



# EQUILIBRIUM

Newsletter of the Seattle Chapter  
Structural Engineers Association of Washington

March 2012

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### March Meeting

SEAW Southwest Chapter  
hosts on Tuesday April 24

"LeMay Car Museum,  
Tacoma, WA"

## Joint ASCE/SEAW March Meeting: Aberdeen Pontoon Construction Facility

KPFF will present an overview of the design and construction of the new 55-acre casting basin site in Aberdeen, Washington. The casting basin is being used by WSDOT to build 33 concrete pontoons for use in the new SR 520 floating bridge across Lake Washington. The primary pontoons are 360 feet long by 75 feet wide by 28 feet tall and will be cast in six cycles of construction.

The Aberdeen Casting Facility includes:

- A 20-acre concrete casting basin
- 110-foot-long moveable steel gate structure
- Sill, jamb, and bulkhead structures
- Elevated mobile crane rail structures on each side of the basin
- Access piers
- Hydraulic control structures to flood and drain the basin
- Dredging an approach channel with marine structures for pontoon launching

### KPFF Biographies

Bob Riley is a registered structural engineer in Washington and California and has 20 years of experience designing and managing a wide range of projects including buildings and marine structures. He is currently designing structural anchors for the new SR 520 floating bridge project and was engineer of record for the casting basin.

Trevor Lighty received his BS in civil engineering from Purdue University and is a registered civil engineer in California. Trevor has four years of experience as design engineer for numerous marine and industrial projects and for the past two years, has been intimately involved in the design and construction of the SR 520 Bridge Pontoon Construction Facility. His previous work includes the design of a bulk terminal for the Port of Tacoma, a marina for the Port of Bellingham, and a replacement fender system for PSNS Bremerton.



## Meeting Information

**This presentation is valued at 1.5 PDH**

Register online at [www.seaw.org](http://www.seaw.org).

**Date:** Wednesday, March 14, 2012

**Place:** Mayflower Park Hotel  
405 Olive Way, Seattle, WA  
(complimentary parking in garage while space is available)

**Time:** 5:30 PM      Social Hour  
6:30 PM      Dinner & Announcements  
7:30 PM      Program

**Menu:** Choose between:

Pan roasted chicken breast with garlic  
mashed potatoes

-- or --

Risotto with seasonal vegetables

**Price:** General Admission      \$40.00  
Students\*      \$15.00  
Add \$5.00 for reservations made after Noon,  
Friday, March 9

\*unemployed *current* members may register  
at the student rate

Reservations are being managed by SEAW. VISA/  
Mastercard are accepted online only; cash or  
checks made payable to ASCE will be accepted at  
the door.

# From the Board: SEAW and the Future

-by Cale Ash



First of all, I am very excited to be writing my first "From the Board" article. I have been a SEAW member since 2005 and began my active involvement with the Younger Member Forum. We have a great organization and I have found membership to be a very rewarding experience from both a professional and a personal standpoint. I have developed a strong network of colleagues through SEAW and have benefited from the many continuing education opportunities that we offer.

This past year has been a particularly exciting time for me and for our organization. Both personally and professionally, I have experienced many changes and been presented with new opportunities. Last March I traveled to Christchurch for an earthquake reconnaissance effort and was able to share some lessons with our membership at the April dinner meeting. It was at this meeting that I learned that I had been elected to serve as a board director. Now, less than a year later I find myself serving as Vice President of the Seattle Chapter and a trustee on the State Board. What a series of events!

SEAW has also been experiencing its share of changes over the past few years. From the size and format of the

Seattle Chapter and State Boards to the organizational direction and committee structure, many aspects of SEAW have been refined to better serve our members. Some of the changes, like forming a Sustainability Committee and a BIM Committee, were made to keep pace with the current state of the practice. Other changes, like increasing the meeting frequency of the State Board, were made to improve our organizational responsiveness and ability to serve committees.

With these changes in mind, I am encouraging all of our members (especially our younger members looking to branch out beyond the YMF) to become more involved in our organization. I encourage you to find an opportunity that combines your personal and professional goals while contributing to the structural engineering practice. Here are just a few of the opportunities available:

**Continuing Education**—The results of the member survey indicate that our members look to SEAW to provide continuing education opportunities. This includes items such as the refresher course, seminars, and dinner meeting technical topics. Washington State is considering mandatory continuing education for licensed engineers; there will be a chance for SEAW to serve our members by providing high-value educational programs. The Education Committee is a statewide committee that is looking for active participants who have a passion for mentoring and facilitating educational opportunities for our members.

**Membership**—In order for SEAW to achieve its vision, we need to engage our membership and encourage their active participation. One goal is to increase member involvement and provide opportunities for members that are not located near one of our current chapters. The Seattle Chapter has an active Membership Committee; with additional participation this committee can turn its focus statewide.

**Website / Technology**—Our website is the face of SEAW and a source of information to both the public and our own members. The public should be able to quickly learn about our profession and our organization. Our members should be able to find information about committee activities along with upcoming events. A new website could also contain technology designed to allow our members to participate remotely in committees. For instance, within the Public Information Committee we have been using tele- and web-conferencing tools to facilitate attendance by Spokane and Southwest Chapter members at our meetings. There are some exciting possibilities for the future of our website and technological tools – the Technology Committee is looking for savvy members to lead these efforts.

