



SEATTLE SECTION NEWSLETTER

December 2015
Volume 51 No. 4

Section Officers

October 1, 2015 – September 30, 2016

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ASCE Seattle Section Meeting

Wednesday, December 16, 2015

Place: Best Western Plus Executive Inn
200 Taylor Ave N, Seattle, WA 98109

Cost: Early Bird:
\$40 General Admission
\$15 for students and unemployed members
**(Early Bird Rates apply until 11:59 pm,
Sunday, December 6.)**

After December 6 :
\$45 General Admission
\$20 for students and unemployed members

Meal: Dinner will be a choice of two entrees, chicken (TBD) or fish (TBD).

5:30 Social
6:00 Dinner
7:00 Program

[Click here to register.](#)

For assistance with online registration, please contact
Don Nguyen at dnnng@b-t.com

Direct questions or comments regarding meetings to
Section President Evan Sheesley at
seattleascepresident@gmail.com

Program — The Future of Infrastructure Investment in the State of Washington

The December meeting will focus on the future of infrastructure investment in the state with a focus on the upcoming legislative session, including a look at the recently passed transportation package, future school funding, alternative infrastructure funding, and the overall capital budget. Panelists are scheduled to include Sen. Bob Hasegawa (D-Seattle) and Sen. Bruce Dammeier (R-Puyallup), as well as Diane Pottinger from the Public Works Board. *NOTE THAT SEN. DAMMEIER IS NOT YET CONFIRMED AS OF THE TIME OF NEWSLETTER PUBLICATION.*

The next newsletter deadline is:
5:00 p.m.
Sunday, December 20, 2015

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Newsletter Editor:  
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**AMERICAN SOCIETY OF CIVIL ENGINEERS, SEATTLE SECTION**  
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**President's Column**

**By John Gaffney, MS, PE, M.ASCE,  
Seattle Section North Branch President**

*Thank you Big Brother!*

No, I'm not talking about some controlling computer system, I'm talking about the Seattle Section of ASCE. The members and officers of the North Branch would like to take this opportunity to thank you for all your support over the years. The North Branch has long been a refuge for those who seldom travel south of Skagit County on a weekday night and it's in large part thanks to your support that we continue to thrive. Maybe you would rather us northerners just stay out of Seattle but I'd like to think it's that you see the value in helping provide a more local ASCE experience.

This last year your support helped make by-monthly meetings happen with a wide range of invited speakers. We also were able to have our second annual summer picnic. This year we held the picnic with the local Licensed Surveyors Association of Washington (LSAW) to help everyone develop relationships in a fun family setting. Our Younger Member Forum (YMF) group has continued to grow with social events scheduled throughout the year. This year they are also hosting a ski trip for younger members that will bring together folks from the Seattle and Portland YMF groups. The Seattle Sections support of our YMF group and the example they set with their high energy group has inspired the North Branch's members to continue to improve participation and host events. The North Branch has also been supporting the development of an ASCE Student Chapter at the Washington Engineering Institute (WEI) in Bellingham. The WEI Student Chapter is nearing the end of their one year introductory period and will soon become an official chapter. Again the support we get from the Seattle Section has allowed the Branch to help host meetings and buy Pizza for the students. Many of these students have graduated and are now participating in ASCE either in the North Branch or elsewhere. The North Branch

*See **President's Column** on page 3*

**December Speaker Bios**

**Sen. Bob Hasegawa (D-Seattle)** has represented the Beacon Hill neighborhood of Seattle for the last two years, working in the House of Representatives and as a Teamsters union leader prior to that. He is the Ranking Member on the Commerce & Labor Committee and serves on the Ways & Means and Rules Committees as well.

**Sen. Bruce Dammeier (R-Puyallup)** has represented the 25th District around Puyallup for the last two years, serving in the House of Representatives and as a small business owner and engineer prior to that. He was the Senate Republican Caucus Vice Chair and serves on the Ways & Means and Rules Committees.

**Diane Pottinger** is General Manager of the Shoreline Water District and was appointed by Gov. Jay Inslee to the state Public Works Board in 2013.

