



STATEWIDE EQUILIBRIUM

annual summer newsletter of the
Structural Engineers Association of Washington

SUMMER, 2007

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SEAW Statewide President 2007—2008



**Ade Bright, 2007-2008
SEAW State President**

Wastewater Treatment Facility, and Denny Way CSO Mercer Street & South Lake Union Tunnels.

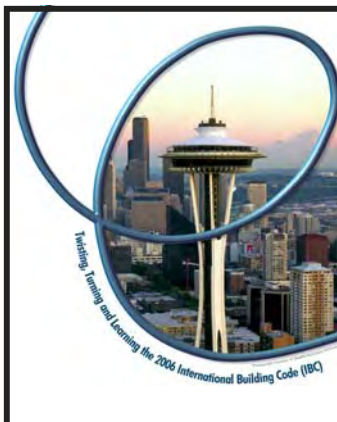
Ade attended the University of Washington and received his BSCE in 1976 and his MSCE (Structures) in 1977. He holds Civil and Structural Professional Registrations in Washington, Oregon, Colorado and Hawaii.

Ade has been a member of SEAW since 1983 and is the outgoing President of the Seattle Chapter Board, as well as outgoing State Board Vice President, and he is the chair of the 2007 SEA Northwest Conference that will be held in Seattle this fall. He currently serves on the ACEC (American Council of Engineering Companies) Board and on the City of Federal Way Parks and Recreation Commission. For many years he also served as a youth soccer coach, leading his team to a win at the Girls U18 National Championship in 1997.

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LEARNING the 2006
International Building Code**

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The Winds of Change

As a windsurfer, I'm one of the few people who get excited when it's windy. Well, the winds of change are blowing through our structural engineering profession this year! The two biggest gusts to our profession are the Structural Engineering Practice Act becoming a Washington State Law, and the 2006 IBC going into effect in our state on July 1, 2007.

I was fortunate enough to be present when Governor Gregoire signed the Structural Engineering Practice Act into law on April 21, 2007. What an amazing experience that was and I'm grateful to have been a part of it. Much thanks goes to Robert Bourdages, the chair of the SEAW Legislative committee, for all the hard work he devoted to get the bill through the legislative process. If you don't know what the Practice Act is, it is a measure that allows only licensed structural engineers to work on "significant" structures, defined in the law as hazardous facilities, essential facilities 5,000 square feet and more than 20 feet in mean roof height, hospitals, fire and police stations, emer-

gency response facilities, aviation control towers, structures exceeding 100 feet in height, bridges with spans longer than 200 feet, and buildings and other structures where more than 300 people congregate in one area. Previously, a registered civil engineer could design any structure. If you'd like to get a copy of the law, go to <http://www.leg.wa.gov> and enter bill number 5984 into the bill search. This law goes into effect July 1, 2008.

Are you ready for the 2006 IBC?!? If you're not, you'd better plan to attend the SEA Northwest Conference this September 13th-15th in Seattle. There will be a lot of great seminars on the 2006 IBC, including seminars highlighting the most significant changes from the 2003 IBC and ASCE 7/02. You definitely don't want to miss this conference!

It has been my great pleasure to serve as State President for 2006-2007. I would encourage you to get involved with SEAW on the state level, whether it's on a committee or serving on the Board of Directors. I never dreamed I would get to meet the Gov-



ernor, or get to go to the SEA of Hawaii structural engineer's conference to combine some windsurfing with structural engineering this summer! I am so glad I served on the state Board as it was really fun, not all that time consuming, and I got to meet many structural engineers throughout our state who have a passion for their profession. Thank you for the opportunity to serve!

Steven W. Hawk, P.E., S.E.
2006-2007 SEAW State President



Governor Chris Gregoire signs SB 5984. Present at the signing were, from left: James Curry, AELC lobbyist; Lynnell Brunswig, SEAW Administrator; Senator Ed Murray, bill sponsor; Steven Hawk, SEAW President; Robert Bourdages, SEAW Legislative Chair; Mia Scherich, Admin Assistant, Poggemeyer Design Group; Mark Leingang, SEAW Southwest Chapter President; Senator Jeanne Kohl-Welles, Chair, Senate Labor & Commerce Committee; Ed Huston, SEAW, bill supporter; Clifford Webster, AELC Lobbyist.

SE Practice Act Passes!