**Seattle Users of BIM Structural Committee**—Our newest committee also has one of the best acronyms. SUBS was previously a stand alone building information modeling (BIM) user group and just became a Seattle Chapter committee in January. They already have rep-

resentatives from many local firms and are looking for more widespread participation to help establish the standard of BIM practice in Seattle. SUBS is also a venue for sharing tips and lessons learned from past BIM projects.

**Advocacy & Public Outreach**—Of course, I also have to mention the opportunities available within the Public Information Committee. The member survey indicated a strong desire to have SEAW participate in mentoring and outreach activities while increasing the visibility of our profession. Some of our ongoing initiatives include: developing presentation materials related to structural engineering, identifying subject matter experts, and participating in mentoring at the student level. We have a full slate of activities and are looking for participants from all chapters.

As you can probably tell, I am looking forward to continuing my service to the Seattle Chapter in the coming years. Please feel free to call if you'd like to chat about the organization and the many opportunities available. I trust that you will find active membership a rewarding experience that presents many opportunities for professional and personal development.

*Cale Ash, P.E., S.E., is an Associate Principal at Degenkolb Engineers. Cale is the current Seattle Chapter Vice President, and has been a member of SEAW since 2005. He can be reached via email at [cash@degenkolb.com](mailto:cash@degenkolb.com) or phone at (206)340-8102.*

# Structural Engineers Hall of Fame Project



*Hall of Fame Committee from left: Donald A. Northey, Marga Rose Hancock, Howard S Burton, J. Mark D'Amato*

At the Structural Engineers Foundation of Washington (SEFW) Inaugural Forum in November 2011 featuring Jon Magnusson's presentation, conversations among some attendees about the low level of public knowledge of structural engineers inspired SEAW President Howard Burton and Mark D'Amato to initiate a project aimed at elevating the profiles of notable achievers in the field.

Early on, Howard and Mark enlisted the advice and assistance of Marga Rose Hancock, former Executive Vice President of AIA Seattle who has recently written biographies of design professionals for [www.historylink.org](http://www.historylink.org) including that of John Skilling. SEAW Historian Don Northey and Cale Ash of the SEAW Public Information Committee came

aboard early. The team, as captured in the photo shown here snapped by Mark, has come up with a prototype for an online "Hall of Fame" incorporating lists of individuals recognized by SEAW going back to the 1950 establishment of the organization and also founding benefactors of SEFW—with a plan to link biographical information relevant to honorees' distinguished achievements and contributions to the profession.

The group welcomes review, corrections, and comments on information posted at [www.sites.google.com/site/sehalloffame/](http://www.sites.google.com/site/sehalloffame/). According to Mark D'Amato, "We think of the development of information about the special achievements of Washington structural engineers as an interactive process.

While we have basic material available from statements about honorees published in previous issues of *Equilibrium*, we'd like to invite personal observations about the meaning and effect of what people have done over the years."

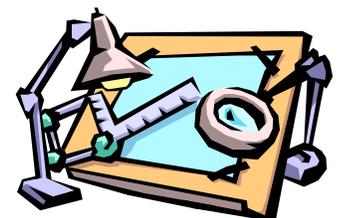
In this year of celebration of the 50<sup>th</sup> anniversary of the Seattle Worlds Fair of 1962 and the origination of Seattle Center, the group has a particular interest in uplifting engineering contributions to the design of such "modern marvels" as the Space Needle, Pacific Science Center, and the Monorail.

Readers may direct materials—resumes of honored individuals, professional references and personal testimonials to mentors and inspiring colleagues recognized by SEAW, and stories of perhaps little-known

"transformative moments" for Washington civil engineering. "We would particularly welcome brief and salient communications about important historical achievements," says Howard Burton.

Please direct written contributions about honored individuals to Marga Rose Hancock [marga@margaink.com](mailto:marga@margaink.com) at any time, most valuably by May 1, 2012.

Stay tuned for further developments and celebrations, possibly including a gathering of previous honorees for recording purposes.



## February Meeting Recap

### -By Gareth Reese

On February 22, the American Concrete Institute of Washington and the Structural Engineers Association of Washington held a joint meeting to review the state of the art in concrete science, and consider future applications of concrete for flagship projects in the Northwest.

To aid in the discussion between researchers, engineers, and concrete suppliers and manufacturers, Andreas Tselebidis with the BASF Corporation presented his résumé of research and design for landmark concrete structures around the world. Mr. Tselebidis, a guest professor at the University of Siegen in Germany, has worked to develop and improve specialized concrete mixes for projects in the Middle East, Europe, Asia, and the Americas. Working with producers and contractors for each project, his role in the material development has been to maximize the workability and sustainability of the concrete product without sacrificing any of the unique properties that make reinforced concrete a favorable building material for both structural applications and architectural finishes.

Beginning his talk with a short history of the develop-

ment of cement as a structural bonding agent for construction, Mr. Tselebidis progressed through the chemical process of hydration to remind the audience of the interactions which can be manipulated on a microscopic level to improve the overall performance of a mix.