*President's Column (continued from page 2)*

has focused our volunteering efforts with the Skagit Fisheries Enhancement Group (SFEG) and a number of our members attend regular riparian vegetation planting parties on all kinds of weather. SFEG has also be an outlet for the WEI Student Chapter to get real world engineering experience. This year they helped complete surveying and design for a Family Forest Fish Passage Project (FFFPP) culvert replacement in conjunction with SFEG and one of the Chapter's mentors.

All in all the North Branch may be small but our ambitions are large and thanks to the example set by the Seattle Section our aim is to continue to help our members grow professionally and promote the benefits of ASCE membership.

Respectfully, your little brother branch!

## 2016 Richard Williamson Jones Scholarship

By Stefanie Herzstein, PE, PTOE, M.ASCE,  
Immediate Past President

The Seattle Section is seeking applicants for the Richard William Jones Memorial Scholarship. The Scholarship was established by his wife, Kathie, because Richard often commented that when he was a student, he would have been much better off if he had just had a little more money for books and supplies. The scholarship continues through Kathie Jones' estate.

Richard Jones was a civil engineer and a member of the Seattle Section of ASCE, when he died in an airplane crash at the age of 53. He was a graduate of the University of Washington and was admitted as a Member of the Society in 1949 and as a Fellow in 1959. Mr. Jones joined General Construction Company in 1933 where he worked on many projects in the Seattle and Portland area, including the Bonneville Dam and as Chief Engineer on the Hungry Horse Dam. At the time of his death, he was Executive Vice President of General Construction Company.

The maximum scholarship amount distributed annually is \$2,000. The deadline for the next award is **February 29, 2016**. For more information please [read the application](#) or contact Stefanie Herzstein at [stefanie.herzstein@transpogroup.com](mailto:stefanie.herzstein@transpogroup.com) or 425-896-5219.



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## Puget Sound Engineering Council Engineer of the Year Award Nominations

Every year, the Puget Sound Engineering Council (PSEC), a consortium of regional professional engineering organizations, hosts an award program for distinguished engineers at an annual banquet during Engineer's Week in February. Among the societies participating in PSEC, each is allowed to make a nomination of a single engineer for an award in each of the following categories:

- Academic Engineer of the Year
- Engineering Educator (non-teacher) of the Year
- Government Engineer of the Year
- K-12 STEM Engineering Teacher of the Year
- Industry Engineer of the Year
- Professional Engineer of the Year
- Young Engineer of the Year

During the month of December, the Seattle Section of ASCE will develop a list of nominees for these

## Seattle Section Geotechnical Group Dinner Meeting

Thursday, December 17, 2015

Topic: Innovative Uses of Ground Freezing for Civil Construction Projects  
Speaker: Dan Mageau, PE, Larry Applegate, and Aaron McCain, PE of SoilFreeze, Inc.  
Time: 4:30 Planning Meeting, 5:30 Social Hour, 6:30 Dinner, 7:30 Program  
Place: Red Lion Hotel Bellevue, 11211 Main St, Bellevue, WA 98004, 425-455-5240

For details and registration, visit [www.seattlegeotech.org](http://www.seattlegeotech.org).

categories. If you are interested in nominating a Section member for one of these awards (self nominations included) or for more information on the program, please contact Paul Grant at [pgrant@pangeoinc.com](mailto:pgrant@pangeoinc.com) or 206-262-0370.

## Employment Notice

To post an employment notice in the newsletter and on the Section's web site, please contact the [newsletter editor](#) in advance of the monthly deadline (the 20th of the month). Rates for advertising are shown on page 2.



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- Bachelor's degree in Civil or Architectural Engineering from an accredited University
- PE is strongly preferred
- 5+ years Forensic investigation experience is required
- Past litigation experience is required
- Practical Engineering background with experience in structural damage evaluations and structural analysis
- Experience with structural engineering design and detail repairs for damaged structures
- Experience in post catastrophe damage evaluations, e.g. earthquake/hurricane/wind/floods a plus
- Ability and desire to share forensic and litigation/deposition knowledge to less experienced team members preferred

## Featured Project

Each month, the ASCE Seattle Section newsletter is featuring one of the projects that received the Section's Local Outstanding Civil Engineering Achievement Award in 2015.

