magnusson Klemencic Associates, SEAW Seattle

Technical Session III
- Introduction to ACI 562—Repair and Rehabilitation of Existing Concrete Structures
  - Chuck Larosche, WJE Associates
- Structural Engineering after a 2500-Year Earthquake: Lessons from Christchurch
  - Lara Simmons, LRS Engineering, SEAW Seattle
- Engineering for Resilience
  - David Bonowitz, SE

Register Online Today at www.seaw.org

There will be no September Seattle Chapter Dinner meeting due to the Northwest Conference.
Can’t make it to the Conference? Come to the SEFW Fall Forum on September 18th!
From the Board: Communication is the Connection

-by Tom Corcoran

I was having such a difficult time writing this message from the board I couldn’t bring myself to sit down and really focus on what I wanted to say. I found myself fighting a sense of dread, and of course it’s the last minute, the 23rd hour, and here I was: fingers on the keyboard. I realized that my difficulty in writing this message is not that I have nothing to say, it’s that this message somehow officially says summer is coming to a close. It’s like back-to-school for engineers.

So, it is with that confession that I wish you a bittersweet “welcome back” from one of the most beautiful Seattle summers I can recall. Although I was not raised in Seattle (South Dakota is my home state), I have spent the last 25 years here; the majority of my professional life as an engineer. I can’t imagine a more exciting city to practice my profession, surrounded by some of the most innovative and inspiring engineers in the country.

I am humbled and honored by the opportunity to serve as this year’s SEAW Seattle Chapter president. As a member of SEAW I have experienced firsthand the collaborative relationships formed through this organization. I have made many friends and business contacts, and have had the opportunity to be part of young engineers’ discovery and growth. As an SEAW member, I have been touched by young engineers and their need for good mentors, and have worked to help them understand their future paths as SEAW members. I believe SEAW is a staple in a structural engineer’s career.

It is interesting to me that the members of the young structural engineering community want to understand their future in SEAW, while in reality, they are the future of SEAW. It is necessary as an organization to provide a map and support for our young future leaders, and I have some ideas to further this goal.

For example, I would like to see the Young Members Forum (YMF) become more involved with some of the everyday SEAW functions, like joining and participating in our State and local committees. I have asked the YMF to forward an invitation to the Committee chairs with a list of its Happy Hours dates. My goal is to have a committee chair select a date, attend the Happy Hour, and provide professional mentoring and share his/her own stories with the group.

Also, I plan to overhaul the newsletter production/delivery system to increase readership. We live in a society in which the incredible growth in technology and social media provides everyone with immediate access to information. We need to embrace new technologies and new avenues of communication. To make our newsletter more user-friendly and considerate of our members’ busy schedules, one suggestion I am considering is to distribute a list of links to the articles contained in the newsletter. Each link would have a brief overview so the reader can easily determine which articles are of interest to him or her.

I want to invite our committees to post to our SEAW Facebook page to communicate to everyone the great work they are doing. Again, this is about embracing and using new technologies to keep our members informed. It’s easy to write just a few lines and post a photo; maybe ask a member from the YMF to post for you once to show you how it’s done. Who says you can’t teach an old dog new tricks?

Speaking of teaching an old dog new tricks, I want to share an amazing learning opportunity coming up on September 18th. The SEA Northwest conference provides an opportunity to listen and learn from experts in their fields. Two days of technical sessions from which to choose means that certainly something of interest exists for each of you. But if, by chance, you consider yourself educated “enough,” then bring your family to the luncheon, or the cruise, or the SEFW Bridges to Prosperity Forum, or all three. What a great opportunity to network with friends and colleagues. I hope to see you there.

Finally, I invite each and every one of you to attend our monthly dinner meetings. This is another opportunity to get to know your colleagues and learn about something new. We have a great group of members participating in the organization, we have some interesting speakers planned, and the menus look pretty good, too.

I began this message with a confession that I was having difficulty changing gears, yet I must say that after sharing some of my passions with you, I’m pretty excited about getting started. If one word sums up my goal for this next year as your president, it is “communication.” I have an open-door policy as your new SEAW Seattle Chapter President. I want to hear your ideas, your concerns, and your needs. Thank you again for the opportunity to serve as your president.