Although his presentation was focused towards publicizing his services rather than educating the audience on specific methods used to achieve his results, impressive statistics on those results were cited. The conventional cap on supplementary cementitious materials (SCM) in concrete mixes was stated to be 20% of overall cement content. Mr. Tselebidis reported success with high strength and high SCM content on many high profile projects such as the Burj Dubai Khalifa, the new World Trade Center buildings, and the Shard in London. In several cases, to the surprise of meeting attendees, the SCM contents of these mixes approached 70% while maintaining specified strengths of 14,000 psi.

*Gareth Reese, PE, is a Project Manager at Seattle Structural. Gareth joined SEAW in 2011.*

The SEAW Seattle Chapter *Equilibrium* is published monthly from September through May and is available online at [www.seaw.org](http://www.seaw.org).

Articles, letters, and announcements are accepted by e-mail to [seaw@seaw.org](mailto: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.

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.

## Board Nominees Selected

The Seattle Chapter Nominating Committee has submitted its slate of candidates for the 2012 Board of Directors Election.

Candidates are:

**President:** Cale Ash, Degenkolb Engineers

**Vice President:** Peter Somers, Magnusson Klemencic Associates

**Directors:**

Charlene Hails, MRP Engineering

Steven Pfeiffer, City of Seattle

In accordance with Seattle Chapter bylaws, notice of candidates for office shall be made to the membership in the March newsletter, or by other means, no later than March 10. Additional nominations may be made by petition of at least five (5) Member SEs

when received within 10 days of date of notice.

Elections shall be conducted by letter or electronic ballot. Members shall be given a minimum of 20 days to vote. All elections shall be conducted by the Elections Committee, a Committee of three (3) Members SEs appointed by the President. This Committee shall warrant to the membership the proper conduct of the nomination and the elections in accordance with these bylaws. Officers and Directors of the Chapter shall take office at the regular May meeting of the Board of Directors.

Nominating Committee members: Arne Carson, chair; Andrew McGlenn; Mark D'Amato; John Hooper; Cale Ash; and Howard Burton, advisor.

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[www.pressuregrout.com](http://www.pressuregrout.com)

## YMF Corner

This year our YMF once again staffed a booth at the Engineering Fair hosted by Puget Sound Engineering Council. The fair took place Saturday February 11th at the Museum of Flight. The annual event kicks off National Engineers week. It features booths staffed by engineers and students from various disciplines of engineering.



*Lisette Terry using our homemade shake table to test the seismic stability of a student's bridge.*

As in previous years, we kept kids engaged with marshmallows and pipe cleaners. They enjoyed putting their creativity and structural skills to the test by building structures and testing them on our homemade shake table. We also had an interactive poster with fun facts about some iconic structures around the globe, FEMA pamphlets on earthquake preparedness, and posters featuring photos and information on recent earthquakes.

We had a great turnout this year, both in terms of our wonderful volunteers that helped staff the booth, as well as, a multitude of student visitors of various ages. A mother and her ninth-grade son stopped by to inquire about the

differences between architecture and structural engineering in order to begin looking at majors for college. We also had a lovely pair of girls that came by and built a very wobbly towering structure that quickly toppled when placed on the shake table. After I advised that a broader base might help to stabilize their structure, they quickly got back to work despite their hungry parents' attempt to pry them away for lunch. Their reconfigured structure proved much more resistant to overturning moment and successfully endured the shake table test.

If you missed this opportunity to share your engineering knowledge with a wide range of kids, we'd love your help at the upcoming Science EXPO Day held at the Seattle Center, Saturday June 2<sup>nd</sup>.



*Jenny Ahlport watching students build structures out of marshmallows and pipe cleaners.*

## In Memoriam



**Harvey Robert Dodd**

**Engineer of the Year 1986, SEAW President 1970, SEAW Seattle Chapter President 1968**  
Born in Ft. Supply, OK, March 3, 1922  
Died in Arizona February 10, 2012

Early in his life Harvey excelled in sports as captain of his high school basketball team; later he played basketball and baseball into his 40s and excelled at golf with 5 lifetime holes-in-one. After the attack on Pearl Harbor, Harvey helped as a civilian in salvaging US ships, and then enlisted in the Navy Submarine Service. Assigned to a submarine tender ship, he spent WWII on Midway Island.

He received a degree in civil engineering from UW, later becoming a consulting structural engineer. After five years at the Seattle Building Department, in 1960 he started his own structural firm in Seattle: Harvey R. Dodd & Associates, employing engineers and architects. They designed commercial buildings, apartment buildings, and gas stations and did forensic insurance investigation work, as well as many jobs for the UW. Harvey took part in the building of the Space Needle and the Kingdome. He built an excellent reputation as a hardworking, honest businessman.

For 10 years he served on the State of Washington Board of Registration for Civil Engineers, and also as a member of the National Conference of Engineering Examiners, where he participated in preparing the first National Structural Licensing Exam for Structural Engineers.