# 2015 ASCE Seattle Section Local Outstanding Civil Engineering Achievement in Water Resources: Green River Filtration Facility

By Jason Moline, PE, M.ASCE

The Green River Filtration Facility (GRFF) added a physical barrier between the Green River and the tap for approximately a half million people, including wholesale and partner utilities served by Tacoma Water in Pierce and south King Counties. With an ultimate capacity of 168 million gallons per day, the GRFF is the largest potable water filtration facility in the northwest United States.

The previous unfiltered system, originally built in 1913, sent as a daily average approximately 1,000 pounds of fine sediment into drinking water pipes.

Now coagulants are added to the raw water, which causes silt suspended in the water to clump into larger particles that settle out in the new plant. Remaining particles are removed through filters containing 50 inches of anthracite coal and 20 inches of engineered sand. The removed solids are dewatered on site and pushed through 20-foot long, 6-foot tall screw presses that further separate the dirt from the water. The process typically produces one or two large truckloads of residuals per week on average.

Through a Partnership Agreement, the Covington Water District, City of Kent, and Lakehaven Utility District fund approximately one-third the costs in exchange for a corresponding share of the water produced.

### Schedule

In 2006, the Environmental Protection Agency required that, to meet new national standards for public health



*Aerial view of the Green River Filtration Facility.*

protection, water utilities provide treatment by 2014 for *Cryptosporidium*. This is a pathogen that can cause disease in humans. Mandatory *Cryptosporidium* testing was done from 2006 to 2008. Together with a strong HDR/CH2M consulting team, Tacoma Water evaluated treatment options, especially filtration or ultraviolet (UV) light disinfection.

As part of its outreach efforts, Tacoma staff provided dozens of presentations to neighborhood councils, businesses, and civic groups over a one-year period. In 2010, filtration was selected for meeting the federal requirement to treat *Cryptosporidium*. In addition to meeting current and reasonably anticipated public health regulations, filtration improves the water by improving taste and clarity. It minimizes natural organic material in river water, which reduces disinfection byproducts that are suspected to cause cancer. The

facility reduces the amount of silt and sand entering water pipes, which had to be cleaned out and occasionally became resuspended in the water. Furthermore, the GRFF makes river water available that is negatively impacted by seasonal water quality conditions.

Detailed design by MWH Americas was completed during 2011 and 2012. O&M staff was included for fast and effective decision-making to keep the project moving at a crisp pace.

The General Contractor/Construction Manager process was used to obtain early input from the general contractor during the design process. This helped reduce claims, and facilitate coordination with existing facilities that had to continue to supply the water system during construction. Hoffman Construction Company was selected based on their proven capability to plan, organize,

See **Featured Project** on page 6

**Featured Project** (continued from page 5)

and execute a project of this magnitude. Construction began in 2012 and was substantially complete in 2014.

**Innovative Features**

The GRFF incorporates several technologies that distinguish it from other local filter plants. Ground modification techniques were used to address unusual subsurface conditions, as well as high seismic activity in the region. Rammed aggregate piers help support select structures.

During the winter, the Green River is subject to flashy water quality conditions with high turbidity events. During the summer, water demand is high and river turbidity is consistently low. Therefore, the plant is a hybrid conventional/direct filtration plant, where the sedimentation basins are taken offline during the summer. This results in smaller sedimentation basins, as well as reduced chemical and energy use during the dry season.

The site had few viable options for disposing of the solids stream of fine sediment removed during water treatment, so a zero-liquid discharge plant was built. The relatively remote location has no nearby sewer system to which to discharge residuals. Steep slopes, streams, and wetlands left insufficient land available for drying beds, especially since this area receives an average of 96 inches of rain annually. A mechanical dewatering system was installed to concentrate solids to approximately 30%, which is similar in feel to moist soil. The size of the mechanical dewatering system was kept down by including an Emergency Sludge Storage Basin to temporarily hold excess solids during occasional extreme conditions or equipment malfunction.

