



# STATEWIDE EQUILIBRIUM

annual summer newsletter of the  
Structural Engineers Association of Washington

**SUMMER, 2009**

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## SEAW Statewide President 2009—2010

Summer is upon us again with its warm temperatures and sunshine. Just a few short months ago the Inland Northwest was buried under record snowfalls. In Spokane, records were set for snowfall in the month of December and for snowfall in a 24-hour period. Schools and businesses were closed as people simply could not get around town. Numerous buildings either collapsed or were damaged under the weight of the snow. Most of the structural engineers in the area were busy responding to calls from building owners, either to investigate collapsed structures or to assess whether it was safe to occupy their buildings.

Much of the coverage in the local media focused on whether the public should be removing snow from their roofs. Most reports included pictures of collapsed structures and first-hand accounts of events leading up to the collapse. New roof shoveling businesses sprouted up daily. As a result of all this coverage, people in our community were very concerned about the safety of their buildings and homes. As part of the media blitz, a number of structural engineers were interviewed for their insights on the heavy snows and the ability of structures to carry these loads. I was interviewed by a newspaper reporter who asked if I had shoveled the roof of my own house. When I told him, "no", he chuckled. When I inquired why he was amused, he stated that none of the structural engineers he had interviewed had shoveled their roofs,



Robert Graper  
2009-2010 SEAW Statewide President

while all of the building officials and architects he had spoken with had shoveled their roofs. It became increasingly apparent that people were acting on emotion rather than reason.

With snow continuing to fall, our Chapter felt it was prudent to make a public statement to provide rational, useful information to building officials and building owners. We drafted a statement outlining a list of signs building owners could look for indicating that their roofs were highly stressed and actions they could take to better maintain their buildings, and issued this statement to local media and building officials. The building officials were grateful for our organization's input. A day or two later, a warming trend hit the area and the crisis subsided.

In January, we held an open forum at our monthly meeting.

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The SEAW Statewide *Equilibrium* is printed annually in July. Circulation by mail and email is approximately 960 members and related organizations. Articles, letters, and announcements are accepted through the SEAW office at the address below. Except where noted, opinions expressed in this newsletter reflect those of the author only and do not reflect or represent the position of SEAW. Portions of this newsletter may be reproduced provided credit is given.

## Outgoing President's Message

### The Year in Review

I have to admit, it has been amazing to see how quickly the world of structural engineering has changed over the course of the last year. Articles in engineering magazines have switched from subjects aimed at firm owners and senior staff like "How to Recruit and Retain Staff" to suggestions on ways for younger engineers to distinguish themselves in the now saturated (and much more competitive) structural engineering workplace. Without harping on our current economic woes, I'd like to point out that most of the articles I have recently



Andrew McEachern  
2008-2009 SEAW State President

seen recommend participation in an engineering organization as an easy means of demonstrating your commitment to the practice of structural engineering, and your career. Re-

organizations such as Habitat for Humanity. Let others know why we love what we do. As we share our expertise and our energy, we will undoubtedly elevate the status of structural engineering in the eyes of the public; but perhaps more importantly we will show that we are genuinely interested and engaged in our communities.

I look forward to serving the members of the Structural Engineers Association of Washington this year as State President, and encourage you to get involved in both SEAW and your community.

-Rob Graper  
rgraper@integrus.net

*Rob Graper is a Senior Structural Engineer and Project Manager for Integrus Architecture. He has 23 years of professional experience, including the design of K-12 schools, Higher Education Facilities, Correction Facilities, and Government Buildings. Rob graduated from the University of Texas at Austin with a Bachelor of Science in Civil Engineering in 1985.*

ardless of your level of experience, SEAW is an excellent place to network with other engineers, as well as give back to your profession. SEAW Chapters are always looking for assistance on the various boards and committees—participation on which I have found is a very easy method for meeting principals and senior engineers from many of the structural engineering firms in our region. SEAW participation is not limited to licensed structural engineers, and does not necessarily mean hours of effort every month. In addition to the networking benefit, I have also found that board and committee meetings always provide great insight into the decisions that go into code development, as well as

code intent. I can say that my own experience serving on both the Southwest Chapter Board as well as the State Board has been a great time, and has broadened my understanding of our profession. The typical Board commitment involves around 2 hours of time each month, 8 months out of the year (most of the time involved is attendance at Board meetings). Based on my own personal experience (and the number of talented, dedicated people I have met over the last couple of years), I cannot recommend highly enough volunteering your time to help with SEAW.

Drew McEachern, PE, SE  
Project Manager, AHBL Inc.  
[dmceachern@ahbl.com](mailto:dmceachern@ahbl.com)

### State SEAW President

(Continued from page 1)

Both our members and local building officials participated in a discussion of snow related observations and opinions. With the cooperation of local building officials, our Snow Load Committee is currently preparing a white paper to explore the multitude of building failures in the region. Our goal is to find commonalities in the types of failures to allow us to improve our design and construction practices in the Inland Northwest.

I share this series of events not to toot our Chapter's horn, but rather to point out that we as structural engineers have the opportunity to be involved in our communities. Our heavy snowfall was an extreme situation, but one which volunteers in our organization were able to utilize to build trust with those in the local building departments and the community at large. Make your community a better place. Consider volunteering at a local school, a mentoring program, a civic group, or

## Call for Nominations: SEAW LIFETIME SERVICE AWARD

Nominations for the SEAW Lifetime Service award may be made by any SEAW member to the State Board of Trustees by November 1st of each year. Qualifications of a nominee include: SEAW Member; service to SEAW on a Statewide level; Sustained, significant, multiple contributions; committee service; nurturing/mentoring abilities. The award may be made posthumously.

If nominations have been submitted, the SEAW State Board will convene a selection panel consisting of the four most recent awardees (if possible) and a representative of each chapter to meet prior to the January State Board meeting.

The Award will be presented at the appropriate chapter's year-end meeting or at the Northwest Conference. The award will consist of a unique trophy/plaque, a cash award, and a contribution in the awardee's name to the SEAW Endowment Fund.

**Send your nomination by e-mail to the SEAW State Board of Trustees at [seaw@seaw.org](mailto:seaw@seaw.org).**

# Scholarships Awarded to Three Candidates

This spring, three applicants were chosen out of a field of fourteen to receive a 2009 SEAW Scholarship. The successful candidates are Janette Siu, Nathan Canney, and Natalie Countiss.

**Janette Siu** just completed her Senior year at Case Western Reserve University where she received her Bachelor of Science degree in Structural Engineering. She will return in the fall to pursue her Masters Degree. In addition to participating in many student activities including serving as vocal director for the Footlighters Musical Theater Club, Janette is a member of Tau Beta Pi engineering honor society, Society of Women Engineers, and ASCE. Her on-campus employment history includes SAGES Peer Writing Crew Blog & Guide Editor and Instructor; and Supplemental Instructor for CHEM 111—Principles of Chemistry for Engineers.



In her application, Janette wrote, "As a structural engineer, I will add to the beauty of our society by working with architects to produce aesthetically pleasing designs that also serve a practical purpose."



**Nathan Canney** attended Seattle University where he earned B.S. degrees in Civil Engineering and Mathematics, graduating in June of 2006. He is pursuing his Masters in Structural Engineering at Stanford University. Nathan is a member

of ASCE, and was involved with Seattle University Calcutta Club, Seattle University SEARCH Retreat Committee, and Campus Ministry. He also spent three months volunteering in Kolkata, India through Mother Teresa's Missionaries of Charity, and a spring break immersion trip volunteering at an orphanage in Belize.

Nathan participated in a summer internship program through the Pacific Earthquake Engineering Research Institute at UW, studying concentric braced frames under cyclic loading. He also conducted research in applied mathematics for three years, attending and presenting at many conferences, and publishing a technical paper.

"Service to my community, the drive to continually learn and the creative process of design is what motivates me to want to be an engineer. As a structural engineer, I will be in a privileged place to provide a safe environment for my community."

**Anatalie (Natalie) Countiss** received her BSCE from the University of Washington in June 2009 and will be going on to pursue her Masters degree. Previously, she attended Olympic College in Bremerton, receiving an A.A.S. degree in June of 2005. She served as ASCE Student Chapter Secretary in 2008-09, is a member of Chi Epsilon Engineering Honor Society, the UW Steel Bridge Design Team, and Engineers without Borders UW Student Chapter. Natalie joined SEAW as a student member in 2008. She served as volunteer leader for the 2008 Engineering Open House at the University of Washington, and is a member of Rainbow Girls, a community service and leadership organization whose members volunteer at local events, hospitals, and charities. Natalie is a black belt in karate, with 14 years' experience. She has worked as a structural engineering intern at the Port of Seattle, and currently at Reid Middleton.



"I want to learn as much as I can to be a prepared and knowledgeable practicing structural engineer. After I acquire a Masters degree in Structural Engineering, I would like to work my way up in a consulting firm, while significantly contributing to the community. Ultimately, I hope to open my own structural engineering firm. At this level, I would be proud to represent women in the engineering field."



## SEAW SCHOLARSHIP APPLICATION INFORMATION

Each December, announcements of the SEAW Scholarship program are distributed to Engineering schools in the Western United States. Applicants must be U.S. citizens and residents of Washington State; a senior or higher ranking undergraduate or a 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.

## SEAW Scholarship Fund Contribution

Please copy this form and send it with your contribution by mail to SEAW, PO Box 44, Olympia WA 98507. Credit card payments may be faxed to SEAW at 360/753-1838

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# Annual Chapter Reports

## Seattle Chapter

Departing from the Board after serving their terms are Past President Shelley Clark and Board Members Phil Brazil and Dennis Pradere.

Incoming President is Peter Opsahl and our new Vice President is Andrew McGlenn. Newly elected board members Cheryl Burwell and Tom Bykonen will join existing board members Mark Moorleghen and Howard Burton, who will be serving the last year of their two year term, along with the new YMF President Jessica Jenness as a non-voting board member.