Governor Gregoire signed SSB 5984 into law on April 21st, with SEAW President Steve Hawk, Legislative Chair Robert Bourdages and SW Chapter President Mark Leingang in attendance among others. The law, allowing only structural engineers to provide engineering services for significant structures, will go into effect July 1, 2008. This is the culmination of an effort begun over fifteen years ago, and most recently taken up by SEAW 2005 President Robert Bourdages. The final bill may be viewed at <http://www.leg.wa.gov> (enter bill number 5984).

Congratulations and thanks to Robert Bourdages for his tireless effort, and thanks to the many SEAW members who helped in the formation of the bill by forwarding their comments, and later recommending its passage to their legislators.

Thank you for your support!

Scholarships Awarded to Three Candidates

Three applicants were chosen this spring to receive a 2007 SEAW Scholarship. The successful candidates are Siri L. Ashworth, Gonzaga University; David Glen Sommer, Seattle University; and Debbie Matthews, Washington State University.

Siri Ashworth, at the time of her application for the scholarship, was a senior at Gonzaga University, earning her BSCE in December, 2006. A 1996 graduate of Gonzaga Preparatory School, Spokane, Siri returned to school after marriage and the birth of her first child.



She earned an AA in 2002 from Spokane Community College, and attended Spokane Falls Community College before transferring to Gonzaga University. Siri's dedication and academic excellence earned her several merit-based scholarships. Her college activities include involvement in Tau Beta Pi, the Engineering Honor Society; ASCE, and Engineers Without Borders in addition to volunteering as a classroom Mom at St. Mary's Catholic School, and tutoring local grade and high school students in mathematics. Siri accepted a position in January with Coffman Engineers in Spokane.

David Glen Sommer was a senior at Seattle University at the time of his application, expecting to receive a BSCE in June 2007. He is a 2003 graduate of Sammamish High in Bellevue, and received an AS in Engineering from Bellevue Community College prior to transferring to Seattle U. A 4.0 student, David is also an accomplished pianist,



playing for two area churches, weddings, funerals, special events and occasionally at local restaurants. David's involvement in student organizations includes Vice President of Seattle University chapter of Tau Beta Pi; Vice President of Engineers Without Borders; member of ASCE; Bannan Scholar; and member of Seattle University Jazz Band. In addition, he is a member of club basketball and football teams at Seattle U and plays volleyball with a team from his church. David plans to take a year off after graduation to travel to a developing country or area in Central or South America to use his engineering degree in service to an organization such as Engineers Without Borders or Nuestros Pequeños Hermanos.

Debbie Matthews began her college career as a junior in high school through the Running Start program. At the time of her application, she was a senior at Washington State University, preparing to graduate in December 2006

with a BSCE. She was accepted to the Masters program in January 2007. The top student in each of her classes, Debbie was selected as the WSU Dept. of Civil & Environmental Engineering's outstanding sophomore student, outstanding junior student and outstanding senior student over the past three years. Debbie has served as Vice President and President of Tau Beta Pi and was active in Student Government. In the community, she has served as coordinator for the American Cancer Society's Daffodil Days and participated in their Relay for Life. On campus she participated in various food and clothing drives and Cougar Pride Days (campus cleanup). Debbie enjoys swimming and running in her free time and runs in the Bloomsday marathon in Spokane.

The SEAW Scholarship Program was created in 1985 to recognize academic excellence and personal achievement on the part of students studying and planning to make their career in the practice of Structural Engineering. The program is funded through contributions by SEAW members and their companies, as well as designated funds from the SEAW coffers.

Since the inception of the Scholarship Program, a total of \$63,250 has been awarded to thirty-one students representing the University of Washington, Washington State University, Gonzaga University, University of Idaho, and the University of California, Berkeley. Many of those recipients have continued their association with SEAW through membership and active participation on committees as well as Chapter and State Boards.



SEAW SCHOLARSHIP APPLICATION INFORMATION

Each fall, 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, and can be obtained by e-mailing seaw@seaw.org or by phoning 206/682-6026.

SEAW Scholarship Fund Contribution

Please copy this form and submit 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

YES! I would like to make a donation to the future of Structural Engineering! Please accept my donation of

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Please charge my VISA/Mastercard:

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Annual Chapter Reports

Seattle Chapter

Departing from the Board after serving their terms are past President Peter Hart, and member Andrew McGlenn.

Incoming President is Shelley Clark and Vice President is Scott Douglas. New Board members are Peter Opsahl and Philip Brazil.