This system also includes screw presses, which use a slowly rotating drum as the final stage of dewatering. These are used in multiple nearby wastewater treatment plants, as the presses are very reliable and easy to operate. This is believed to be the largest application of screw presses to drinking water treatment in the United States.

**Cost Effectiveness**

Ideas from two value engineering sessions during design saved about \$12 million. Purposefully accelerating early work to take advantage of the slowly recovering economic climate in early 2012 resulted in extremely competitive pricing. Approximately \$121 million of low-interest state and federal loans were obtained.

An existing 10 MG steel tank that had been used to store well water was repurposed to reduce the volume of new storage required for filtered water, saving around \$5 million. The existing system for blending with North Fork well water was retained, reducing expenses by an estimated \$4 million through reducing solids handling. Pre-ozonation facilities were unchanged. Gravity flow through the plant was mostly maintained, as was use of the existing transmission mains for chlorine contact time. The superstructure of the upstream intake was unchanged, but several modifi-



*Screw Presses: Two screw presses each use a slowly rotating drum as the final stage of the solids dewatering system.*



*Solids Loading Area: One or two large truckloads of dewatered residuals, which are similar in feel to moist soil, are produced per week on average.*

cations were made to enhance coarse sediment removal here without any work in the river. These reuse efforts reduced both environmental impacts and cost.

The project is on schedule and under budget. At project onset, the total budget was at \$220 million including both hard and soft costs. Even though intake improvements and emergency conduit repairs were added to this project during construction, the projected cost at completion is now below \$185 million. This construction cost of around \$1 per gallon of daily capacity makes the GRFF one of or perhaps the least expensive filtration plant of its size per gallon in the country.

*Jason Moline, P.E., served on the Green River Filtration Facility project team as a Principal Engineer with Tacoma Water.*

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## ASCE Seattle Section Executive Board Minutes for October 23, 2015 Meeting

### Attendees:

Amanda Schweickert  
Courtney Davis  
Evan Sheesley  
Gene Gladden  
Kelli Dean  
Lisa Harbert  
Stefanie Herzstein  
Tony Nguyen

Meeting called to order at 12:02pm by Evan. MOTION to approve agenda Lisa, seconded by Stefanie and passed unanimously.

MOTION to approve meeting minutes for September (as amended) by Lisa, seconded by Kelli and passed unanimously.

### Old Business

- Coordination with Master Builders (Lisa)
  - Talked to them in October. Hopefully resolution later this year. Potentially November.
- Immunity for Liability for Covered Volunteers (Stef)
  - A couple of groups have gotten together including SEAW to put legislation to give immunity to groups such as ASCE and SEAW for liability in disaster relief effort. We would be liable since we are not covered currently on the Good Samaritan Act.
  - Still finding interested parties to push forward.
  - Amanda S. to try to reach out to legislative committee.
  - Send to ASCE National for review the current draft legislation.
- Higher Logic (Evan)
  - Courtney and Kelli do not have access. Access controlled by ASCE National by member list. Will be contacting them to add additional names for access.

### New Business

#### Treasurer's Report and Action Items - Gene

- Approval of June Report
  - Deferred until next meeting
- Approval of September Report
  - Deferred until next meeting
- **Action Items**
  - Transitioning to Quicken to make things more efficient. Goal is January transition.

#### Membership Chair Report and Action Items - Kelli

- Based on the new membership information from the ASCE national database, downloaded on October 14, 2015; 16 new members have enrolled with the Seattle Section since September 1, 2015. Of these new members, 14 joined in September and 2 members joined in October.
- As of October 14, 2015, the Seattle Section and Branches have 2,497 members; this is an increase of 16 new members since the beginning of September and 109 more than the same time a year ago.
- Having a Renewal drive (separate from new member drive).
- **Action Items**
  - Announce membership drive at next meeting.