### Younger Member Forum (YMF)

The YMF had a very active year, including monthly happy hours, organization and participation of the SEAW booth at the PSEC (Puget Sound Engineering Council's (PSEC) Engineering Fair, a site tour of the Bravern Project, and outreach programs including lunches at University of Washington and Seattle University to introduce students to the SEAW organization. Melissa White served as YMF President and actively participated as a non-voting member of the Chapter Board. Jessica Jenness served as Vice-President, Shawn Roberge as Outreach Representative, and Robyn Lee as Social Representative. Election of officers was recently held, with Jessica Jenness elected as President and who will represent YMF as a non-voting chapter board member, Dan Yeager as Vice President, Robyn Yang as Outreach Representative, and Jack Lee as Social Representative.

### Activities

After experimenting last year with lunch meetings, it was decided to go exclusively with dinner meetings at the same location every month. Dinner topics included the Bravern Project, Fifth and Yesler Building, I-405 Freeway Project, and the Burj Dubai Tower, where 144 were in attendance and others on a waiting list. Chapter participation in the state committees continues to be very strong, with Tom Xia taking over as the Chair of the Earthquake Engineering Committee, Matt Toton as chair of the Legislative Committee, and Peter

Somers as chair of the Existing Building Committee. Attendance at the fall Existing Building Seminar was very good, with over 120 attendees.

### Membership

Membership increased from 629 to 669 at the end of the year. Membership levels are slightly below last year's with paid dues currently at 75 percent (vs. 77 percent) and 20 new members and 24 cancellations since the beginning of the year. The Chapter Board is considering options to encourage unemployed members to continue their membership.

### Upcoming Events

Promoting attendance at Chapter meetings with invigorating topics and affordable costs will be a top priority. The Chapter also looks forward to actively participating in this fall's Northwest Conference and bringing about a Spring 2010 educational seminar.

-Scott Douglas,  
Outgoing President  
[sdouglas@dcj-engineers.com](mailto:sdouglas@dcj-engineers.com)

## Southwest Chapter

This 2008 – 2009 SEAW SW Chapter Board year has gone by quickly, with many opportunities for learning and rubbing elbows with our friends, peers and fellow professionals:

September: Joint ASCE meeting; Lincoln Avenue Grade Separation Project, Trevor Thornsely, P.E. and Chuck Spry, P.E., S.E.

October: Basalite Concrete Block Manufacturing Plant Tour

November: Joint CSI meeting; Permitting Made Easy - Lacey

January: Seismic Rehabilitation of Existing Buildings, Cale Ash and Chad Taylor

February: Snow Load revisions – John Tate, SE

March: ATC-20 Training

April meeting: Joint with Seattle Chapter SEAW – Fifth & Yesler Building, Greg Schindler, PE, SE, KPFF and David M. Cotton, PE, Kleinfelder Inc

May: Joint AIA meeting.

Not to mention the hours the board has put into planning next Fall's (September 24 & 25) NW Conference which will occur here in Tacoma. **Your corporate and individual participation is greatly encouraged!**

A special word of thanks to the current board members for their time of service:

Andrew McEachern, AHBL, Past President; Andy Pflueger, AHBL, Treasurer; Dan Sully, City of Tacoma, Secretary; Sara Imbruglio, PCS Structural Solutions, Non Voting Board; Todd Phillips, Anderson-Peyton Structural Engineers, Board member; Wes Neeley, PCS Structural Solutions, Board member.

**An extra special mention of thanks to our departing Executive Secretary, Sarah Middleton** and to our incoming Executive Secretary, Ha Pham. Sarah has done a wonderful job for many years and we thank you again Sarah!!!

In summary, many opportunities to learn and to serve our profession were available. Hopefully all of you had a chance to be involved. **It only happens if you care and take the time to be involved!**

We all will get a chance to serve during the SEAW NW Conference this September 24 and 25 in Tacoma at the Murano Hotel.

I'm looking forward to another great year for SEAW – SW Chapter.

Off the grid and thanks to all,

-Mark Anderson, PE, SE  
Outgoing President  
[manderson@anderson-peyton.com](mailto:manderson@anderson-peyton.com)

## Spokane Chapter

The Spokane Chapter had another great year. Our lunch meetings continue to be well attended, with 50-70% of our membership attending the meetings. Our lunch programs this year included:

September - Site Cast Tilt-Up Construction by John and Shane Miller (Divcon)

October - Designing in Steel by Brian Miller (AISC)

November - Useful tools for Geotechnical Evaluation by John Finnegan (Budinger)

January - Open Forum Discussion on Recent Snow Event

February - Structure Failures by Richard Dethlefs (Wiss, Janney, Elstner Assoc.)

March - Economy and Constructability by Jim Fullerton (CRSI)

April - Specialty Long Span Roof and Floor Decks by Michael Winkleman (Epic Metals)

May - Girder Slab System – Steel & Precast Hybrid by Daniel Fisher (Girder-Slab Tech.)

We experienced an extreme winter this year in the Inland Northwest and numerous buildings collapsed. Records were set for snowfall in the month of December and in a 24 hour period in the Spokane area. Most of the structural engineers in the region were heavily involved in examining damaged or collapsed structures. At the height of the event, media attention on roof snow loads was intense. Our Chapter issued a Public Information Statement to both media outlets and local Building Officials to provide rational, useful information to Building Officials and building owners. This information was well received.

We have formed a new Snow Load Committee and are currently working on a white paper to explore the various building failures. Our goal is to find commonalities in the types of failures, to allow us to improve our design and construction practices in the Inland Northwest. We have the full support of our local Building Officials in this effort.

### Membership

Our current membership consists of 10 Life Members, 30 Members, 41 Professional Associates, 14 Associates, and 4 Affiliates. Our total membership is at 99, down slightly from last year (106).

### Seminars

Practical Approaches to the Re-

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## Annual Chapter Reports, cont'd

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habilitation of Existing Buildings – November 20th, and

Seismic Connections/Manual: Practical Applications of the 2005 AISC Seismic Provisions – November 13th.

### Board of Directors

We would like to thank our outgoing Board members for their time and service as well as welcome incoming Board members. Next year's officers are:

President – Andrea Hougen; Vice President – Duke Turner; Secretary/Treasurer – Dave Giordano; Past-President – Robert Graper; Director – Jeff Van Leuven.

-Robert Graper,  
Outgoing President  
[rgraper@integrus.net](mailto:rgraper@integrus.net)

### South Central Chapter

2008-2009 has been a good year for South Central Chapter of SEAW. We started the year with two fall seminars presented by the Northwest Concrete Masonry Association in September and the Rehabilitation of Existing Buildings in November.

This year we have tried something new with our dinner speakers. Members signed up to find a speaker for each meeting. This allowed some of our younger members to be more involved while taking some of the responsibility away from John Tate and myself. We had some great programs that were of interest to

our membership. Some of these included: "Ten Commandments for Managing Your Professional Liability Risk" that was presented at the NCSEA National Convention; "Structural Steel Issues and Updates"; "Review of Basic SE concepts"; "Wilbert Precast"; and "Lessons Learned in Alpine Engineering."

South Central Chapter continues to support the potential structural engineers in our area by providing awards for structural engineering related projects at the Mid-Columbia Regional Science and Engineering Fair:

6th grade (\$25): Anita Whyatt—"Measuring the Strength of Wood"

7th grade (\$25): Noah Henn—"What Truss Design is Stronger:

Warren or Bowstring?"

8th grade (\$25): Rachel Giddings—"Exploring Efficiency of Wind Turbine with Different Propeller Configurations"

High School: Efran Silva—"How does temperature affect corrosion of aluminum wire in fresh and salt water?"

A \$150 donation was also given directly to the organization in support of MCSF.

We are currently planning for some fun this summer with a family campout July 17-20. This will allow us to socialize and get to know each other in a relaxed setting.

-Jill Shuttleworth  
Outgoing President  
[jts.engineering@gmail.com](mailto:jts.engineering@gmail.com)

## Statewide Equilibrium to go All-Electronic in 2010

Beginning in Summer 2010, print copies of the *Statewide Equilibrium* will be mailed only to members without e-mail addresses on file, and to those specifically requesting a mailed copy. The decision to go all-electronic was made by the State Board of Trustees in an effort to conserve resources and to cut production costs.

In keeping with current practice, members will receive a link by email to access the full color version of the newsletter on the SEAW website.

If you would like to continue to receive the annual *Statewide Equilibrium* by mail, please email the SEAW office at [seaw@seaw.org](mailto:seaw@seaw.org) and request "Statewide Equilibrium by Mail" status.

## Are your 2009 Dues Paid?

Log in to [seaw@seaw.org](mailto:seaw@seaw.org) and check today! Online dues payment instructions are on page 14.

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# Annual Committee Reports

## Code Advisory Committee

### Administrative

The Code Advisory Committee (CAC) was formed in January 2007 to coordinate the codes and standards development efforts of SEAW's statewide committees. The CAC membership consists of the chairs of the standing committees, along with the overall chair, as shown below.

- CAC Chair John Hooper
- Building Engineering Committee Phil Brazil
- Earthquake Engineering Committee Tom Xia
- Wind Engineering Committee Don Scott
- Professional Practice Committee John Tawresey
- Existing Building Committee Peter Somers

The goals of the committee are as follows:

- Coordinate and organize SEAW's participation in codes and standards development
- Determine official SEAW representation and travel funds allocation of the statewide committees.

Issues addressed by the CAC:

- SEAW's image and careful stewardship of SEAW's expenditures
- SEAW's image and how SEAW interfaces with NCSEA, and other organizations, on codes and standards development
- Resolving conflicting positions between SEAW's statewide committees.

The CAC adopts the following approach for the development of an SEAW Code Change or Public Comment:

- A code change proposal is balloted by an SEAW Committee.
- If approved, it is sent to the other CAC members and is forwarded to NCSEA.
- It may be modified by one of the 4 NCSEA Subcommittees (Existing Buildings, General, QA, or Seismic).
- If accepted by NCSEA, it will be promulgated as an NCSEA code change.
- If rejected by NCSEA, SEAW can still take it forward as an SEAW code change proposal.