Tom Corcoran is a Principal-in-Charge of Structural Engineering at Integrus Architecture. Tom has been a member of SEAW since 1993. In addition to serving as Chapter President, Tom is a Trustee on the SEAW State Board, has chaired the Committee Liaison Task Group, and is a staunch advocate for the Younger Member Forum.

Structural Engineers Foundation

Annual Fall Forum

Please join us on Thursday, September 18, 2014 at the Grand Hyatt Seattle for

Bridges To Prosperity

with Avery Bang and Brooke Shore

Networking Reception

($25.00) 4:30–5:30 PM
Lecture (Free) 6:00–7:00 PM

Registration Required. Register online at www.seaw.org
SEAW Younger Member Forum

-By Eric Pope

As the summer comes to an end there is a new YMF Leadership group taking over. I would like to take this time to introduce the incoming leadership group as over the year we will be writing the monthly YMF corner articles as well as planning multiple activities for the younger members to participate in. First up, we are holding a picnic Sunday September 28 at Gasworks Park and in addition we will be organizing events which include Happy Hours, habitat for humanity outings, career fairs. I encourage all young engineers to attend the picnic, introduce themselves, and ask how they can participate in more of the upcoming activities.

President: Eric Pope
DCI Engineers
Eric received both his Bachelor’s and Master’s degrees from Washington State University. Since the beginning of his career, Eric has been involved with the SEAW YMF. He has served as Outreach Representative and has stayed involved by attending dinner meetings, committee meetings, and various volunteer events. These experiences have helped to prepare him for the duties of YMF President and he is excited to expand his role in the SEAW. Eric appreciates the opportunities that the YMF provides to connect students and young engineers with other professionals in the structural engineering community. He would like to give back to the organization that helped him build professional relationships and grow his career by helping others to do the same.

Vice President: Tyler Winkley
DCI Engineers
Tyler graduated from the University of Washington with both his Bachelor’s and Master’s degrees. Whether it’s attending dinner meetings, YMF social events, or community service opportunities Tyler has been involved in the YMF in the past and is looking forward to playing a more integral role in the engineering community by participating in the SEAW YMF Leadership. As a member of SEAW, the opportunities that the YMF provides have helped Tyler’s growth as an engineer immensely, both personally and professionally. As Vice President, Tyler will continue providing young engineers and students the same opportunities to begin developing their careers, as well as any additional avenues that members could benefit from.

Outreach Representative: Natalie Aguilar-Carranza
Integrate Design Engineers
Natalie graduated from the University of California, Berkeley. One of the experiences Natalie enjoyed the most as a college student was to visit different engineering companies and listen to presentations about the exciting projects all these professional engineers were working on. Natalie is hoping to incite that same feeling into current college students in the hope that it will create additional enthusiasm and excitement about engineering and the SEAW. Natalie is looking forward to implementing new ideas as Outreach Chair along with helping guide the students. She feels that the role of Outreach Chair is most important because if we, as SEAW, want to continue developing our community, we need to invest in future engineers who will keep SEAW thriving for years to come.

Past Chair: Tyler Kurz
tkurz@dci-engineers.com

Social Representative: Morgan Wiese
Integrus Architecture
Morgan is a graduate of Washington State University Class of 2012. Through work Morgan became involved with the Young Members Forum last fall and has really enjoyed it because it has allowed him to meet other structural engineers of the same age as well as talk to committee chairs to learn what each committee has to offer. Morgan would like to get more people to utilize the YMF and believe he can accomplish this through the social representative position. His mission by getting involved with the SEAW is to help foster a better connection between the association and YMF in order to get young engineers excited about what is going on in the SEAW organization.

YMF Leadership Contact Information

President:
Eric Pope
epope@dci-engineers.com

Vice President:
Tyler Winkley
twinkley@dci-engineers.com

Social Representative:
Morgan Wiese
mwiese@integrusarch.com

Past Chair:
Tyler Kurz
tkurz@dci-engineers.com

Outreach Representative:
Natalie Aguilar-Carranza

Upcoming YMF Events

Sep 18 Happy Hour, 7:30 PM, Gordon Biersch, Seattle (following SEFW Fall Forum)
Sep 28 YMF Annual Picnic, 12:00 pm, Gasworks Park
Oct 8 Happy Hour, 5:00 PM, Vons 1000 Spirits, Seattle
Oct 15 Eastside Happy Hour, 5:00 pm, location TBA

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.
Each year, WoodWorks hosts an award program to recognize excellence in wood design and showcase innovative buildings that demonstrate wood's strength, beauty, versatility and cost-effectiveness.