#### Standing Committees Report and Action Items - Amanda Schweickert

- Audit Committee - VACANT
  - Vacant
- ASCE/SEAW Lifeline & Earthquake Engineering Committee - VACANT
  - Vacant
- Legislative Committee - Shane Binder
  - Planned Activities
    - December Section Meeting - Civil Engineers in politics and the outlook for public works funding in the next state legislative session. Speakers: Sen. Bob Hasegawa (D-Seattle), awaiting confirmation for Sen. Bruce Dammeier (R-Puyallup) and Diane Pottinger from the State Public Works Board (PWB).
    - RCW 18.43 - Larry Costich is continuing with moving the revision effort forward.
    - Discussion of Low-Carbon standards and ASCE's support of both infrastructure spending and sustainable building. May work with Sustainability committee on this topic.
  - Announcements
    - Legislative Fly-In March 15-17 in DC - the committee would like to nominate 2 people; most likely Shane Binder and Jessica Aguilar.
  - **Action Items**
    - AELC back dues owed by ASCE

See **October Minutes** on page 8

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**October Minutes** (continued from page 7)

- Diversity Committee – Diana Giraldo/Jacyln Hayden
  - No Update
- History and Heritage – Cindy Hirsch
  - Resuming work on Landmark Brochure
  - Looking at a new possible historic landmark: the Denny Regrade, no formal research has commenced yet.
  - Working on a History & Heritage Committee meeting
  - **Action item**
    - Reminder to gather archiveable materials from the 2014-2015 year from the treasurer, secretary, past President and YMF
- House and Hospitality – Don Nguyen/Katie Sultan-Wright
  - Looking into options and costs of speaker gifts for the year
  - Setting up House & Hospitality Chair Task List and Timeline
  - Looking for committee members to help with registration
- Order of the Engineer – Amy Riley
  - No Update
- Professional Practice – Ed Huston
  - No Updates
- Program Chair – Younes Nouri
  - Venue is booked through December
  - Oct meeting is all set
  - Nov: P&H has promised they would get info to us by mid-Oct
  - Dec: Leg. Committee making good progress
  - January: Evan is up to speed with this. Geotech is proposing we have a joint meeting with them in Jan instead of Feb, Evan is waiting for Stef's response on this I think.
- RH Thomson Scholarship – Emily Spahn/Casey Nelson/Lorelei Williams
  - Two of the three current RH Thomson scholarship students have gotten their funds this year. A reminder was send to the third student to have her send the RH Thomson committee a copy of her class schedule so the funds can be released.
  - Casey will be taking over as chair this year -- we still need to meet to go over the transition, this will happen in the near future.
- Public Information – Rachel Blomker
  - No Updates
- PSEC – Paul Grant
  - Past Activities
    - Bellevue College Mentor Night – May 6th – 30 students and 19 mentors where at least 6 mentors were ASCE members
    - Inter Society Officer Workshop – May 9th – 28 total attendees including 2 from ASCE ( Bobbie Gilmore and Evan Sheesley)
  - Bylaw updates
  - Announcement
    - Seattle Pacific University Engineering Mentor Night – October 27th
- University Advisory Committee – Amy Riley
  - No Update
- Washington State Board of Registration Representative – VACANT
  - Vacant
- EWB-USA Puget Sound Professionals (PSP) Chapter – Eset Alemu
  - Announcement
    - Uganda Benefit Concert – Oct 15th at Fremont Abbey
  - **Action item**
    - \$1000 donation to EWB-PSP from ASCE
- Community Service – Kristina Lowthian
  - No event in September
  - October Community Service - Heron Rookery
  - Saturday, October 17, 10am-12pm @ Heron Rookery (Bear Creek Pkwy and 161st Ave NE, Redmond)
    - Join the Green Redmond Partnership at Redmond's Heron Rookery for a maintenance party to remove invasive ivy and trash. To sign up for the event or for more information, please contact Kristina Lowthian at nalani83@gmail.com.
- K-12 Outreach – Eset Alemu and Owen Matsunobu
  - Puget Sound Engineering Council (PSEC), is hosting a Mentor Night at Seattle Pacific University on October 27 at 6pm. This event provides students with an opportunity to meet representatives

See **September Minutes** on page 9

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## October Minutes (continued from page 8)

from a wide spectrum of practices in the profession of engineering. It helps students interact with professional engineers, learn about different fields in civil engineering, and explore internship and employment opportunities.