The CAC adopts the following process for establishing positions on code changes or public comments prepared by others:

- The affected SEAW Committee will establish its positions and will share the results with the CAC.

### Activities in 2008-2009

The CAC, along with SEAW Members Ted

Smith, Ed Huston, and Mike Valley, met in August 2008 to review the travel budgets for the committee and to review the code public comments for the September ICC Final Action Hearing held in Minneapolis. The CAC established positions and authorized the involvement of SEAW representatives at this Final Action Hearing.

The CAC, along with SEAW Member Ed Huston, met May 26, 2009 to discuss code changes being developed by the various committees and their interaction with their NCSEA committee counterparts. The interaction has been positive with the NCSEA committees that have been active. The CAC also is reviewing several amendments to the 2009 Washington State Building Code and will develop a position on these in time for the public comment period later this summer and early fall.

The CAC will reconvene after the publication of the Code Change Proposals (due out in early July) to determine SEAW positions

and representation at the Code Development Hearings scheduled for late October/early November in Baltimore.

John Hooper, Chair  
jhooper@mka.com

## Earthquake Engineering Committee

There are over 80 participants in the EEC, including 19 voting members and over 60 corresponding members. There are 4 regular meetings scheduled for each year in March, May, September, and November. Additional meetings may be added should there be a need. In addition to the activity of the main committee, there are two active task groups working on specific technical issues.

**Code Development:** The committee has been working with other SEAW committees to review the 2009 IBC and Washington state

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**YOU can help SEAW uphold the highest standards of Structural Engineering. Join a Committee TODAY!**

## SEAW STANDING COMMITTEES

Committee	Chair	Phone	E-mail
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Wind Engineering	Don Scott	253/383-2797	<a href="mailto:dscott@pcs-structural.com">dscott@pcs-structural.com</a>
Building Engineering	Phil Brazil	425/741-3800	<a href="mailto:pbrazil@reidmidd.com">pbrazil@reidmidd.com</a>
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# Annual Committee Reports

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amendments. The committee is also actively involved in 2012 IBC code change proposals by working with NCSEA Seismic Committee, SEAOC Seismology Committee, ASCE 7 Seismic Committee, FEMA CRSC Group.

**Task Groups:** In response to code application questions among engineers and building officials, the committee organized two task groups to study the issues and to provide guidelines in a white paper. One of the task groups is studying the issue related to Special Reinforced Concrete Shear Walls as Building Frame System. A draft of the white paper is completed and is under review by the committee. A final draft of the white paper incorporating committee member comments is expected to be completed in the next two months. The committee will formally vote on the white paper before it goes to public. The other task group is focusing on the Steel Anchor in Concrete Stem walls. It intends to provide a guideline for calculating a steel anchor with limited concrete edge distance. A white paper will be reviewed and voted by the committee this fall if not sooner.

**Seminars:** EEC would like to sponsor a one-day short course on performance-based seismic design for steel structures by Professor Goel from University of Michigan. We would like to offer this course sometime this fall. We will need help from the Education Committee for logistics and setups. We do not anticipate organizing a full seismic seminar until the next major seismic design code change cycle, i.e. ASCE 7-10.

**Future Plans:** EEC is made of voting and corresponding members. The voting members are required to be actively involved in committee work, attend meetings, and vote on important issues like code change proposals or white papers. A corresponding member has access to all the technical information discussed by the committee and can participate in committee activities when circumstances permit. EEC is in the process of bringing more active young members to the voting member group.

EEC would also like to attend selected technical meetings related to seismic design and research, such as the SEAOC Seismology Committee meetings. The goal is to coordinate our efforts with other technical organizations on code development and applications related to local and national seismic design issues. The anticipated cost for travel is about \$3,000 per year.

Even though we anticipate that most of committee work and communications will be done by individuals on their own time and through emails, EEC will meet roughly once every two months during a lunch time to

discuss any technical issues. Task groups will meet more often to discuss relevant issues and write white papers. It is my desire to provide lunches to EEC members, particularly task group members, for these meetings with funding from SEAW. The annual budget for this expense is about \$500 to \$1,000, depending on the task group activities.

Tom Xia, Chair  
xia@dci-engineers.com

## Existing Buildings Committee

During the 2008-2009 year, the Existing Building Committee (EBC) has worked in four areas as outlined below.

### Administrative

The committee has just completed its first full year of being a statewide committee focusing on the following goals:

- Serve as a technical resource for SEAW membership
- Participate in the development process for codes and standards related to existing buildings
- Serve as a resource for local jurisdictions to support existing building codes and standards
- Develop and/or sponsor seminars related to existing buildings
- Develop code resources and design examples for existing buildings to assist SEAW membership in using and interpreting existing building codes and standards

For the upcoming year, the chair is considering implementing a more formal membership and voting system, similar to that used by the Earthquake Engineering Committee. Details will follow.

There are currently 31 total members, with approximately a dozen active members. The committee generally meets in downtown Seattle on the first Thursday of the month. Additional meetings are held as needed.

### Professional

The committee has continued both to work on model codes and standards and to participate in local and state-level efforts related to existing buildings. The committee's professional activity this year included the following.

- For both the International Building Code and the International Existing Building Code—and in coordination with the NCSEA Existing Building Committee—the EBC submitted and reviewed public comments for the 2007/2008 Final Action Hearings last September.
- Due to the shortened 2009/2010 cycle, the committee has been very active this spring, working with NCSEA and SEAOC in devel-

oping code change proposals for the 2012 IEBC. The efforts focused on clarifying certain sections of the IEBC and the Appendix A chapters.

- The committee has continued to support the Seattle Department of Planning and Development in its review and development of a potential mandatory retrofit ordinance for unreinforced masonry buildings. The technical committee, which includes several EBC members, has met numerous times in the last few months.
- The committee has advised on the state adoption of and amendments to the 2009 IEBC through the building code TAG process.

### Technical

The committee continues to work on developing technical resources to assist in understanding the codes, standards, and processes involved with existing buildings.

- Members completed the development of two example problems for representative concrete and unreinforced masonry buildings to highlight both the process (IBC, IEBC) and the technical requirements (ASCE 31 and ASCE 41) involved in seismic evaluations and rehabilitations using the latest suite of codes and standards. The example problems were included in the handout material for the fall seminar (see below), and the committee will explore other options for distributing the material.

### Educational

The committee aims to share information with other committee members and the SEAW membership through newsletter articles, dinner meeting presentations, and seminars.

- The committee developed and presented an existing building seminar in Seattle, Spokane, and Tri-Cities last fall. The seminar covered the basics of existing building codes and standards and utilized the two example problems mentioned above to highlight the concepts.

Committee members have sustained their efforts for another year, with a focus on how the committee can improve the understanding of technical issues and processes associated with renovating existing buildings. All SEAW members are invited to participate in this committee—existing building interest is required, existing building knowledge and experience are optional.

Peter Somers, Chair  
psomers@mka.com

*Committee Reports continue on next page.*

# Annual Committee Reports

## Professional Practices Committee

The purpose of the committee is to consider Building Codes and legislation that have an impact on the practice of structural engineering in the State of Washington. In the past year we have attended the Code Advisory Committee meetings, but have only made comments to other SEAW committees on the impact of various proposals on the practice of structural engineering.

I am happy to report that finally the membership of the committee is formed. It consists of familiar SEAW member names. Most are involved in both the business and professional practice of engineering. Our first activity will be to address the inappropriate use of the term "observation" in the current IBC and in the proposed changes to Chapter 17. The word observation should be a "term of art" for our profession and should be removed from the definitions of Special Inspection.

It is a place to start and we are under way.

John Tawresey, chair  
johntaw@aol.com

## Building Engineering Committee

The Building Engineering Committee (BEC) continues to participate in the development of nationally recognized codes and standards affecting the practice of structural engineering. Our 2007 year-end report contained a summary of our efforts to develop proposals for the 2007/2008 ICC code development cycle to revise the 2009 IBC, and for the ASCE 7 Committee to revise the 2010 edition of ASCE 7. Our 2008 year-end report described how the proposals were developed, reviewed by the BEC, and submitted to ICC and ASCE for consideration.

This year-end report begins with the ICC Final Action Hearings last September. The efforts of SEAW members and our structural engineering colleagues around the nation at the ICC Code Development Hearings last February were so successful that no public comments for reconsideration of proposals at the final action hearings were submitted by BEC members. There were, of course, public comments submitted by others and SEAW members attended the final action hearings, but the actions taken by the ICC membership at the hearings affecting the structural provisions of the IBC were, for the most part, minor.

The ASCE 7 Committee consists of a main committee, which makes final decisions on change proposals, and several subcommittees, which review change proposals before submitting them to the Main Committee. SEAW

members serve on the Main Committee and most of the subcommittees. The subcommittees are assigned responsibilities by specific chapters of ASCE 7 of which Chapters 3 (dead load) and 4 (live load) belong to the Live Load Subcommittee (LLSC). Most of the ASCE 7 change proposals reviewed and balloted by the BEC last year were assigned to the LLSC. Instead of reviewing individual proposals, the LLSC chose to develop separate proposals incorporating changes from proposals by BEC members and other proponents. The end result has been proposals from the LLSC with most of the proposed changes from most of the BEC proposals are currently being balloted by the Main Committee.

The second of two ICC code development cycles was completed at the conclusion of the ICC Final Action Hearings last September. All that was left was for ICC staff to process the actions taken by the ICC membership at the hearings, and for ICC to publish the 2009 editions of their codes, including the 2009 IBC. It was time for the SEAW members who participate in the ICC code development process to enjoy a brief respite from ICC activities before starting all over again this year. There would be two code development cycles for the 2012 edition of the ICC codes, of which the second cycle is, by far, the more important (and time consuming). This is because the impact made by the referenced standards (ASCE, AISC, ACI, etc.) is concentrated in the second cycle. The first cycle, which would have extended through all of 2009 and the first six months of 2010, is much less demanding on SEAW members, most of whom devote their personal time to participating.