**Categories:**
- Multi-Story Wood Design
- Wood in Educational Buildings
- Commercial Wood Design
- Institutional Wood Design
- Green Building with Wood
- Beauty of Wood
- Innovative Wood Engineering
- Wood in Government Buildings

**About WoodWorks**

Free project assistance for wood buildings

WoodWorks provides free resources related to the design, engineering and construction of non-residential and multi-family wood buildings.

For project assistance, email help@woodworks.org.

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WoodWorks
WOOD PRODUCTS COUNCIL
Committee Corner

Earthquake Engineering Committee, Andy Taylor, chair:

Next Meeting: Tuesday, Sept 2.

This is the bi-monthly meeting of the SEAW Earthquake Engineering Committee (EEC). We meet in the Fourth Floor Conference Room of the Westlake Center Office Tower.

The meeting agenda will be e-mailed to all EEC members a few days before the meeting. All SEAW members are welcome to attend. Bring your own lunch; waters and sodas will be provided. Remote connection via speaker phone and WebEx connection to projected images will be available. Please e-mail the EEC Chair, Andy Taylor, if you would like to receive information about the agenda and remote connection.

Sustainability Committee:
Kyle Steuck, chair:
Next Meeting: Wednesday, Sept 10, 3:00 PM

Topic: Building tour of the Autosport building adaptive reuse project in South Lake Union. Space is limited, RSVP to Kyle Steuck, ksteuck@degenkolb.com, 206.262.9240.

Disaster Preparedness and Response

Next Meeting: Tuesday, September 16th, 12:00PM.

Quantum Consulting Engineers, 1511 Third Ave Ste 323

Topics: Topics: State volunteers program, Cascadia Rising Subduction Zone & Tsunami Exercise, ATC-20 Classes. BYOL (We meet on the third Tuesdays)
Contact: Joyce Lem, joyce.lem@hdrinc.com, 425.450.6345

Public Information Committee

Next Meeting: Wednesday, Sept 17, 4:00PM (Tentative)
Location: GoToMyPC with video

Topics: Develop guidelines for responding to questions from reporters. Note: Meeting date and time is tentative.
Contact chair Darrell Staaleson, dstaal@staaleng.com, 253.520.0388, for information and GoToMyPC connection instructions.

Legislative Committee

Weekly Meetings Starting Jan 2015

Location: Call in / Olympia, WA & Bellevue, WA
Topic: Bills in the current Legislative Session
Contact: Tim Nordstrom, timn@starseismic.net

SEAW Seattle Chapter Equilibrium September 2014  Page 5
PSEC University Mentor Night
Help Needed
If you are interested in being a mentor for a night for college students, the Puget Sound Engineering Council (PSEC) needs your help! The purpose of the mentor night activity has been to bring as many practicing engineers together with as many students as possible. We are trying to inspire the students, most of whom are freshmen and sophomores as well as high school seniors, toward a career in engineering. The mentor night allows engineers to relay their experience in the profession and answer questions posed by students. The events offer an open forum where the students visit various tables and converse with the mentors. The mentors are asked to bring sample of their work, such as reports, drawings, models, that will fit on a 30"X30" table top for discussion with the students. In the past, some of the events have included over 40 mentors in 17 disciplines.

Annually, events are typically held at the following schools:

- University of Washington Bothell Campus – Wednesday October 29th, 2014, 6:00 to 8:00 pm
- Seattle Pacific University—October
- Seattle Central Community College—January
- North Seattle Community College—March
- Highline Community College—April
- Bellevue College—May

If you are interested in participating in any of these events and being included on the Section’s Roster of potential volunteers please contact Paul Grant at pgrant@pangeoinc.com for details.

Please use the following to sign up for the UW Bothell event: http://www.eventbrite.com/e/2014-uw-bothell-mentor-night-tickets-8245521577?aff=rss

Thank you for your support.

EERI Seminar—Save the Date:
Thursday, November 6, Seattle, WA.

The Earthquake Engineering Research Institute (EERI) is planning a day-long technical seminar on the State of the Practice for Performance Based Seismic Design of Tall Buildings, to be held in three cities, including Seattle on November 6, 2014.