For health reasons Bob Morrison resigned from the Board and other committee assignments. The board appointed 2006-2007 runner-up Daniel Lake to serve out Bob's term on the board.

Committees

The Structural Engineer Practice Act, Senate Bill 5984, passed. This law allows only structural engineers to provide engineering services for significant structures. This is a major accomplishment that was spearheaded by Robert Bourdages and the Legislative Committee.

At the April dinner meeting Mike Valley was named Seattle Chapter Engineer of the Year in recognition for his leadership on the Earthquake Engineering Committee as well as for his invaluable contribution to the profession at the national level on codes and standards.

Younger Member Forum (YMF)

Attendance at regular YMF functions is increasing under the guidance of Cale Ash, Andrew McGlenn and Mark Pierepiekarz.

Membership

As of the end of 2006, our membership hit an all-time high of 557 members. As of the end of April 2007 our membership stands at 595, of which 325 have paid their current year dues.

Shelley Clark and Scott Douglas were instrumental in recruiting a number of new members from their respective companies. The increase in membership has also driven up attendance at mini seminars and dinner meetings.

Shelley successfully put together a number of great mini-seminar topics and dinner presentations this year. This also contributed to the increased attendance in mini-seminars and dinner meetings.

Upcoming Events

One of our goals this year is to host a successful 2007 Northwest Conference. The planning committee has been working to achieve this goal. The conference is scheduled for September 13-15 at the Downtown Sheraton Seattle Hotel. The theme is "Twisting, Turning and Learning with 2006 IBC." See the announcement in this edition of the Equilibrium for a glimpse of what is planned. Look for registration information in the mail or visit our website www.seaw.org for programming, events and costs. Companies are encouraged to purchase several transferable passes in

order to take advantage of as many different sessions as possible.

-Ade Bright, outgoing president

Spokane Chapter

The Spokane Chapter enjoyed another year of great lunch presentations and outstanding member attendance. We typically had more than 50% of our members in attendance at our monthly chapter meetings. Lunch presentations included: September - Cold Formed Steel by Scott Douglas; October - Building Code Quality Assurance Plans by Sue Frey; November - Seismic Upgrades Using Viscous Dampers by Arvind Nerurkar; January - Blast Protection Design by Mike Kilgore; February - Site Tour at Metals Fabrication, Inc. by Todd Weaver; March - Tilt-up Construction by John and Shane Miller; April - Hurricane Katrina, Debris on the Mississippi Gulf Coast by Hank Swift. We thank all of the presenters for taking time out of their busy schedules.

Membership

Our current membership consists of 1 Retired Member, 10 Life Members, 30 Members, 39 Professional Associate, 22 Associates, 3 Affiliates, and 1 Student. Our total membership is at 106 up approximately 10 from last year.

Board of Directors

We would like to welcome our incoming board members and thank the outgoing members that have generously contributed their time. Next year's officers are:

President: DeAnn Arnholtz
Vice President: Robert Graper
Secretary/Treasurer: Dave Giordano
Past President: Craig Crowley
Director: Joe Scholze
Director: Jeff Van Leuven

Robert Green will stay on as our seminar chair and is currently working with his committee to bring in fall and spring seminars.

John Cuddy was selected as the recipient of the 2006 Engineer of Merit Award for the Spokane Chapter. Congratulations John and thank you for your great service and commitment to the engineering community.

We are looking forward to another successful year starting in September.

-Craig Cowley, outgoing president

South Central Chapter

The goals for 2006-2007 were to help educate members and building officials with meetings and seminars, and to encourage students to go into structural engineering related fields. Our goal is to have 2 seminars locally every year.

In February we held an ATC-20 seminar which was led by Dave Swanson from the SEAW Disaster Response Committee. Approximately 25 people attended this seminar.

In April NWCMA held a meeting/seminar. This seminar included a lecture, lunch, and hands-on construction of a CMU wall. The lecture included changes in the code, jointing, and some trial design results which are being used to help direct the code language. Approximately 35 people attended this seminar.

Some of our meeting topics included APA full scale building testing, post installed anchors in cracked concrete, construction issues of Highway 24 over Yakima River, and DOT drilled shaft design and construction. During the past year we have had an average monthly meeting attendance of 10 people which is just under 50% of our membership.