The hope for a less demanding first cycle ended suddenly in February of this year with the bombshell from the ICC that two code development cycles for each of their codes would be reduced to one cycle. Some of the codes would be assigned to the first cycle and the others would be assigned to the second cycle. The committee structure for the IBC is such that the Structural Code Committee would be assigned to the first cycle and the other IBC committees (General, Fire Safety and Means of Egress) would be assigned to the second cycle.

There was no advance warning from ICC that this would be happening and there was no recourse once the ICC membership was informed of the decision. The news of the decision caused an uproar and the ICC received a tremendous amount of criticism because of it, but to no avail. Instead of a deadline of October, 2010 for the submittal of proposals for a second code development cycle, the submittal deadline for changes to the structural chapters of the 2012 IBC was June 1 of this year. A less demanding first cycle had vanished. Now, there would be only one cycle and what had occurred during two cycles would now be compressed into a single cycle. The 2012 I-codes are sched-

ule to be published early in that year but our ability to affect change in the structural chapters of the 2012 IBC will end with the conclusion of the ICC Final Action Hearings in May, 2010.

In conjunction with our colleagues around the nation and structural standards development organizations, SEAW members made a major contribution to the submittal of code change proposals to the ICC in time for the June 1 deadline, of which 43 were reviewed and balloted by the BEC.

We encourage other members of SEAW to contribute their ideas and to consider joining the committee. Please contact me for further information.

Phil Brazil, Chair  
pbrazil@reidmdd.com

## Wind Engineering Committee

2008-2009 has been a very busy year for the Wind Engineering Committee. The Wind Committee is finalizing revising and updating the SEAW Wind Commentary (ATC-60) that was published in the past. This document discusses the wind provisions of the 2006 and 2009 International Building Codes, and the ASCE-7 Standard, 2005 Edition, and how they relate to our profession.

Members of the committee have presented seminars across the country this year with the adoption of the 2006 IBC in jurisdictions across the country and publication of the 2009 IBC.

Members of our committee have also been involved on various committees around the country relating to the wind load provisions. We have members that work on the ASCE 7 Wind Load Task Committee, NCSEA Code Advisory Committee, and the IBC Structural Committees. We are working to offer input to the provisions of each of these codes and standards with a major effort these past two years to spearhead the new Simplified Wind Design Procedure in the 2009 IBC. This effort was started by the SEAW Wind Committee and we involved representatives of the Structural Engineers of Oregon and California in our efforts. The procedure was developed based upon the SEAW Rapid Solutions Method and the wind provisions of the 1997 Uniform Building Code (UBC). Once the procedure was developed it was sent to the NCSEA Code Advisory Committee to coordinate with engineers across the country and then be taken forward through the ICC Code Process.

Finally, special thanks to the eight to ten volunteers who give of their lunch hours and Saturday mornings to participate on the com-

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# Annual Committee Reports

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mittee. We are always looking for new members to participate on the committee and have recently been holding our meetings by conference call. Thus, we welcome anyone from across the state that would like to participate as a full member or a corresponding member. Please contact me at (253) 383-2797, or [dscott@pcs-structural.com](mailto:dscott@pcs-structural.com) for further information.

Don Scott, Chair  
[dscott@pcs-structural.com](mailto:dscott@pcs-structural.com)

## Exam Committee

The Washington State Board of Registration contracts with individuals to work on the Structural Engineering Exam. Since some SEAW members work on the exam, we have the opportunity of providing a liaison between our members and the Board of Registration. The SEAW Exam Committee fulfills this function.

Washington and Oregon offer a common 8-hour Structural III exam. Examinees take this in-state written exam along with the National Council for the Examination of Engineering and Land Surveying (NCEES) eight-hour Structural II exam, for a total of 16 hours of examination. British Columbia offers this 8-hour Structural III exam as one of three pathways to their StructEng credential. The Washington State Board of Registration reported that thirty-three of one hundred twenty-five candidates in Washington, Oregon and British Columbia passed the October 2008 exam, a passing rate of 26.4%. This is a slightly higher passing rate than the ones that have been reported for the previous six exams. Candidates still struggle with the code requirements for design in areas of high seismicity.

The eight-hour Structural III exam format has four two-hour sections including analysis and general code knowledge, concrete design, steel design, and wood and masonry design. Each of the four sections has an equal point value. On the October 2008 exam, the morning and afternoon portions of the exam each had two building problems and a bridge problem. Candidates could choose to solve any two of the three problems. This allows the bridge candidates to solve a bridge problem and their choice of either of the two building problems. Candidates whose experience had been largely in the design of bridge structures had twelve hours of bridge problems to attempt (eight hours of bridge problems on the NCEES Structural II exam and four hours of bridge problems on the Structural III exam). The Washington State Board of Registration has mandated that at least four of the sixteen hours of examination must still test building

structural knowledge.

The Structural III examination focus is to provide a breadth/depth examination which acts as a companion to the NCEES Structural II exam. Having the analysis section and all of the major materials covered on each exam tests the breadth of the practice. Having two hours of work in each section tests the depth of the practice. By putting equal emphasis on the four sections, this format also removes any bias that might have been a result of having a higher percentage of the exam weight on any one subject. There is a test matrix for the eight hour Structural III exam. It is available from the Washington Board of Registration web site.

The Structural III exam goes beyond the Structural II exam by delving into more of the details of seismic design. This higher level is not typically required for the Structural II exam, which is given on a national basis in

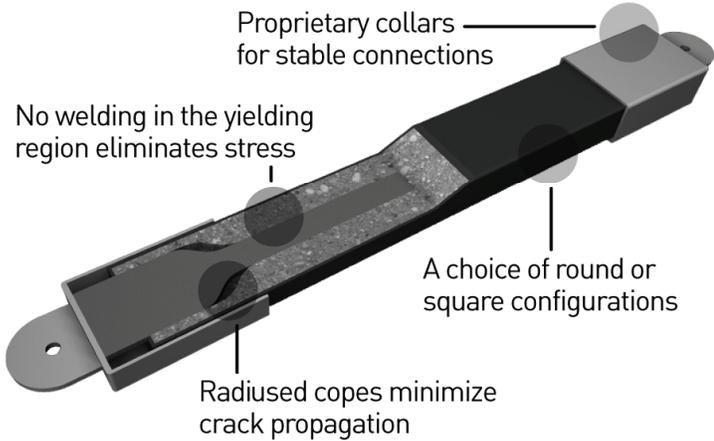
states where the seismic risk is often Seismic Design Category C or less. The Structural III exam is able to ask questions focused on zones of higher seismicity, typically Seismic Design Category D and above, as well as questions regarding the underlying philosophy of seismic design and reasons for various seismic provisions. Since this is a departure from the Structural II exam, it is important that candidates realize that a different level of preparation is required to successfully complete the Structural III exam. The Structural III exam can also test other environmental conditions that we experience in the Pacific Northwest, such as high snow loads. The SE III test matrix also includes "verification of computer output".

Many of these candidates took the Structural II exam on the same weekend last October, although I understand that some of the successful candidates made a point of taking the

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# Annual Committee Reports

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SE II in April and the SE III in October. By doing so, they were able to decrease the intense pressure of taking 16 hours of examination in two days. This philosophy makes a lot of sense when you consider that there are major differences in the depth of knowledge, especially seismic knowledge, tested on the two exams.

Building problems on the April and October 2009 NCEES Structural II exams and the October 2009 Washington/Oregon/British Columbia Structural III exam will be based on the 2006 IBC and referenced standards. Candidates should be aware that using any code other than the 2006 IBC on either of these exams could diminish their chances of passing that exam. Bridge problems on the Structural III exam will be based on the AASHTO Standard Specifications for Highway Bridges, Seventeenth Edition, the AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 4th Edition, and the WSDOT Bridge Design Manual (latest version).

California has adopted the same formula as Washington. That is, it now offers its own in-state written 8-hour Structural III exam and the NCEES 8-hour Structural II exam, for a total of 16 hours of examination. Reciprocity is offered for the California and Washington exams.

In 2011 the NCEES is likely to go to a new structural examination format. If adopted by the NCEES membership, this format will have an eight-hour vertical and incidental lateral load module and an eight-hour lateral load module. The vertical and incidental lateral load module would include lateral loads from soil, lateral loads due to eccentric placement of vertical loads, ice loads on bridges, and similar lateral loads. The eight-hour lateral load module would include lateral loads induced by wind or seismic forces. Each module would have to be successfully completed before a candidate could pass the examination. This is similar to the Architectural Exam, which has eight modules. Each module would have a morning session with multiple choice problems and an afternoon session with constructed response (essay) questions. The eight-hour lateral load module will include at least two seismic design problems set in Seismic Design Category D or above, and a wind problem. There is more information about the new structural examination format at [http://www.ncees.org/news/index.php?release\\_id=47](http://www.ncees.org/news/index.php?release_id=47).

If Washington, Oregon and California adopt this new exam format, it would replace the current NCEES Structural II and state specific Structural III exams currently being written. Individuals who have successfully completed

their Structural Licensing Requirements in these three states would not be affected by this change. Individuals who have successfully completed the Structural III examination, but have not successfully completed the Structural II examination would have three more opportunities to pass that examination in October 2009, April 2010 or October 2010. Individuals who have successfully completed the Structural II examination but not the Structural III examination would have two more opportunities to pass that examination: in October 2009 or October 2010. The Washington State Board of Registration is currently discussing the feasibility of offering the Structural III examination one additional time in October 2011 to assist those engineers who are working through this transition.

SEAW owes a debt of gratitude to the 27 structural engineers who work on the four exam committees. SEAW would also like to thank the structural engineers from Oregon and British Columbia who helped grade the 2007 exams.

-Ed Huston, Exam Committee Chair  
huston@smithhustoninc.com

## Education Committee

The Education Committee, in conjunction with the Existing Building Committee, organized the Existing Building Seminar last fall. The seminar, held in Seattle, Spokane, and Tri-Cities, was a great success. The net profit was \$15,843.54, which will be distributed per policy with half to the State SEAW, and the other half among the chapters based on their members' participation.