### Upcoming YMF Events

- |             |   |
|-------------|---|
| March 13    | Happy Hour, 5:00 PM<br>Jasmine, Downtown Seattle  |
| April 10    | Happy Hour, 5:00 PM<br>Mistral Kitchen, Downtown Seattle  |
| April 18    | Happy Hour, 5:00 PM<br>Palomino, Bellevue, WA   |
| April 26-28 | ASCE's Pacific Northwest Regional Conference co-hosted by the University of Washington and Seattle University |
| May 8       | Happy Hour, 5:00 PM<br>Elephant & Castle, Downtown Seattle  |

### YMF Leadership

**President:**

Natalie Low  
[gatann@gmail.com](mailto:gatann@gmail.com)

**Vice President:**

Jennifer Ahlport  
[Jahlport@degenkolb.com](mailto:Jahlport@degenkolb.com)

**Social Representative:**

Anna Troeh  
[atroeh@gmail.com](mailto:atroeh@gmail.com)

**Past Chair:**

Dan Yeager  
[dyeager@dc-engineers.com](mailto:dyeager@dc-engineers.com)

**Outreach Representative:**

Eric Pope [pope.eric.w@gmail.com](mailto:pope.eric.w@gmail.com)

Created in 2007, 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.

Earn 6 AIA/CES CEHs or PDH credits free



# Wood Solutions Fair

MARCH 13, 2012 • PORTLAND  
Oregon Convention Center

MARCH 15, 2012 • SEATTLE  
Washington State Convention Center

Register at  
[woodworks.org](http://woodworks.org)

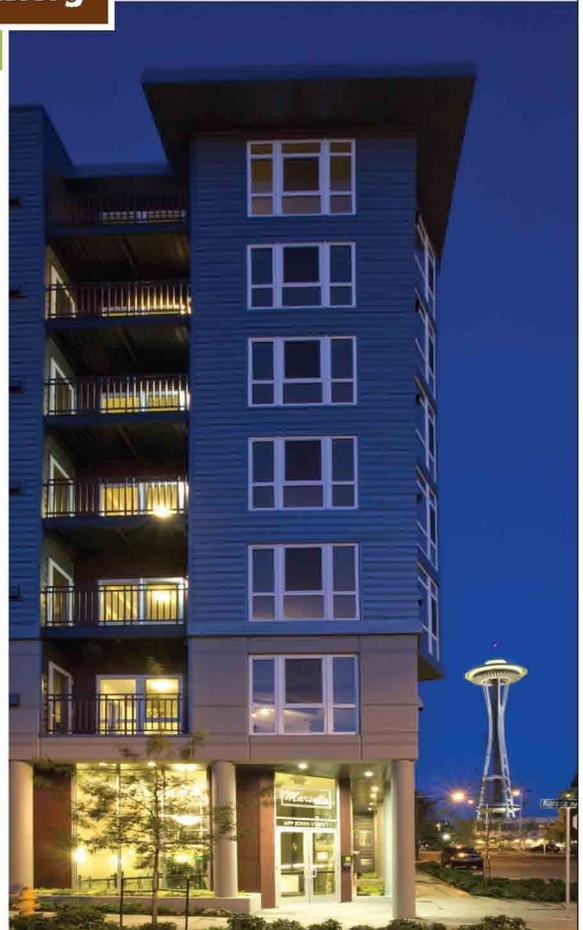


The WoodWorks program has expanded to the Pacific Northwest and will host its first Wood Solutions Fairs on March 13 and 15. WoodWorks provides free architectural and engineering support for non-residential and multi-family wood buildings, and Wood Solutions Fairs are its premier educational event. Combining a full day of seminars with a trade exposition, the Portland and Seattle Fairs will pack an informational punch for anyone interested in wood's exciting design possibilities.

Choose up to six seminars, from topics such as:

- 2012 National Design Specification® for Wood Construction
- Adventures in Engineering – Designing the Iconic Metropol Parasol
- Five-story Type V Wood Buildings in the Pacific Northwest
- The Bullitt Center – Meeting the Living Building Challenge
- Full-scale Shear Wall Tests for Forced Transfer Around Openings
- Ensuring In-service Wood Performance – An Engineer's Perspective
- What Forest Certification Means to Your Next Building Project

Attendance is free and a complimentary lunch will be provided. For information and to register, **visit [woodworks.org](http://woodworks.org)**.



WoodWorks is an approved AIA provider.

Credits: (top) Metropol Parasol, Jürgen Mayer H and Arup, photo Hufton & Crow; (bottom) Marselle Condominium, PB Architects, photo Matt Todd

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

# Meetings, Seminars and Announcements

## ASCE's Pacific Northwest Regional Conference (PNWRC)

Engineering students from around the region participate in this annual event, which features various presentations and competitions, most notably, the Steel Bridge and Concrete Canoe competitions. The 38th annual conference will be held April 26 to 28, 2012, here in Seattle and co-hosted by both Seattle University and the University of Washington. Winners of this competition then go on to compete at the National Conference, which will be held June 14 to 16, 2012, at the University of Nevada, Reno.

Currently, UW and SU are in fundraising mode for the event. Their projected costs are around \$60,000, which will cover facility rentals, equipment, food, awards, and various other necessities. Sponsorship offers companies a great opportunity to gain exposure to students, as contributions are acknowledged through various means of marketing based on contribution level. For more information or to make a contribution, please contact Fundraising Co-Chairs Fawm Saefong [tinys-fong2000@yahoo.com](mailto:tinys-fong2000@yahoo.com) or Sherry Kim [kimsherr@uw.edu](mailto:kimsherr@uw.edu).