- Inna has been in contact with Lake Steven's High School in terms of creating an ASCE club.

## Branch Reports and Action Items - Amanda Shellenberger (Not Present)

- North Branch (by John Gaffney)
  - Held annual summer picnic in July and had representatives from the City and County come to talk about park improvement projects and Lake Whatcom's TMDL. Around 20 people attending including families. Land Surveyor's Association of Washington (LSAW) members were also in attendance.
  - Had our September members meeting in Bellingham with Mark Larson from Anchor QEA coming to talk about the on-going Whatcom Waterway Cleanup Project. Turnout was just over 20. We also held our annual officer's elections with these unanimous results:
    - President - John Gaffney
    - Vice President - Melisa Gehrman
    - Secretary / Treasurer - Eric Anderson
    - YMF President - Jennifer Allen
    - YMF Vice President / Secretary - Andy Brew
    - YMF Social Coordinator - Steven Costello
  - Setup our October Officer's meeting to plan for 2016 and finish details on the November 18th members meeting.
- Kitsap Branch (by David Dinkuhn)
  - No update provided
- Boeing Branch
  - ACTION ITEMS: Amanda Shellenberger to work on trying to get into contact with Boeing ASCE representatives.

## Technical Committees Reports and Action Items - Lisa

- Sustainability Committee
  - The ASCE sustainability committee met for our check-in meeting on September 4th. Five (5) committee members met to discuss upcoming events, articles, tours, and meetings. No events are planned for October. We will send out information for upcoming events when they materialize the winter.

- Water Resources
  - We had 16 attendees at our September meeting. The October meeting has been cancelled due to speaker cancellations.
- Geotechnical Group
  - ASCE Seattle Section Geotechnical Group held a joint dinner meeting with AEG Washington on September 17, 2015. The topic was the Nepal Earthquake Recovery, presented by Jared Smith, and 70 people attended. Our October dinner meeting will be on October 29th, and the topic is "Dynamic Soil-Structure Interaction Analysis for Base-Isolation Design of the SR 520 West Approach Bridge - North" by Jeremy Butkovich, PE, -Shannon and Wilson.
- No other reports submitted.

## YMF Report and Action Items - Courtney

- Past Events
  - June 29 - September 20 - ASCE Soccer Team - Summer Season [7 YMs]
    - Games were on Wednesday evenings at various fields around Seattle. All experience levels are welcome to join.
  - September 14 - Eastside Networking [14 attendees]
    - We had great attendance to kick off a new year of Eastside networking events. Lots of new faces, a solid turnout overall, and some pretty good food. Looking forward to some more good turnouts in the future. Photo attached.
  - September 17 - Seattle Networking [15 attendees]
    - Despite the rain, we had a great turnout for our first west side happy hour of the year! Everyone gathered at Kells Irish Pub & Restaurant on Post Alley near Pike Place Market to catch up and enjoy HH-priced drinks and Irish food.
  - September 19-21 - ASCE Younger Member Leadership Symposium
    - The YMF sent two members to the YMLS this year. Jared, President Elect, and Diana Hasegan went (she had interest to go and since Cal Bearman, President, could not make it, we sent her instead). This is a leadership development workshop developed specifically for younger members. It is focused on your professional career and included sessions about communication, personalities in the workplace, and management.