The committee has met since then and discussed future educational programs. The intent of the committee is to provide a minimum of two educational offerings every year. Although the committee has not been active in recent months, a kick-off meeting to start organizing the next seminar, "Field Fixes," will be announced soon.

Joe Ferzli, Chair  
joef@ckcps.com

## Public Information Committee

The Public Information Committee currently has members Peter Opsahl, Ade Bright and Chair, Cale Ash. Dennis Pradere needed to opt out of his participation on the committee, and his input will be missed. We need more members as we feel the role this committee will be playing in SEAW's growth over the next few years is critical. We will be issuing our first press release within the next few weeks and will cover the results of our Seattle Chapter elections. The press release will be

going out to the Daily Journal of Commerce and the Puget Sound Business Journal. We are still actively seeking input on the role this committee should take, but feel we need to get started sooner rather than later. We intend to look at the EOY award and all other news worthy items such as scholarship awards, dinner meetings and speakers and possibly seminars as well. We look to the coming year to develop more on this committee's responsibilities.

Peter Opsahl, outgoing chair  
Cale Ash, Incoming chair  
cash@degenkolb.com

## Disaster Preparedness & Response Committee

### Activities:

- Assisted with the China Earthquake Symposium
- Presented ATC-20 in Seattle in coordination with the Port of Seattle and AIA
- Presented ATC-20 in Tacoma for the SEAW SW Chapter.
- Continued to coordinate with the King County Department of Development and Environmental Services (DDES) to prepare a white paper on the process for posting buildings after a disaster when the evaluation is prompted by the property owner instead of through the local building official.
- Trained additional presenters of the ATC-20 course.

Many people assisted with these activities including:

Scott Douglas, Katrina Reed, Jacqueline Putt, Mark Anderson, Jim Walton, Jon Siu, Chris Ricketts, Greg Schrader, Ian Frank, Dave Swanson, Jim De Salvo, Jennifer Goupil, Bernard Moore, Paul Grant, Michael Peña, Rachel Minnery, Rees Robinson, Rick Wyble, Cameron Hufford, Sam Asavareungchai, Al Findlay, Shannon McConnell, and Lynnell Brunswig.

Respectfully submitted,

Paul Brallier, Chair  
Paul.Brallier-consultant@i405.wsdot.wa.gov

## Legislative Committee

Over the past year, the Legislative Committee has changed leadership, added new members, and continued to participate in the Architects and Engineers Legislative Council (AELC), which allows us structural engineers to have a voice in the Washington State legislative process.

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# Annual Committee Reports

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After many years of tireless and often singular leadership, Robert Bourdages stepped down as Committee Chair. Robert is moving on to focus more of his time on the Structural Engineering Practice Act (which he successfully shepherded through Olympia over the past few years) on a national platform with NCSEA. With Robert's help, Matt Toton has transitioned from Assistant Chair to the current Committee Chair.

In an attempt to bring new views to the Legislative Committee and to expand the education of the membership on legislative matters, we are striving to add new members to the committee. In the last couple months we have added George Gimas, Lily Iftner, and Susan Chang.

Anyone interested in learning more about the legislative process in Olympia and how it affects our profession is welcome to join the committee. It is as easy as sending an email to Matt Toton ([mtoton@toton-structural.com](mailto:mtoton@toton-structural.com)).

During the recent legislative session there were several bills (especially the residential liability bill) that we weighed in on. And with the invaluable help of the Architects and Engineers Legislative Council (AELC)'s Chief Counsel, Cliff Webster, lobbyist James Curry, and their office, overall we were successful in advancing the basic goals and values of our structural engineering professionals and businesses. See the AELC 2009 Final Legislative Session Report below for more information about the important issues that were tackled over the past year.

Matt Toton, S.E.  
Chair, SEAW Legislative Committee  
[mtoton@toton-structural.com](mailto:mtoton@toton-structural.com)

## AELC Final Legislative Session Report

During the 105-day legislative session, 2,578 bills were introduced, of which 582 were passed by the legislature. Below is a summary of the issues of most importance to AELC.

### LIABILITY

**Residential Construction Liability (SHB 1393/SSB 5895 – DIED) AELC Rating: -H.** These bills address residential construction liability through statutory warranties, alternative dispute resolution, increased consumer education, and licensing of contractors and tradesmen. Each bill would have created very damaging liability and insurance issues for design professionals doing residential design, and the final version of SHB 1393 included a provision removing the six-year builder limitation statute on all construction for cases alleging fraud.

**Consumer Protection Act Expansion (SSB 5531 – PASSED) (Chapter 371, Laws of 2009) AELC Rating: -L.** This bill raises the dollar limit for treble damages available in a consumer protection act lawsuit from \$10,000 to \$25,000 and lowers the threshold for proving a violation is subject to the consumer protection act.

### GOVERNMENT CONTRACTING / A&E SELECTION

**UW/WSU Alternative Contracting Methods (SSB 5760/HB 1916 – DIED) AELC Rating: -H.** This bill would have exempted the University of Washington and Washington State University from state procurement laws by allowing the schools to develop their own public contracting rules, including the ability to pre-qualify bidders for public works contracts.

**WSDOT Procurement/Contracting Out:** In late March, the International Federation of Professional and Technical Engineers Local 17 undertook a letter-writing campaign to the Governor and members of the legislature urging the rejection of contracting out on WSDOT projects. The effort was based on a flawed 2007 study entitled *Value Subtracted: The High Cost of Contracting Out WSDOT Engineering*, which was reintroduced by the IFPTE in early 2009. The American Council of Engineering Companies of Washington and the Washington Construction Industry Council responded with letters to the governor and legislature refuting the erroneous claims in the report and reiterating the benefits of contracting out design work to private firms.

### LICENSING

**Landscape Architecture Practice Act (SSB 5273 – PASSED) (Chapter 370, Laws of 2009) AELC Rating: +L.** The American Society of Landscape Architects was successful in seeking the passage of a practice act for the landscape architecture profession.

**Architecture Practice Act Update (SHB 1634/ESSB 5529 – DIED) AELC Rating: +L.** The American Institute of Architects/WA Council made progress in advancing an update to the architect licensing law but the bill was held up in the final week of session.

**Land Surveyor Licensing Update (HB 1391/SB 5584 – DIED) AELC Rating: +L.** The Land Surveyors Association of Washington faced opposition to amending the land surveyors act.

**Other.** Proposals to license soil and wetland scientists (SSB 5698) and interior designers (HB 1608/SB 5514) were once again unsuccessful. AELC opposed these measures.

### TAXES/FEES

**Construction Resale Certificates (SB 6173 –**

**PASSED) (Chapter 563, Laws of 2009).** The bill changes the resale certificate for sales tax exempt wholesale purchases to a seller's permit to increase sales tax collection. AELC joined others in the construction industry in strenuously opposing the bill before it was amended to remove a provision requiring contractors to pay the sales tax prior to receipt of payment from the owner.

**Document Recording Fees (HB 2331 – PASSED) (Chapter 462, Laws of 2009) AELC Rating: -L.** The measure authorizes an increase of \$20 on document recording fees, including surveys, for four years to benefit homeless programs.

**Intangible Property Tax (HB 2350 – DIED).** The bill would create a tax on intangible property.

**Sales Tax Increase (HB 2377 – DIED).** Upon approval of voters, the bill would have allowed a temporary sales tax increase of 0.3 percent for three years to pay for certain health care services.

**Income Tax on High Earners (SB 6147 – DIED).** The bill would levy an income tax on individuals with income above a certain threshold.

### REGULATORY ISSUES

**Changes to Vesting Laws (SB 5148 – DIED) AELC Rating: -H.** Introduced for three years now, the bill would significantly alter land use regulations pertaining to vesting.

**Association Health Plans (HB 1714 – DIED) AELC Rating: -M.** The bill brings association health plans under the existing regulatory requirements of the small group health insurance market.

## NCSEA Report

The National Council of Structural Engineers Associations (NCSEA) is now in its 17th year of existence, and is currently comprised of 42 regional or state Member Organizations (MO) from the United States and Canada and growing. The Member Organization Development Committee continues to strive to get every state or regional area represented in NCSEA by first helping to set up a local SEA in that location.

The **16th Annual NCSEA Conference** was held last October Cleveland, OH. SEAW was once again well represented at the conference with at least six members attending.

The **17th Annual NCSEA Conference** will be held this October 15-17, 2009, in Scotts-

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# Annual Committee Reports

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dale, AZ. This year's theme is "Learning from Experience." Presentations will be focused on preferred detailing and analysis methods for various structural materials and components, including examples of unsatisfactory results when less-than-preferred methods are employed. Two full days of courses will be offered highlighting topics such as the I-35W Bridge Collapse and the ongoing 9/11 lawsuits against structural engineers, along with a third day to learn more about NCSEA and working with the different generations in your local structural engineering association. In 2010, the NCSEA annual conference will be held in early October in Jersey City, NJ.

NCSEA continues to sponsor **Webinars for Continuing Education**, including six webinars that were co-sponsored with the The Masonry Society over the past several months. These Webinars offer a convenient way for groups of engineers around the country to easily view a 1-1/2 hour technical seminar in their own homes or offices via an internet computer hook-up, and get Diamond Review approved (meaning they are acceptable in all 50 states) continuing engineering credit for doing so. Upcoming NCSEA-sponsored Webinars can be viewed on their web site. New [Flex-Plan packages of 5 or 10](#) webinars are now offered where registrants will have

access to any NCSEA webinar over the course of 12 months for one low price, with a net savings of \$30 - \$55 per webinar.

There is a new NCSEA publication now available entitled "[Guide to the Design of Diaphragms, Chords and Collectors: Based on the 2006 IBC and ASCE/SEI 7-05](#)." NCSEA is filling a void with this new book that provides detailed examples of how to determine seismic forces and design the diaphragm, chords, and collectors for various types of buildings located in Seismic Design Categories (SDC) B through D. NCSEA members can now purchase this book online through ICC.