In 2006, we had 21 paid members and have one new member join our chapter in May bringing our total current membership to 22 members. We are still trying to grow as a chapter and are trying to find ways to attract new membership.

Our chapter has supported the Mid Columbia Regional Science and Engineering Fair for 7 years now. We recognize projects related to structural engineering. This year we presented \$50 awards to one high school and two middle school students for their science and engineering fair entries.

The officers for 2007-2008 are John Tate, President; Jill Shuttleworth, Past President; Mark Scott, Vice President; Harvey Lighthouse, Secretary; Anthony Cockbain, newsletter; and Mike Harrison, treasurer.

-Jill Shuttleworth, outgoing president

Southwest Chapter

It has been a good year for the Southwest Chapter. The following highlights are notable for the year.

Meeting Topics

Several interesting speakers were able to discuss projects, products and items with us. These included a Tensar discussion of Mechanically Stabilized Earth Walls, Premier Building Systems structurally insulated panels (SIPS) and a Magnusson Klemencic Associates in-depth presentation on the renovation of the historic Stadium High School in Tacoma. We also were able to discuss members' views on the Practice Act, which passed the legislature this season.

Trade Show

Another successful Trade Show was held in February at the Tacoma Dome Convention Center. Topics and presentations by vendors were outstanding. The event continues to be a success, due mainly to the efforts of those who volunteer to set it up and organize it. Special thanks this year are deserved for Ryan

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Annual Committee Reports

Code Advisory Committee (CAC)

John Hooper, Chair

At the January 2007 SEAW Board Meeting, the Board approved a reorganization of committees involved in codes and standards development. A new committee, the CAC, was formed to oversee all codes and standards activities of the following statewide committees with respect to official SEAW representation and travel funds allocation. The current chairs of the committees are also noted.

Building Engineering Committee, Phil Brazil; Earthquake Engineering Committee, Mike Valley; Wind Engineering Committee, Don Scott; Professional Practice Committee, John Tawresey.

The CAC consists of a chair (John Hooper) and the chair or appointed representative from each of the committees. The CAC met for the first time in May 2007 to develop its operating policy, a summary of which is presented below. Comments regarding this policy are welcomed.

CAC Policy

This policy seeks to set a more organized approach for SEAW's participation in codes and standards development.

Purpose of Code and Standards Development

The purpose of SEAW's code and standards development efforts is to: *Help engineers deliver better structures.*

Care shall be taken not to dilute the effectiveness of SEAW by being too involved. The CAC will prioritize SEAW's involvement, including the potential of eliminating official involvement in material standards development.

Issues

The following issues are to be addressed by the CAC:

- SEAW's image and careful stewardship of SEAW's expenditures. Past participation in codes and standards development should not be seen as an entitlement to future participation/expenditure.
- SEAW's image will depend on how SEAW interfaces with NCSEA, and other organizations, on codes and standards development.
- The CAC will act as SEAW's correlating committee to resolve conflicting positions between SEAW's four committees.

Suggested Development of an SEAW Code

Change or Public Comment

The following is the suggested development of an SEAW code change:

- 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 massaged by one of the 4 NCSEA Subcommittees (Existing Buildings, General, Quality Assurance, 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

Suggested Process for Establishing Positions on Code Changes or Public Comments Prepared by Others

For code changes or public comments prepared by others, the affected SEAW Committee will establish its positions and will share the results with the CAC.

-John Hooper, chair
jhooper@mka.com

-Committee Reports continued next page

Annual Chapter Reports, cont'd

McLaughlin, James Sivley and their crew of assistants.

Board Officers

Incoming President for the year is Andrew McEachern, Vice President is Mark Anderson, Treasurer is Andy Pflueger, and Secretary is Dan Sully. Outgoing board members include President Mark Leingang, Secretary Ian Frank, and Treasurer Ted Ryan. The full board membership list is posted on the SEAW website at www.seaw.org. Special thanks are due to our Administrator, Sarah Middleton, who keeps us on track and coordinates the myriad of items that pop up during the year.

Membership

Membership grew this year to a total of 139 members.

Ongoing Projects

We are continuing to work on initiatives to increase membership and extend involvement of the bridge engineering community working for the Washington State Department of Transportation. We are exploring the idea of lunch meetings to ramp up attendance at our meetings. Also, we look forward to attendance and support of the 2007 Northwest Conference in Seattle this fall.

- Mark Leingang,
outgoing president

Have You Paid Your 2007 Dues?