For the last decade engineers in major cities along the West Coast have taken advantage of performance based design concepts to achieve structural designs of tall buildings that are not in strict compliance with the International Building Code prescriptive provisions. These projects reflected cumulative best state-of-the-practice information related to seismology, geotechnology, and structural design to provide the most complete platform for implementing performance-based seismic design concepts on major design projects.

The seminar will begin with a history of performance-based design and the use of guidelines documents published by the Pacific Earthquake Engineering Research Center (PEER) and the Los Angeles Tall Buildings Structural Design Council (LATBSDC) in conjunction with the building code to form the basis of design for these structures.

SEAW is a cosponsor of this seminar, and as such, SEAW members will be offered a reduced registration fee. Watch for further information to be posted on www.EERI.org and www.seaw.org.

Save the Date!
STRUCTURES CONGRESS 2015
April 23—25, 2015
Doubletree Portland Hotel and Oregon Convention Center
Portland, Oregon

Top 5 Reasons to Attend this Congress
- Network and make connections with leaders in your profession
- Gain knowledge by attending outstanding technical sessions—over 110 from which to choose
- Earn professional development hours (PDHs) in technical sessions
- Interface with students and young professionals
- Visit Portland for roses, parks, museums, outdoor adventure, great food, and so much more.

Visit the conference website for all the details www.structurescongress.org

Employment Opportunities

Structural Engineers
- New Zealand locations
- Work on high profile projects
- Learn from the experts
- Award winning consultancy

Holmes Group Limited is an internationally recognized company based in New Zealand, Australia and California. Their New Zealand based structural and civil engineering consulting firm, Holmes Consulting Group, are looking for structural design engineers experienced in seismic design and retrofit for their offices in Auckland, Wellington and Christchurch.

We’re looking for people with 5 or more years’ design experience, with a PE, for permanent positions. With proven experience leading noteworthy projects in a consultancy environment, your sound technical and commercial skills will be matched by your ability to manage key client relationships in a way that is creative and solution-focused.

This is a fantastic opportunity to work on a range of exciting projects as part of the largest structural engineering consultancy in New Zealand. Your work will be diverse and rewarding, ranging from designing new structures, to assessing, strengthening and retrofitting existing buildings. Visit our website to find out more about us and some of the recent projects we’ve been involved with: http://www.holmesgroup.com/

If you’ve got the experience we’re looking for please send your cover letter and resume to hocgr@holmesculley.com.

Structural Engineer
EISI, Ltd. is a small, but multi-discipline engineering firm located in the Magnolia area (at Fishermen’s Terminal). We are looking for an experienced Structural Engineer to help replace a retiring Senior Principal. We are looking for a licensed PE with at least 10 years of experience with a background in the design of industrial buildings and equipment, commercial buildings and waterfront structures. Experience in the design of cranes, below the hook lifting devices, liquid storage tanks, material handling systems and other types of industrial equipment would also be desirable. An ability to generate architectural details, especially for indus...
Employment Opportunities

(Continued from page 6)

trial facilities would also be helpful. We are looking for an individual who is interested in eventually becoming a Principal in the firm with stock ownership.

Past experience must include the ability to independently take a project from start to finish, work directly with our clients while providing the design and project management duties simultaneously. LO offers a benefit package for eligible employees. Please send a cover letter and resume with references EISI@eisi-engrs.com. No phone calls please.

California PE Licensed Structural Engineer

Lund Opsahl (LO), a growing structural engineering firm in the SODO neighborhood of Seattle, is looking for a structural engineer with two to four years’ experience, working toward or having acquired their California PE. This individual will be interested in furthering their engineering career in a firm that is committed to engineering excellence and professional development.

Our ideal candidate is goal oriented and highly motivated, having experience with a variety of building types and structures in various building materials. We are looking for a team player who welcomes challenges and can work independently or as part of a larger group.

Lund Opsahl provides innovative structural design based in an understanding of our clients’ needs that result in constructible, cost effective structural solutions. The company has assembled an ever-growing staff of skilled and dedicated professionals who share a commitment to excellence in structural engineering and client satisfaction.

LO offers a benefit package for eligible employees that includes health insurance with a Health Savings Account, a 401(K)/Profit Sharing plan, competitive salary range and more. This is a permanent, full-time position.