See [October Minutes](#) on page 10

• **Upcoming Events**

- October 12 - Networking (Bellevue)
- October 15 – SR 520 Floating Bridge Tour
  - EWB Benefit Concert
  - JFS Mock Interview
- October 17 – Community Service Event – Redmond Heron Rookery
- October 20 - Networking (Seattle)
- October 22 – Lake Stevens High School ASCE Civil Engineering Club Kickoff
- October 27 – PSEC Mentor Night @ SPU
- November 8-11 – Emerging Leaders Alliance Conference
- February 6 – Popsicle Stick Bridge Competition 2015

• **Committee Activities**

- On-going soccer league
- ~~Determining the allocation of excess WRYMC funds~~
- Transitioning officer and chair positions for the new ASCE year

• **Action Items**

- Taxes
- New officers as of October 1, 2015
  - YMF Board Representative – Courtney Davis
  - YMF President – Cal Bearman
  - YMF President-Elect – Jared Nakamoto
  - YMF Treasurer – Tara Burton
  - YMF Secretary – Inna Tasmaly
  - YMF Past Executive – Bethy Clark
  - YMF Bellevue Program Chair – Leo Moyer
  - YMF Community Service Chair – Kristina Lowthian
  - YMF K-12 Student Outreach Chair – Owen Matsunobu
  - YMF Popsicle Stick Bridge Coordinator – Don Nguyen
  - YMF Popsicle Stick Bridge Coordinator – Bobbie Gilmour
  - YMF Scholarship Chair – Diana Hasegan
  - YMF Seattle Program Chair – Schyler Hect
  - YMF University Liaison SU – Hillary Tervet
  - YMF University Liaison UW – Mark Chen
  - YMF Sports Activities Chair – Elyssa Dixon
  - YMF Professional Development Chair – Lynette Sla
  - Web Master – Eric Knigge
  - Executive Workshop Chair – Inna Tasmaly
  - Golf Tournament Chair – Shelley Collins

- We raised \$1,173.10 from the golf tournament. Based on the profit distribution, which was determined by the amount of sponsorship funds that each organization pulled, SEAW made \$615.49 and ASCE made \$557.61.
  - Tara is writing a check to SEAW for \$115.49 because one of the sponsors indicated that they would be mailing their \$500 contribution to SEAW directly.
- Have Section Board Members to come to YMF Happy Hours. Schedule ahead of time with Board Members so can be a drawing focus for the Happy Hour.

**Other New Business**

• **Future Board Meetings – Evan**

- Online versus On-site Meeting. Moving forward with Online Meetings. Board Members are still responsible to go to Section Meetings but will not have the board meeting before dinner meetings. Will still schedule in-person Board meetings every few months.

• **Fall Assembly Highlights – Evan**

- Have a Washington Section? Next meeting discussion. Need a network to establish more communication within WA Section.

• **Connecting with other Washington Sections – Evan**

- Greg Kinney will help organize a meeting to organize the vision of the Sections' leadership. Greg recommended that we reach out to Jim O'Brian to help with this meeting. More communication with Inland Empire.

**Miscellaneous**

- Next membership meeting will be November 19th.
- Next Board Meeting will be November 18th .
- Meeting called to a close at 5:16 pm.

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**See advertising details  
on page 2**

## 2015 Fall/Winter Continuing Education Seminars and Workshops for ASCE Region 8

The following seminars and workshops have been produced by ASCE's Continuing Education Department with ASCE members in mind.

| Program                                                                                                         | Dates                | Location       |
|-----------------------------------------------------------------------------------------------------------------|----------------------|----------------|
| Earth-Retaining Structures: Selection, Design, Construction, and Inspection – Now in an LRFD Design Platform    | December 10-11, 2015 | Scottsdale, AZ |
| Structural Renovation of Buildings – Newly Updated for 2012 IBC and IEBC                                        | December 10-11, 2015 | Las Vegas, NV  |
| Bridge Rehabilitation                                                                                           | December 10-11, 2015 | Seattle, WA    |
| Design of Lateral Force-Resisting Systems Using the 2015 International Building Code – NEWLY UPDATED            | January 21-22, 2016  | Seattle, WA    |
| Design of Foundations for Dynamic Loads                                                                         | January 27-29, 2016  | Scottsdale, AZ |
| Dam Breach Analysis Using HEC-RAS                                                                               | February 3-5, 2016   | Las Vegas, NV  |
| Streambank Stabilization for Restoration and Flood Control Projects                                             | February 10-12, 2016 | Seattle, WA    |
| Structural-Vibration Analysis: Design and Troubleshooting                                                       | February 24-26, 2016 | Las Vegas, NV  |
| Structural Design for Bomb Blast Loads and Accidental Chemical Explosions (Buildings and Industrial Facilities) | March 2-4, 2016      | Las Vegas, NV  |
| Water Hammer in Transmission and Distribution Systems                                                           | March 10-11, 2016    | Seattle, WA    |
| Aluminum Structural Design with the 2015 Aluminum Design Manual – NEWLY UPDATED                                 | March 17-18, 2016    | Scottsdale, AZ |
| Design of Concrete Pavements                                                                                    | March 17-18, 2016    | Portland, OR   |