Judges and volunteers will also be needed for the conference. If you're interested in helping out, please contact Volunteer Coordinator Amanda Neice at [amanda.neice@gmail.com](mailto:amanda.neice@gmail.com) or Judges Coordinator Nina Mao [ninamqx@gmail.com](mailto:ninamqx@gmail.com).



## ASCE Sixth Forensic Engineering Congress

ASCE's Technical Council on Forensic Engineering is preparing the 6<sup>th</sup> Forensic Engineering Congress; it will take place from October 31<sup>st</sup> through

November 3<sup>rd</sup> 2012, in San Francisco, California, at the Hyatt Regency Hotel in the Embarcadero area.

Washington's structural and civil engineers are encouraged to attend the Congress and to consider contributing a paper.

Please visit the Congress website at the following link:

<http://content.asce.org/conferences/forensics2012/index.html>

The deadline for abstracts was January 18, 2012 and the draft paper deadline is April 25, 2012.



## Judges Needed for WTSA State Conference

The Washington Technology Student Association is a non-profit, nationally recognized student leadership organization for Technology Education & Pre-Engineering programs at the middle and high school level in Washington State. With an emphasis on science, technology, engineering, and math we combine competitions that allow middle and high school students to demonstrate their technical and leadership skills with leadership and employability training.

Our goal is to allow our nearly 4,000 student members to connect their academic skills with real-world experiences through hands-on training, while at the same time allowing them to explore the career opportunities available to them.

We are currently seeking individuals interested in helping us to judge at our state conference on March 22-24, 2012, at the Bellevue Hilton. We offer over 50 competitive events at the middle and high school level.

These contests cover the areas of engineering, manufacturing,

architecture, construction, video production, music production, graphics design & desktop publishing, electronic game design, photography, technical writing, public speaking, job interview, and other general leadership areas for which we are looking for judges.

We would greatly appreciate any help that you could give us. Most of the contests will be held on March 23<sup>rd</sup> at the Bellevue Hilton.

You can find a complete list of our high school competitive events at: <http://www.washingtontsa.org/images/docs/compevents/hsevents.pdf> and our middle school events at: <http://www.washingtontsa.org/images/docs/compevents/msevents.pdf>



## NCSEA Structural Engineers Volunteer Roster for Disaster Response

NCSEA is pleased to announce the development of a web-based database to make it easier to contact structural engineers for assessments following a disaster. Please click on this link to add your name and pertinent information to this system, so that you can receive timely updates regarding training, SEER program developments, and deployment opportunities, following natural and man-made disasters.

<http://www.ncsea-seer.com/>



## NCSEA announces new edition of SEER Manual

The latest edition of the SEER Manual, brought to you by the NCSEA and the Structural Engineer Emergency Response (SEER) Committee is now available online. [Click here to download the manual.](#)

This updated manual provides a uniform framework for emergency response engineers, so that responders from different areas of the country will be able to uniformly assist, without having to learn/relearn assessment protocols and procedures.



## A FEW GOOD ENGINEERS NEEDED!

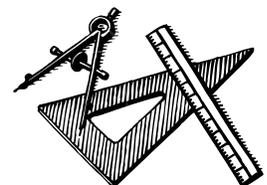
Bellevue College will be hosting the Third Annual Central Sound Regional Science and Engineering Fair on **Saturday March 10, 2012**. We are affiliated with the Intel International Science and Engineering Fair program, and this is the only ISEF-affiliated fair for high school students in King and Snohomish Counties. Prizes will be awarded in several science and engineering categories. We are in the process of recruiting judges across the spectrum of disciplines, and would be thrilled to add some more qualified engineers (especially mechanical and electrical) to our ranks! All judges will receive a free breakfast and lunch, have a great time meeting and working with the other judges, and most of all, will have the opportunity to hear from and provide feedback on the early work of many young scientists and engineers!

Information on the fair and an online registration form for judges can be found at:

<http://www.bellevuecollege.edu/sciencefair/>

Thank you for your time!

Kent Short  
Bellevue College Faculty  
CSRSEF 2012 Head Judge





## **Be a Judge or Volunteer for the 2012 Concrete Canoe or Steel Bridge Regional Competition!**

**TIME:** April 27 – 29, 2012.

**HOSTS:** University of Washington & Seattle University

**LOCATION:** UW Campus and Magnusson Lake

**NUMBER OF JUDGES:** Total of 8 for Steel Bridge; 1 being the head judge  
Total of 5 for Concrete Canoe; 1 being the head judge  
(Licensed Professional Engineers are preferred, but **NOT** required)

**RESPONSIBILITIES:** Attend judge's meetings  
Be familiar with the rules and regulations for competition  
Judge the Conference Competition in a fair manner  
Handle appeals that may take place  
Determine the Conference winners

**TIME EXPECTATIONS:** Expect to spend at least 5 hours on April 27 & 28

**VOLUNTEERS:** We are also looking for volunteers! This is a large operation and all/any help is appreciated!  
Volunteering opportunities include helping with registration, food events, and general Conference competition events! Time commitment is up to availability.  
Without volunteers this Conference won't happen!