When you have a chance, check out the NCSEA website, [www.ncsea.com](http://www.ncsea.com). In addition to posting the recently approved Model Code of Ethics and upcoming conferences and webinars, improvements have been made to the NCSEA Career Center. Recently-made enhancements to the employment search site require engineering job-seekers to create a professional profile. All profiles and applications are now presented in a concise and consistent format to make the screening process easier and more efficient.

Don't miss next year's NCSEA **Winter Institute** in San Diego, CA on March 12-13, 2010. The two day event entitled "Explaining the

'Why' Factor: From One Generation to the Next" will be covering seismic design.

There are many NCSEA Committees that perform much of the work behind the scenes that greatly benefit our profession. SEAW members should consider volunteering for one of these causes and get involved in a meaningful way with the national organization. To highlight one of the active committee's ongoing work; the "Structural Engineer Emergency Response (SEER) Committee" goals for this year include updating the SEER Plan Manual (2<sup>nd</sup> Edition) based on recent changes made to ATC-20/ATC-45 and other FEMA documents that define emergency response and protocol, spearheading a nationwide campaign for SEER team development by all active Member Organizations, and promoting "Good Samaritan" legislation for design professionals in every state MO that does not currently have it by a new sub-committee set-up under the SEER Committee.

As SEAW's delegate to NCSEA, I am once again looking forward to another exciting year of promoting and advocating for the Structural Engineering profession as a part of the national organization as we continue to face the increasing challenges and complexities related to our professional practice, especially during these immensely challenging economic times.

John H. Riley  
SEAW Delegate to NCSEA  
[jriley@quantumce.com](mailto:jriley@quantumce.com)

## NCSEA Call For Entries

*The National Council of Structural Engineers Associations (NCSEA) announces the Call for Entries for the 2009 NCSEA Excellence in Structural Engineering Awards Program. The purpose of the program is to recognize creative achievement and innovation in structural engineering.*

Entry must be submitted by a licensed Professional Engineer (P.E.) or Structural Engineer (S.E.) whose practice or activity is primarily in the field of structural engineering.

Projects must have been completed between January 1, 2006 and December 31, 2008, or must be sufficiently complete such that they clearly show the basic design of the structural system. The submittals will be judged based on the quality of the structural "design" portion of the project. Within the context of this awards program, "design" refers to the overall concept of any structure or structural system within a project. New projects, renovations, rehabilitation, structural upgrades and adaptive reuse of buildings, other structures, and bridges are eligible. Projects may be located anywhere in the world.

Deadline for submittals has been extended to July 24. For complete details and entry forms, visit [www.ncsea.com](http://www.ncsea.com)



## NCSEA Webinars

**July 28: [Connections: The Last Bastion of Rational Design](#) with Bill Thornton** will present the fundamental basis of connection design, the Lower Bound Theorem of Limit Analysis. Discussion will include single and multiple load path connections, analysis assumptions and reality. Economic aspects of connections and the Lower Bound Theorem are related, as are the art and science of connection design.

For any questions or comments please contact Melissa Matarrese, Marketing Director at 312-649-4600 x203 or reply back to [Melissa@ncsea.com](mailto:Melissa@ncsea.com)

# Annual Committee Reports

## Northwest Conference Council 2008-2009

The Northwest Conference Council (NWCC) met on June 19, 2008. The SEAI hosted the meeting and the Northwest Conference, which was held at the Sun Valley Resort at Sun Valley, Idaho. The NWCC is the policy making body for the annual conferences.

The Southwest Chapter of SEAW will host the 2009 Conference at the Hotel Murano in Tacoma, WA on September 24-25. Watch your newsletter for additional information.

### Future Conference Schedule:

2009	SEAW - SW
2010	Roundup - BC
2011	Spokane & SC
2012	SEAO
2013	Roundup - SEAOH

-Ed Huston, NWCC Representative

## Western Council (2008-2009)

The objective of the Western Council of Structural Engineers Association (WCSEA) organization, historically formalized in 1964, is to provide a medium through which the activities of the individual member associations can be coordinated and action can be taken on problems or concerns of common interest. Although not a separate entity within the National Council of Structural Engineers Association (NCSEA), the WCSEA continues to serve western member organizations as a regional entity for shared knowledge and information. All member associations of WCSEA belong to both organizations.

Annual delegate meetings are held at the time and in locations suggested by the host chapter and agreed upon by the Governing Board during the preceding annual meeting. Conventions, known as "Western Roundups," are held every three years. The Roundup location typically rotates between the member organizations. This year Arizona is hosting the delegate meeting in Scottsdale, AZ, in conjunction with the NCSEA Annual Conference. Three years ago, the WCSEA voted to hold the annual delegates meeting in conjunction with the NCSEA meeting in non-Roundup years to reduce the cost associated with sending delegates to multiple meetings.

The 2008 Annual Meeting started with an Applied Technology Council (ATC) Report. The WCSEA has one delegate to the ATC Board of Directors. That delegate is appointed by one of the Western Council member organizations on a rotating basis. The delegate rotation is from the SEA of Wash-

ington, Oregon, Hawaii, Idaho, Arizona, and British Columbia. The current delegate is from SEAW.

There was much interest in sharing of WCSEA member organization seminars and information. SEAW has traveled and given their wind and/or seismic seminars in Washington, Oregon, Idaho, and Arizona. NWCMA developed and presented a masonry seminar which was offered in Washington, Oregon, Idaho, and Arizona. British Columbia has a non code-specific seismic seminar available on line. Professional Engineers and Geoscientists of BC (APEGBC), is the parent organization, [www.apeg.bc.ca](http://www.apeg.bc.ca). WCSEA member organizations will receive a discount on all APEG seminars, paying only APEG member rates. Seminars are interactive with a sound card. SEAW has a pre

-dinner mini-seminar format, with a 20-30 minute presentation on topics such as new codes, prior to the monthly dinner meeting. Other SEAs may consider this format. The SEAW website has some of these free educational seminars at [www.seaw.org](http://www.seaw.org). The SEAO website has a sample IBC QA plan with commentary.

Oregon requires 30 hours of Continuing Education every two years with a 15 hour carry over to another year. Washington has no requirement except for a new Land Surveying requirement. Idaho has Land Surveying continuing education only, but is pursuing a PE requirement. Arizona has no requirements. A WCSEA list will be collated for its members.

-Ed Huston, WCSEA Representative  
[huston@smithhustoninc.com](mailto:huston@smithhustoninc.com)

# SAVE THE DATE

September 24-26th

# 2009

## SEA Northwest Conference

Hotel Murano Tacoma, WA

Please mark your calendars for the 2009 Structural Engineers Association Northwest Conference hosted by the Southwest Chapter. Experience Tacoma within the art-inspired Hotel Murano, a newly renovated art-inspired accommodation.

Featured Speakers

Networking

Technical Sessions

Exhibitors and more!!!

Watch your email for more information to come about how to apply to attend the event come September



PO Box 111480 Tacoma, WA 98411 P: 253.382.2936 E: [seawswchapter@comcast.net](mailto:seawswchapter@comcast.net)

# Financial Report 2009

There was no negative (or positive) response to my using a couple graphs to show most of the budget information in a visual format that is easier to understand than the usual complete listing of the Budget. If any of you miss the old list and want a copy, it's easy enough to print it out, on an annual, or even monthly basis if desired. Like other recent years, there is a budgeted deficit, however the budget for this year is comfortable with some funds available for discretionary spending if needed. For the last several years we have had budgets that predicted similar deficits, but actual spending has been under-budget and income has exceeded our modest expectations in enough categories, particularly seminar income, that our balances have been increasing. Last year's income was huge due largely to the very successful NW Conference. The expectation for 2009 is much less, but the surplus from last year keeps us comfortable. As usual, the board wanted to provide adequate funding for all items on the list. As always, our representatives are doing an incredible job locally and nationally in the interest of both the public and the structural engineering community.

The Scholarship Fund has been remaining fairly constant. In 2009, we had an unusually large number of exceptional candidates. The board followed the recommendation of the Scholarship committee and awarded a record three full \$3000 scholarships. You may notice that the online dues payment process now allows for Scholarship donations in addition to regular dues payments. Quite a few members have made contributions in that manner. We're still working toward setting up a tax exempt entity, possibly a Foundation and/or 501(c) to control the Scholarship, Emergency Response, and Special Projects Funds and broaden and clarify the tax deductibility of donations to those funds.

The financial health of SEAW is highly dependent on the volunteer participation in committee work, publications, and seminars in addition to dues payments. SEAW

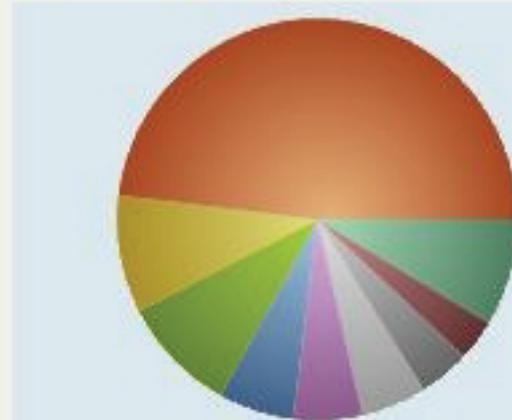
continues to be remarkably effective.

I would also like to thank the Chapter Treasurers for their help and timely cooperation.