Unique Opportunity With Successful Architectural Firm

A prominent architectural firm is seeking a motivated leader with entrepreneurial spirit to establish and lead a structural engineering practice within the office. The successful candidate will provide in-house structural design services to architects, and conduct business development outreach to supplement workload as needed. Must be an out-of-the box thinker and must bring established industry connections.

Qualifications

Professional Registration and SE designation is required. 8-10 years of experience in commercial and residential design with a variety of structural types, i.e. wood, steel and concrete. Detailed understanding of building codes a must. Extensive knowledge of all aspects of professional services from contract negotiation through project close out including construction observation.

Project Related Duties

In addition to a management role, the candidate will be responsible for building system concepts and documentation processes. Prepare and document required code research, participate in development of the project cost model and design to it. Interface with all team members and clients. Document interpretation and submittal reviews during bidding and construction administration.

Please provide resume with work samples to bainbridgearchitect@gmail.com

Opportunities for Mid-level Design Engineer and Senior Project Manager:

Seattle Structural is a downtown Seattle firm looking for qualified professionals to join our talented group practicing across a number of different industries. Seattle Structural offers an excellent opportunity to work on a variety of public and private institutional, healthcare, educational, and commercial projects both domestically and internationally. We offer a competitive salary and a relaxed, collaborative work environment. Benefits include medical, transit reimbursement, and retirement matching.

Seattle Structural is a firm that makes it easy to become personally invested in the achievements of your company. Seattle Structural is an Equal Opportunity Employer.

We are filling two positions. Candidates must meet the following requirements:

· Mid-level Designer: 5+ years’ experience.
· Senior Project Manager: 10+ years’ experience.
· BS or MS in Structural, Civil/Structural, or Architectural Engineering.
· Experience in steel and concrete buildings, lateral analysis, deep foundations, and marine projects are desired.
· Working knowledge of CAD and Revit preferred.
· Strong emphasis on client service.
· Excellent communication skills.
· Strong technical skills.

Please address inquiries to: Howard Burton, President Seattle Structural PS Inc.
1420 Fifth Avenue, Suite 425
Seattle, WA 98101
HBurton@SeattleStructural.com
**SEAW Calendar**

**SEPTEMBER, 2014**

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<td>SEA Northwest Conference 2014</td>
<td>Grand Hyatt Seattle</td>
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<td>Wed-Sat 17–20</td>
<td>NCSEA Annual Conference</td>
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<td>Monday 22nd</td>
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<td>Seattle Chapter Board Meeting Noon meeting</td>
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<td>Sunday 28th</td>
<td>YMF Annual Picnic 12:00 pm</td>
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**Membership**

**Statewide 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.

- **Katherine Baldwin**
  - Member PE, Seattle
  - Coughlin Porter Lundeen, Inc.
  - University of Washington BS 2008
  - Licensed PE

- **Jessica Monroe**
  - Associate, Seattle
  - KPFF Consulting Engineers
  - Gonzaga University BSCE 2012, Stanford University MSSE, 2014
  - EIT

- **Aldin Behroozi Nobar**
  - Student, Seattle
  - University of Washington

- **Clayton Binkley**
  - Member SE, Seattle
  - Arup
  - University of Bath MEng, 2006 BA, 1999
  - Licensed SE

- **Kellen Brumbaugh**
  - Student, Seattle
  - University of Washington BS 2014
  - University of Washington MS 2015
  - EIT

- **Valerie Eskelsen**
  - Member PE, South Central
  - Canam Steel
  - BYU MS 1990
  - Licensed PE

- **Arthur Fellows**
  - Member PE, Seattle
  - Fisher and Sons, Inc.
  - Cal Poly State Univ. San Luis Obispo, BSCE 1990
  - Licensed PE

- **Jon Z Mjelde**
  - Member SE, Seattle
  - BergerABAM
  - Licensed SE

- **Rachel Vranizan**
  - Associate, Seattle
  - Coughlin Porter Lundeen
  - Seattle University BSCE, June 2012, Stanford University, MS Sustainable Design and Construction, June 2013
  - EIT

- **Gina Wagenleitner**
  - Associate, Seattle
  - Walla Walla University BSE - August 31, 2007
  - EIT

- **Steven Williams**
  - Associate, Southwest
  - PCS Structural Solutions
  - Washington State University BSCE - May 2013, MSCE - May 2014
  - EIT

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 seaw@seaw.org.

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.

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