*Please contact Kelsey Price at [kelseyrose6@gmail.com](mailto:kelseyrose6@gmail.com) if interested.*

## SeattleJapanRelief.org Coalition to Hold community Event to Remember Japan Tsunami Disaster and Promote Preparedness.



SeattleJapanRelief.org and the Consulate General of Japan in Seattle will hold a special community event on Sunday, March 11, 2012, from 10:00 a.m. to 3:00 p.m. at the Seattle Center's Kobe Bell and north lawn area by the Seattle Fountain and the Fisher Pavilion. The event, held on the one-year anniversary of the Great East Japan Earthquake will focus on three themes: remembrance, preparedness, and rebuilding.

The program will begin with a short opening ceremony at the Fisher Pavilion at 10:00 a.m., and will feature musical performances by singer Fumi Tagata and koto ensemble Silk Strings.

From 10:40 a.m. to 2:00 p.m. at the Fisher Pavilion, there will be exhibits and presentations by local and national emergency management authorities and non-profit preparedness groups about both work in Japan following last year's disaster, and also how to be more prepared for a major natural disaster in the Pacific Northwest. Attendees can also learn about ways to continue to support Japan as it recovers. The Consulate-General of Japan will be showing the film, *Ganbappe Hula Girls!* From 12:00 p.m., a film on the disaster, recovery, and rebuilding process in Japan, and will have an exhibi-

tion of photographs and messages from children from the Tohoku Area.

The event will close with a memorial ceremony held at the Kobe Bell, where the victims of The Great East Japan Earthquake will be remembered. Following remarks by elected officials, and a short Buddhist ceremony honoring the victims, the public will have an opportunity to ring the Kobe Bell. A moment of silence will be observed at 2:46 p.m., which corresponds to the time of the disaster in Japan on March 11, 2011.

The Kobe Bell is a gift from Seattle's oldest sister city of Kobe, Japan, given in 1962 in honor of the World's Fair. The Kobe Bell has been a gathering place for Seattleites to remember the Kobe earthquake disaster of 1995 for the past seventeen years.

SeattleJapanRelief.org began as a collaboration of Japanese American and Japan related groups that has grown into a diverse ranges of businesses, organizations and community groups standing together to promote relief and recovery following the devastating earthquake and tsunami in Japan. Coalition groups have collectively raised over \$250,000 dollars and donated those funds through our charity partners.

Confirmed exhibitors at this

March 11th event include: The Consulate General of Japan, Peace Winds America, Red Cross, the YMCA of Greater Seattle, and the City of Seattle Office of Emergency Management and the SEAW Disaster Preparedness and Response Committee/Tokohu Earthquake Reconnaissance Team.

For more information or to get

involved, visit: [www.seattlejapanrelief.org](http://www.seattlejapanrelief.org) or contact [seattlejapanrelief@hyogobcc.org](mailto:seattlejapanrelief@hyogobcc.org)

For a list of the coalition members of SeattleJapanRelief, visit <http://seattlejapanrelief.org/coalition>.

This event is generously sponsored by Seattle Center.

It is time to get this on your calendars  
SEAO Proudly Presents!!!

SHAKE IT UP AGAIN  
GAMBLING WITH SEISMIC VULNERABILITY

URM  
WOOD  
STP&L  
CMU

SEA NORTHWEST CONFERENCE  
JULY 26-28, 2012  
KAH-NEE-TA HIGH DESERT RESORT  
WARM SPRINGS, OREGON

Check out the attached Video from Youtube on the Resort. <http://youtu.be/1XvERNUwaf8>

The poster features a black background with white text and graphics. At the top, it says "SHAKE IT UP AGAIN" in large white letters, followed by "GAMBLING WITH SEISMIC VULNERABILITY" in smaller white letters. Below this, there are several playing cards and dice. One card is labeled "URM", another "WOOD", and two others "STP&L" and "CMU". There are also two red dice. At the bottom, it says "SEA NORTHWEST CONFERENCE" in white letters, followed by "JULY 26-28, 2012", "KAH-NEE-TA HIGH DESERT RESORT", and "WARM SPRINGS, OREGON". At the very bottom, there is a small line of text: "Check out the attached Video from Youtube on the Resort. http://youtu.be/1XvERNUwaf8".