-Ted Smith, Treasurer  
[smith@smithhoustoninc.com](mailto:smith@smithhoustoninc.com)

<b>State Account Balance</b>	
January 1, 2009	\$91,177
<b>Budgeted Difference (Income-Expense)</b>	-\$32,114
<b>Min. Projected Balance</b>	
December 31, 2009	\$59,063

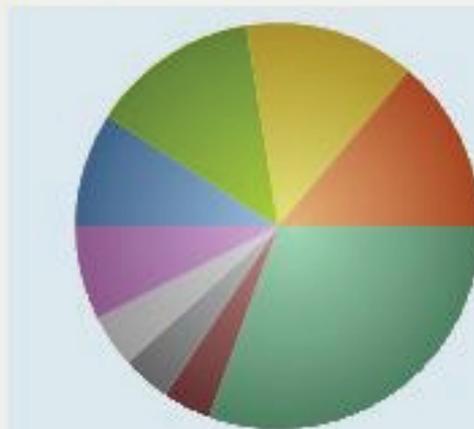
Top yearly budget items:



Sources of income

Dues Income:SE	48.17%
Seminar Income:SE	9.46%
Dues Income:S/W	9.31%
Dues Income:SP	6.33%
Continu Ed Inc	5.41%
Continu Ed Inc:ATC-20	5.41%
_IntInc	4.06%
Interest Earned	3.24%
Other items	8.61%
<b>Total</b>	<b>\$73,969.00</b>

Top yearly budget items:



All expenses

Continuing Ed:Sem Profit Dist	14.14%
Secretarial	13.57%
NCSEA:NCSEA Dues	13.20%
AELC:AELC Dues	9.24%
Code Advisory	7.54%
State Brd mtgs	4.24%
Newsletter	3.77%
Tax exp	3.77%
Other items	30.53%
<b>Total</b>	<b>\$106,083.04</b>

Graphs are best viewed in full color in the online version. Go to [www.seaw.org](http://www.seaw.org) to view.

## Have You Paid Your 2009 Dues?

Not sure if your dues are paid? Visit [www.seaw.org](http://www.seaw.org) and log in to the members only portion of the website (default login name is your e-mail address, password is your first name). Click on "My Membership" then select "Membership Renewal" in the gray menu bar. The "Select an Invoice" box will show if you have any outstanding dues invoices. Follow the prompts to pay your dues.

## Mark Pierepiekarz Named 2009 Seattle Chapter Engineer of the Year

At its May 19<sup>th</sup> Spring Social, the SEAW Seattle Chapter presented its annual Engineer of the Year award to Mark Pierepiekarz. The award recognizes individuals who have provided service to SEAW and the profession; brought visibility to the profession that is favorable in the public eye; have exhibited distinguished technical and creative achievement; and have encouraged and nurtured others in their professional development.

Mark has been visible in the community by actively promoting seismic safety in Western Washington. As one of the leaders of the "Seattle Fault Scenario" project, Mark promoted actions to protect our communities and infrastructure from future earthquakes. This project effectively focused attention on key regional safety issues. In addition, Mark developed numerous technical seminar materials illustrating the application of the latest earthquake-resistant principles, codes, and standards. He frequently speaks to public organizations, trade groups, and media on rele-

vant earthquake lessons, mitigation practices, and engineering solutions to earthquake risks. As part of his engineering practice at MRP Engineering, Mark consults on practical approaches to the seismic rehabilitation of structures.

Mark has been very active in SEAW since joining in 1996. As a member of the Earthquake Engineering and Existing Building committees, he has served in the development of technical seminars on earthquake resistant design for new structures using newly adopted building codes and performance-based design guidelines, as well as the application of seismic evaluation and rehabilitation documents (FEMA, ASCE, and IEBC). For the "Seattle Fault Scenario" project, Mark led a team of SEAW members tasked with evaluating structural performance and losses in a M6.7 scenario earthquake.

Mark served as a Seattle SEAW Chapter board member from 2001 to 2006 and as a Chapter President in 2004-05. He drafted the SEAW Seattle Chapter growth plan to guide the board's actions. As part



Mark Pierepiekarz, right, receives the 2009 Engineer of the Year Award from Seattle Chapter President Scott Douglas.

of the plan implementation, Mark initiated SEAW's "Young Member Forum" to attract and serve younger SEAW members, welcome new structural engineers in the community, and encourage their active participation in SEAW. His contributions also include the initiation of pre-dinner mini-seminars for the sharing of timely technical topics among local structural engineers.

Mark has 24 years of professional experience focused on structural and earthquake engineering. He has performed structural analysis, pro-active upgrade design, and repair of impacted buildings and other structures throughout the U.S. and abroad. Mark's structural engineering experience includes seismic analysis and upgrade design of bridges, reservoirs, and lifeline systems. He has also investigated and analyzed damaged structures. He has taught and developed course materials for seismic design courses. Mark has authored technical papers on topics such as anchorage to concrete, seismic design of steel reservoirs, seismic vulnerabilities of moveable span bridges, stability of unreinforced infill walls, guidelines for bridge-supported pipeline installations, and seismic performance of nonstructural elements.

Mark personally performed post-earthquake damage investigations and authored reconnaissance reports following the Nisqually (2001), Northridge

(1994), Landers/Big Bear (1992), Upland (1990), Loma Prieta (1989), Whittier Narrows (1987), and Superstition Hills (1987) earthquakes.

He performed damage assessments and root-cause analyses for school and university structures in Louisiana following hurricanes Katrina and Rita (2005) on behalf of the Federal Emergency Management Agency. His analyses of the causes and sequence of wind and storm surge damage provided support for public assistance funding and commercial insurance claim settlements.

Mark has taught structural engineering and earthquake principles classes (and developed course materials) serving in the technical development of younger structural engineers. He enjoys sharing the science and art of practical earthquake-resistant design and rehabilitation with engineers working for and with him. He encourages younger engineers' participation in technical and professional activities. His efforts in establishing SEAW's "Young Member Forum" created an important venue for the development of active younger and new SEAW members. Mark organized and presented portions of SEAW seminars to teach sound earthquake resistant design principles and provide local structural engineers with tools to better serve our greater community.

The Seattle Chapter of SEAW is proud to name Mark as the 2009 Engineer of the Year.

## Seattle Chapter YMF Year in Review

By Melissa White

The Seattle Chapter of SEAW's YMF had a strong and rewarding third year. In May of 2008, we held our first election and transferred leadership for this round to a group of enthusiastic young engineers. We elected a Chair, Vice-Chair, Outreach Representative, and Social Representative. The Chair of the previous term stayed involved as an advisor and took the title of Past Chair. The leadership for the 2008-2009 term included engineers working in both Seattle and Bellevue, which encourage involvement and activities on both sides of Lake Washington. We held leadership coordination and planning meetings in June, September, November, and March.

We held a happy hour for the members of the YMF once a

month in Seattle and every other month in Bellevue. These happy hours were open not only to YMF members, but to board members and committee chairs of the Seattle SEAW chapter, helping encourage communication between younger member and local industry leaders. Turnout for these happy hours has grown substantially since the start of the YMF, with a record-breaking turnout for one early spring happy hour of approximately 45 people.

On November 19, 2008, the Outreach Representative coordinated a tour of a multi-building project in Bellevue. The project, known as The Bravern, was presented at the SEAW October dinner meeting, and younger members had the opportunity to follow-up the presentation with an on-site view of

(Continued on page 16)

## YMF

(Continued from page 15)

the construction.

On November 25, 2008, the YMF sponsored and helped coordinate the annual SEAW Student Dinner Meeting. This meeting was held on the campus of the University of Washington and featured a company showcase in place of the usual mini-seminar. Students from both University of Washington and Seattle University gave presentations on their senior projects or graduate research.

On February 14, 2009, the YMF coordinated and operated the SEAW booth at the annual Puget Sound Engineering Council Engineer's Day Fair. We talked to young people interested in going into engineering, as well as community members curious about the work of structural engineers. Our enthusiasm was great, but the display and presentation were fairly simple, so we agreed to form a committee in advance for the next year. We have high hopes to provide a better, more exciting presentation at the fair next year.

On April 23, 2009, the YMF took on our first community service activity in coordination with the local ASCE YMF. Together we completed a Rebuilding Together project. Rebuilding Together is an organization that works to make repairs to the homes of elderly or disabled members of our community. (For information see <http://www.rebuildingtogether.org/section/about/>). The turnout for

our first community service project was great, and those of us who participated had a rewarding time. We hope to initiate a semi-annual community service project, likely focusing on construction-related work.

On May 14 and May 19, 2009, we held outreach lunches for engineering students at Seattle University and University of Washington, respectively. These lunches were attended by juniors, seniors, and graduate students in structural engineering, as well as YMF members with experience in the industry. We were able to answer questions about careers, membership in SEAW, the PE exam, and other concerns. In particular, with the uncertain economic conditions graduating students are facing, we felt that these outreach lunches provided a good resource. Plus, there was free pizza.

In May, we held our second elections, and in early June, the new leaders transitioned into their positions. The YMF leadership for the 2009-2010 term are:

Chair: Jessica Jenness  
Vice Chair: Dan Yeager  
Outreach: Robyn Yang  
Social Rep: Jerry Lee

2008-2009 Chair, Melissa White, has transitioned to the mainly advisory position of Past Chair. The new leadership seems enthusiastic and full of new ideas. We have high hopes for the YMF's fourth year and look forward to new opportunities for outreach, service, and networking.

## Seattle Chapter Spring Social Enjoys Continued Success

By Peter Somers

The Seattle Chapter held its third annual Spring Social, Awards, and Wine Tasting Event at the Shilshole Bay Beach Club on May 19th. Although we traded last year's bright sunshine for thunderstorms, the wine and awards were still flowing. Sommelier David LeClaire provided a wide range of Northwest wines for the social hour and followed that with a main program including a pairing of four wines with appetizers.

Intermixed with useful commentary (when asked about appropriate wines for a holiday dinner of many different types of foods, he recommended Sangiovese, Tempranillo, or Cabernet Franc), the pairings included a dry Reisling with spring rolls, a Rosé of Sangiovese with crab cakes, a Cabernet Franc with endive and goat cheese, and a Syrah with teriyaki salmon.

The awards program followed the wine tasting. Life Membership was bestowed on two SEAW members, Arthur Lynch and Hans Saxer, who received plaques honoring their longstanding memberships. Departing Chapter President Scott Douglas honored eight individuals with President's Awards for Outstanding Service. The honorees are Tom Xia and Matt Toton, for stepping up to chair the Earthquake Engineering and Legislative Committees, respectively;

Joe Ferzli and Peter Somers, for their work on the highly successful Existing Building Seminar of last fall; and Melissa White, Jessica Jenness, Robyn Yang and Shawn Roberge for their valuable contribution to the Younger Member Forum.