**Be first.**

## The 2016 ASCE Section Renewal Race

**Fast Track Our Section to Win \$1,000!**

The three Sections with the highest percentage of renewed members by December 11, 2015, will win a cash prize of \$1,000!

Get into the Renewal Race today, pay your Society and Section dues, and keep our Section on pace to win \$1,000. Your renewal supports valuable local programs and is always appreciated!

Renew your ASCE membership by December 11, 2015 – and encourage fellow Section members to do the same!

**Go to [www.asce.org/finishline](http://www.asce.org/finishline).**

For contest rules, go to [www.asce.org/finishline/rules](http://www.asce.org/finishline/rules).



The Structural Engineers Association of Washington Presents

# A Briefing on the **2015 Nepal Earthquakes**

PRESENTED BY THE SEAW DISASTER PREPAREDNESS AND RESPONSE COMMITTEE



On April 25, 2015, a magnitude 7.8 earthquake struck Nepal. It and aftershocks killed more than 9,100 people and inflicted severe damage to many structures. Through the non-governmental organization, Global Fairness, two teams of engineers from the U.S., New Zealand, and Australia flew to Nepal in May to perform post-earthquake building assessments. Please join us for an evening with the three SEAW members—Scott Douglas, Pete Opsahl, and Sabina Surana—who served on these teams in Nepal. They will share their experiences, including the nature of the work, the structures they evaluated, building failure types, and the people and conditions they encountered. They will also discuss the use of the ATC-20 post-earthquake evaluation methods in a third world country.

## GENERAL INFORMATION

Monday, December 14, 2015  
4:00—7:00 PM (check-in begins at 3:30 PM)  
Seattle University Pigott Auditorium

## SEMINAR COST

(includes parking and refreshments at intermission)

|                                    |      |
|------------------------------------|------|
| SEAW, AIA, EERI, ASCE members*     | \$50 |
| Non-members                        | \$70 |
| SU/UW students, SU faculty/staff** | Free |
| Late registration fee, additional  | \$10 |

\*2015 dues must be paid    \*\*Registration required due to limited seating

## BRIEFING TOPICS

The Events • Our Task • Seismicity in Nepal and Faults • Culture and History • Building Damage Observations • Engineering History • Geography of Nepal • Challenges and Lessons Learned • Road to Recovery • Reflections On Our Progress

## REGISTER ONLINE

Please register by **12:00 PM, Friday, December 4, 2015**, to avoid late charge fee. Prepayment is required. A Certificate of Continuing Education for 3.0 PDH will be available.

## Directions to Seattle University Pigott Auditorium

- **(From Northbound I-5)** take the James Street exit. Turn right and continue to Broadway, at the top of the hill. Cross Broadway and go downhill to 12th Avenue East. Turn left and then turn left again at Marion Street and enter campus at the Visitor Parking Entrance.
- **(From Southbound I-5)** take the James Street exit. Continue through to the second light and turn left onto James Street. Then follow Northbound directions to Visitor Parking Entrance at 12th and Marion (see above).
- **NOTE: Carpools are encouraged. Arrive early.** Registration includes parking on campus. Inform the parking attendant that you are attending the Nepalese Earthquake Briefing in Pigott Auditorium. If parking is not available in the visitor lot, you will be directed to another lot on campus (approximately 10 minute additional walk).

**REGISTER ONLINE** [www.seaw.org](http://www.seaw.org)