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- Al Truss, President, Fountainhead Group Consulting, Ltd.  
BillQuick user

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**Hendricks Consulting LLC**  
2601 Airport Drive, Suite 380  
Los Angeles, CA 90505  
Tel: (555) 555-1212 Fax: (555) 555-2121  
admin@hendricks\_consulting.com  
www.hendricks\_consulting.com

Invoice Date	Invoice Num
Feb 1, 2011	1120
Billing From	Billing To
Jan 01, 2011	Jan 31, 2011

Ms. Rhonda Marie  
Factor Foundation  
39 Boysenberry Street  
Fruitvale, CA 96500

Project ID: 11-LBH:  
Project Name: Long Beach Harbor  
Manager: MK

### Invoice

Phase	Phase Description	Contract Amount	% Complete	Prior Billings	This Invoice
11-LBH-01SD	Schematic Design	\$8,000.00	50%	\$0.00	\$4,000.00
11-LBH-02DD	Design Development	\$4,000.00	30%	\$0.00	\$1,200.00
11-LBH-03CD	Construction Documents	\$16,000.00	10%	\$0.00	\$1,600.00
11-LBH-04CA	Construction Administration	\$12,000.00	5%	\$0.00	\$600.00
<b>TOTALS:</b>		<u>\$40,000.00</u>		<u>\$0.00</u>	<u>\$7,400.00</u>

**Consultant Fees:**

Description	Date	Units	Cost	Amount
Structural Engineer Progress #1	1/5/2011	1.00	\$8,000.00	\$8,000.00
			<b>TOTAL:</b>	<u>\$8,000.00</u>

**Reimbursable Expenses**

Fedex	1/4/2011	1.00	\$29.00	\$29.00
			<b>TOTAL:</b>	<u>\$29.00</u>

Total Amount Due: \$15,429.00

This Invoice is due upon receipt

Account Summary		
Billed To Date	Paid To Date	Balance Due
\$15,429.00	\$0.00	\$15,429.00

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# Employment Opportunities

## Structural Engineers

**Lund Wright Opsahl Structural Engineering (LWO)**, a new company formed from three established structural engineering firms, has two immediate openings for structural engineers.

### Senior Structural Engineer

The ideal candidate will have six to ten years experience in new building design – work on existing buildings is a plus; an SE or the ability to get an SE via comity preferred. This individual will be comfortable taking the technical lead on projects, providing guidance to staff engineers; salary DOE. This is a permanent, full-time position.

### Design Level Structural Engineer

The ideal candidate will have four to six years experience in new building design – work on existing buildings is a plus; a PE preferred. This individual will work well in a team environment; salary DOE. This is a permanent, full-time position.

Please send your resumes, salary requirements and references to: Lund Wright Opsahl Structural Engineering, 1201 1<sup>st</sup> Ave. S., #310, Seattle, WA 98134 or email to [info@lwo-se.com](mailto:info@lwo-se.com).

## Structural Engineer

**DCI Engineers** seeks qualified applicants for structural engineering positions with 3+ years experience in industrial and structural steel design. Strong communication skills and the ability to work within a fast paced team environment are a must. DCI Engineers is an energetic, dynamic, and highly motivated group of professionals and provides great opportunities in career development and growth.

Please email your cover letter and resume to [resumes@dc-engineers.com](mailto:resumes@dc-engineers.com).

## Engineering Manager

Technical Glass Products is looking to hire an Engineering Manager. The Engineering Manager will provide policy and leadership for the Engineering Department. The manager will independently guide and direct the engineering function in a proactive manner in all facets of the department; this will include project engineering, design for manufacturing engineering, production support, product documentation, infrastructure design, policy conformance, cost control, training, budget management and staff development. This position may also lend support to test engineering and research and development engineering. The manager will work closely with other internal departments to ensure that the company's finished products meet our customers' expectations of superior quality and on time delivery.

Bachelors degree in engineering strongly preferred, especially mechanical engineering, or equivalent education. Minimum ten years of related engineering experience in manufacturing, product development, project management, work flow, and resource planning. Compensation: DOE, Generous benefit package includes excellent health care, 401k, bonus and profit sharing. Please forward all resumes via e-mail to [personnel@fireglass.com](mailto:personnel@fireglass.com) or mail them to 8107 Bracken Pl SE, Snoqualmie WA 98065, Attention: Human Resources. No calls.

## Project Structural Engineer

**TaylorTeter Partnership** is seeking a Project Structural Engineer in its Visalia, California office, who is responsible for the structural design and preparation of numerical analysis, construction drawings, and technical specifications. A minimum of 4 years experience and licensed CA Professional Engineer is required. Licensed

Structural Engineer preferred. Must have experience in the private/commercial/industrial sector.

**RESPONSIBILITIES:** Establish structural design criteria; Prepare work plan for structural portion of project that integrates with overall work plan; Perform within project timeline and project budget; Select structural system compatible with building type; Prepare structural analysis or coordinate analysis and drawings; Coordination of structural details; QA of calculations/drawings prepared by others; Respond to plan check items; Prepare Addenda, Field or Change Orders.

**COMPENSATION:** Commensurate with experience, competitive. Health and dental plan take effect the 1st of the month following the date of employment. Retirement plan (401k) eligibility and Engineering Registration Exam fee reimbursement per company policy. Annual bonuses, when conditions allow, are provided based upon performance during the prior year.

Interested candidates should submit a cover letter, current resume, and samples of relevant professional work in a single pdf (no larger than 7mb) to [human.resources@taylor-teter.com](mailto:human.resources@taylor-teter.com).

## Senior Level Engineer

**Seattle Structural** is looking for a licensed SE with a minimum of 6 years of experience to help lead this growing firm located in downtown Seattle. This is a great opportunity to work on a variety of private, institutional, healthcare, educational and commercial projects both domestically and internationally.