For the evening's final award, Scott presented the Seattle Chapter Engineer of the Year award to Mark Pierepiekarz.

Following the awards, outgoing YMF chair Melissa White announced the winners of the recent elections (see separate YMF article). The evening concluded with Scott acknowledging outgoing and incoming chapter directors and passing the gavel to incoming chapter president Peter Opsahl.

For those interested in learning more about wines, David LeClaire had two suggestions: repetition, and consider a wine class. While SEAW doesn't offer wine classes, we can help with the repetition aspect - so stay tuned for next year's fourth annual wine tasting event.

## Seattle Chapter Membership Postings

### Applications

#### Matthew Amrhein

ABKJ  
B.C.E., B.S. Arch., 2004,  
University of Minnesota  
Class: Associate

#### Nicholas Carter

Perbix Bykonen  
BSCE 1995, Tufts University  
Licensed SE, WA  
Class: MEMBER

#### Mark Dachille

ABKJ  
BSCE 2007, Penn State U  
Class: Associate

#### Stephen Day

Coughlin Porter Lundeen  
MSCE 1999, UW  
Licensed PE, WA  
Class: Professional Associate

#### Sean W. Johnson

ABKJ  
MSCE 2008, WSU  
Class: Associate

#### Katherine Krall

Reid Middleton Inc  
BSCE 2009, WSU  
Class: Associate

#### Natalie Low

University of Washington  
B.A. Psychology, 2003  
MSCE in progress, UW  
Class: Student

#### Annie Luu

DCI Engineers  
BSCE 2007, Gonzaga  
MBA 2008, Gonzaga  
Class: Associate

### Accepted Applications

Chris Hasse, MEMBER  
Richard Hawksworth, Associate  
Jason Tornquist, Associate  
William Watson, Associate

## Seattle Chapter Summer Casual



Join us for our annual Summer Casual Meeting on Tuesday, August 25th, 6:00 PM at the Corinthian Yacht Club.

Our pizza and beer/soda dinner will be followed by the annual Committee Showcase and a program of interest to be announced.

Watch your email for details!

# Meetings, Seminars, Announcements

## Refresher Course 2009 Begins August 4th

SEAW Seattle Chapter, in cooperation with the UW Department of Civil Engineering, will hold its annual Refresher course on Tuesday and Thursday evenings from August 4 through September 15, 2009. The course is designed to assist those engineers preparing for the NCEES Structural II and Washington State Structural license examinations. Twelve two-hour lectures will present information dealing with Analysis, Lateral Forces, Concrete Design, Structural Steel Design, Prestressed Concrete, Wood Structures Design, Masonry Design and Foundations. Speakers are experienced local structural engineers.

Also available is the "Half Refreshed" option for those just wishing to brush up on their skills. Choose any six sessions for a reduced rate. Whatever your level of experience or number of licenses, you'll appreciate this opportunity to learn from the masters.

**New This Year: Notes on CD**  
The SEAW Refresher Course notes have long been a resource for those preparing to take the exam but unable to attend the course. This year the notes will be available on your choice of CD or print version.

For details, see flyer in this issue or visit [www.seaw.org](http://www.seaw.org)

## Changes on the Horizon for Washington State Licensing Exam

The Washington State Board of Registration for Professional Engineers has posted a notice regarding changes to the Structural Exam. Beginning in April 2011, the primary structural licensing examination for Washington State will be the examination developed by the National Council of Examiners for Engineering and Surveying (NCEES). That examination is scheduled to be available for the April 2011 administration. The last offering of the NCEES Structural II Examination will be October 2010. The last offering of the

Washington State Structural III will be October 2011.

To view the announcement along with answers to frequently asked questions, visit the DOL website at <http://www.dol.wa.gov/business/engineerslandsurveyors/elnews.html> and click on "Changes to Structural Exam."

## 2009 IBC Available for Online Viewing

The 2009 IBC is available for viewing only (no download, no printing) at <http://ecodes.biz>. Click on Free Codes on the left, then click on International Codes.

## Space Elevator Conference

**Thursday, August 13 through Sunday, August 16, 2009**

Explore the frontiers of space exploration this summer with a four-day conference on the Space Elevator in Redmond, Washington at the Microsoft Conference Center. The conference is sponsored by Microsoft Corporation.

The Space Elevator is a radical new way to access space less expensively than possible with chemical rocket technology. The technology offers solutions to many of the problems facing communities today, including but not limited to the need for clean, renewable energy.

The Space Elevator uses a carbon nanotube ribbon that stretches from the surface of the earth to a counterweight in space. Climbers

ascend the ribbon, lifting cargo and passengers to earth orbits and launching space ships to distant planets.

The 2009 Space Elevator Conference focuses on all aspects of Space Elevator development, engaging an international audience of scientists, engineers, educators, managers, entrepreneurs, enthusiasts and students. This conference will feature topical discussions in all of the four pillars of Space Elevator development: science/technical, political/social, legal, and economic. Other topics include the space missions and the style of life on Earth that Space Elevator technology will enable.

For information and registration, visit <http://www.spaceelevatorconference.org>

## AELC 12th Annual Golf "FUN"draiser

This is an excellent opportunity to support the organization that fights for important issues like tort reform, QBS, infrastructure funding and fair competition; to network with other professionals; **and to have a good time!**

**Friday, September 25, 2009**

**Echo Falls Country Club**

**9:00 a.m. Shotgun Start**

**Team Scramble**

**\$175 (includes Golf, Cart, Lunch, Prizes)**

Sign-up as a foursome or individual

Register online at:

[www.aelc.washington.org](http://www.aelc.washington.org)

## OFFICE EQUIPMENT FOR SALE

- Hewlett Packard Design Jet Printer/Plotter 430 (Black and White), purchased in 2004, 3 years of use. \$750 or reasonable offer.
- Savin 2522 black and white copier with 97930 copies made as of 5/1/09. Prints both 8 1/2x11 and 11/14. Purchased in 2003. \$5,000 or reasonable offer.

Both machines are in excellent condition.

Contact Vivian Morrison  
<[viviansm@earthlink.net](mailto:viviansm@earthlink.net)>  
or phone 360-779-7619

## SEAW 2009 Membership Statistics

	Seattle	Southwest	Spokane	S. Central	Total State
<b>MEMBERS</b>	307	58	31	5	401
<b>Life Members</b>	37	10	10	0	57
<b>Prof Associates</b>	152	37	41	24	254
<b>Associates</b>	122	17	19	0	158
<b>Affiliates</b>	32	7	3	3	45
<b>Honorary</b>	12	0	0	0	12
<b>Students</b>	14	1	7	3	25
<b>Complimentary</b>	3	0	1	0	4
<b>TOTALS</b>	679	130	112	35	956



**STRUCTURAL ENGINEERS ASSOCIATION  
of WASHINGTON**  
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## FIRST CLASS MAIL

### Opportunities

#### Structural Design Engineer

Founded over 50 years ago, Jacobs Associates is a consulting engineering firm, specializing in design and construction management services for underground projects and providing detailed structural design and monitoring of complex ground support systems.

Our downtown Seattle office has an immediate opening for a Structural Design Engineer. The ideal candidate will have 3 to 5 years of experience in structural engineering design and will be responsible for a variety of design tasks of large scale public works and transit projects. Candidates with a background in the design of tunnels, underground structures and temporary excavation support systems, are preferred.

#### Requirements:

- Bachelor of Science in Civil Engineering with a structural emphasis.
- Ability to develop and review designs, drawings, specifications, and technical memoranda.
- In addition to design experience, AutoCAD and BIM modeling experience are considered advantageous.

- Strong technical writing skills.
- Excellent communication and interpersonal skills

Jacobs Associates offers a challenging work environment and actively encourages career development. Jacobs Associates compensation package includes comprehensive medical insurance, dental and vision insurance, 401k profit sharing, merit bonuses, and professional training and development program. To learn more about Jacobs Associates and the opportunities available, please visit our web site [www.jacobssf.com](http://www.jacobssf.com). For consideration for this position, please e-mail your resume and cover letter to [hr@jacobssf.com](mailto:hr@jacobssf.com). EOE

#### Engineers



Equilibrium Consulting Inc is a young, dynamic award-winning structural engineering consulting firm with offices in Vancouver and Toronto, Canada.

We value a positive attitude, strong work ethics, creativity and good communication skills. You must be committed to design excellence, have sound technical knowledge

and at least 2 years of North American experience.

We currently need to fill the following positions in our Vancouver office:

- Intermediate engineer (3 to 7 years): With solid experience in the design and detailing of concrete, steel and masonry, and the ability to manage small to medium size projects with limited supervision.
- Senior engineer (8 to 12 years): With the ability to manage medium to large projects with limited supervision. Your ability to oversee the production of good quality structural drawings is critical.

As we are a relatively small, highly diversified firm, you will be exposed to a wide range of projects, through all stages from concept design to construction. Timber engineering knowledge is an asset, but is not essential.

If you meet the above requirements, we look forward to receiving your resume. Please email to [Beatrice Suter, Office Manager at info@eqcanada.com](mailto:Beatrice.Suter@eqcanada.com).

Visit our website at [www.eqcanada.com](http://www.eqcanada.com).

#### Engineers

### Seattle Structural

Seattle Structural PS Inc is a downtown Seattle firm looking for engineering candidates with 4 to 8 years experience. Share in our vision of client-based service and hard working enthusiasm on diverse and challenging projects in the US and overseas. Join our collaborative staff of 10 in one of Seattle's most vibrant office towers, specializing in public, commercial, retail, industrial and specialty projects. We offer excellent benefits and stimulating work in a casual environment. Visit our website at [www.seattlestructural.com](http://www.seattlestructural.com)

Send resumes to: Pete Pawlak SE, 1420 Fifth Avenue, Suite 425, Seattle, WA 98101

Phone 206-343-3000; fax 206-343-3013; e-mail

[PPawlak@SeattleStructural.com](mailto:PPawlak@SeattleStructural.com)