Candidates must have experience in all building types. Experience in wood, steel and concrete buildings, lateral analysis, deep founda-

tions and marine projects desired. The ideal candidate will have excellent communication and technical skills, the ability to lead other engineers, manage multiple projects and a commitment to quality client service. Big-firm experience would be a plus.

We offer a competitive salary and a variety of benefits including medical, retirement and many more.

Please address inquiries to:

Howard Burton, President,  
Seattle Structural PS Inc.  
1420 Fifth Avenue, Suite 425  
Seattle, WA 98101  
Phone: (206) 343-3000  
Fax: (206) 343-3013  
[HBurton@SeattleStructural.com](mailto:HBurton@SeattleStructural.com)



## \$3,000 Structural Engineering Scholarship

SEAW is offering a \$3,000 scholarship to a current college or university student 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; and having a commitment to making a career in the practice of structural engineering.

Scholarship application materials are posted on the web at [www.seaw.org](http://www.seaw.org), and can be obtained by e-mailing [seaw@seaw.org](mailto:seaw@seaw.org) or by phoning 206/682-6026.

Application deadline for the 2012 award is March 31.



**STRUCTURAL ENGINEERS ASSOCIATION  
of WASHINGTON • Seattle Chapter**

PO Box 44 • Olympia WA 98507 • 206/682-6026 • [www.seaw.org](http://www.seaw.org)

**Seattle Chapter Committees & Chairs**

House/Program	Peter Opsahl
Refresher Course	Mark Moorlegghen
Membership	Cheryl Burwell
Newsletter	Lynnell Brunswig
Presentations/Awards	Howard Burton
Engineer of the Year	Ed Huston
Governance	Howard Burton
Committee Oversight	open
YMF	Natalie Low

**Statewide Committees & Chairs**

Code Advisory	John Hooper
Earthquake Engineering	Tom Xia
Building Engineering	Scott Beard
Existing Buildings	Peter Somers
Professional Practices	John Tawresey
Wind Engineering	open
Exam Liaison	Ed Huston

Scholarship	Bill Mooseker
Legislation	open
Education	Mike Wright (interim)
Finance & Auditing	Ted Smith
Disaster Prep/Response	Paul Brallier
Public Information	Cale Ash
Sustainability	Marjorie Lund
Snow Load	John Tate
SEAW Historian	Don Northey

For Committee contact information, visit [www.seaw.org](http://www.seaw.org) and click the Committee page

**SEAW Calendar**

**MARCH, 2012**

Monday	12th	Electronic Board Election (Results by 4/20/12)
Tuesday	13th	YMF Happy Hour, 5:00 PM Jasmine, Downtown Seattle
Wed	14th	Seattle Chapter/ASCE Joint Meeting ASCE Hosts at Mayflower Park Hotel  Seattle Chapter Board Strategic Planning Meeting 3:00 PM at Mayflower Park Hotel
Tuesday	20th	April Newsletter Deadline From the Board: Steve Dill
Tuesday	27th	Chapter Board Meeting - Noon
Friday	30th	State Board Meeting

**APRIL, 2012**

*****		Engineer of the Year selection President's Awards & Honorary Member Selection
*****		Selection of Scholarship winner(s) ST Scholarship Committee/SEF
Tuesday	10th	YMF Happy Hour 5:00 PM Mistral Kitchen, Downtown Seattle
Wed	18th	YMF Happy Hour 5:00 PM Palomino, Bellevue
Friday	20th	May Newsletter From the Board: Andrew McGlenn
Friday	20th	Seattle Chapter Elections Close
Tuesday	24th	Seattle Chapter Board Meeting Seattle Chapter Dinner Meeting Election results announced at meeting.
Thurs- Sat	26th-28th	YMF Involvement in ASCE PNW Conference co-sponsored by UW & SU

**Membership**

**Membership Applications**

**Kevin Borth**  
Magnusson Klemencic Associates Inc  
License: SE, WA  
Class: Member SE

**Kolby Burke**  
KPF Consulting Engineers  
License: EIT, WA  
Class: Associate

**Applications Accepted**

Albert Engel, Associate  
Miranda Hagadorn, Associate  
Kristina Hammer, Associate  
Ardel Jala, Member PE  
Joel Kipple, Member PE  
Matthew Koch, Member PE  
Bruce Wellenbrink, Member SE  
Irina Wong, Affiliate

**Membership Classification Changes**

Craig Houghton – Life Member  
Oscar Velikin – Life Member  
Ella Garber – LOA  
Andrea Turnbull – LOA  
Bret IR Brasher – LOA  
Tim Nordstrom – Member SE  
Ryan Morgan – Member SE  
William Williams – Member SE  
Kai Ki Mow – Member SE

**Dues Invoiced in January**

**INSTRUCTIONS FOR PAYING YOUR DUES ONLINE:**

1. Go to [www.seaw.org](http://www.seaw.org) and Log in to the member area (Default login name is your email address; password is your first name.)
2. Click on "My Membership" in the menu bar
3. Select "Membership Renewal" in the gray menu bar to see if there is an outstanding invoice.
4. Select the invoice and Follow the prompts to pay your dues online using your VISA or Mastercard.
5. When your payment has been made, you will receive an automated receipt by email.