Not sure if your dues are paid? Visit 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 any outstanding invoices.

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Annual Committee Reports

Building Engineering Philip Brazil, Chair

The Building Engineering Committee (BEC) was formed in 2005. It consists of 20 members. Meetings are held monthly and are open to anyone interested in joining the committee (please contact the chair). Attendance averages five members. It came into existence at the request of the State Board, in part, to close a perceived gap in the statewide committee structure of the SEAW. Its primary mission is to monitor and participate in the activities of nationally recognized codes and standards development organizations not otherwise done so by the Earthquake Engineering, Wind Engineering and Professional Practices (recently renamed) Committees. It participates with statewide committees in developing and presenting seminars and other educational initiatives for SEAW members. It also investigates structural engineering design issues and reports its findings to the SEAW membership.

The scope of the Committee's activities is broad, involving interaction with numerous other committees and organizations. The Committee relies on its members to be liaisons, attend their meetings and report back to the Committee on their activities. At present, the Committee's liaisons are Phil Brazil (AF&PA WDSC, ASCE 7 and BSSC TS7), John Cuddy (Spokane Chapter), Scott Douglas (TPI), Chris Duvall (Wood Task Group), Tom Gurtowski (Geotechnical Task Group), John Hochwalt (Concrete Task Group), Ed Huston (NCSEA and SEAW WEC), Jon Siu (WABO), John Tate (South Central Chapter) and Mike Valley (SEAW EEC).

The Committee encourages SEAW members to join standards development committees that lack SEAW representation. As noted above, Scott Douglas was recently accepted as a member of TPI 1, which develops the National Design Standard for Metal Plate Connected Wood Truss Construction. He is also the NCSEA representative. He reported on his activities in a recent editorial of the Seattle Chapter newsletter.

In our 2006 year-end report, we indicated that the Committee developed several structural code change proposals for the 2006/2007 ICC code development cycle (2006 IBC Supplement). Approximately 25 proposals were submitted to the Committee for review. Other affected SEAW committees were consulted through the Committee's liaisons. Committee agreement on several resulted in their submittal to NCSEA of which eight were ultimately submitted by NCSEA on behalf of SEAW to the ICC. Other reviewed proposals were submitted by individual committee members. The proposals were considered at the code development hearings in Orlando last Sep-

tember. Of the eight NCSEA proposals, five were approved and three were disapproved but public comments on two of the latter have been submitted seeking approval at the final action hearings in Rochester, NY, in May. Of the proposals reviewed by the Committee and submitted by individual committee members, eight were approved.

During this past year, the Committee has been developing additional structural code change proposals for the 2007/2008 ICC code development cycle (2009 IBC) in conjunction with NCSEA and the CRSC (submittal deadline: August 20). At present, the proposals (33 in all) are in summary form and have been submitted to the chairs of the NCSEA subcommittees responsible for code development. A brief summary of the issues raised is as follows:

1. Do roof planters impose dead load or floor live load (i.e., LRFD factors)?
2. Do partitions impose dead load, except in office buildings and where partition locations can change?
3. Are partition live load reductions based on supported area warranted?

4. Is nonseismic surcharge at a retaining wall a live load or earth pressure (i.e., LRFD load combinations)?
5. Are floor live load reductions based on supported area warranted at one-way slabs, walls and foundations?
6. What are governing load combinations at occupied roofs (i.e., dead + snow + floor live)?
7. What is ground snow load for Puget Sound: 15 psf per IBC or 20 psf per SEAW snow manual?
8. Is floor live load at residential corridors 40 or 100 psf?
9. Are floor live load reductions based on supported area warranted at egress and retail areas?

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@reidmidd.com

-Committee Reports continued next page

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

SEAW STANDING COMMITTEES

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Exam	Ed Huston	206/448-8448	huston@smithhustoninc.com
Prof. Practices	John Tawresey	206/622.5822	johnhaw@aol.com
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BSSC Rep	Doug Wilson	425/741-3800	dwilson@reidmidd.com
SEAW/WABO	Mark D'Amato	425/827-2238	mdamato@dc-engineers.com

Annual Committee Reports

Earthquake Engineering

Mike Valley, Chair

There are 79 participants in the EEC—19 voting members and 60 corresponding members. Regular meetings are held on the third Thursday of each month. In addition to the activity of the main committee, four Task Groups (Concrete, Geotechnical, Existing Buildings, and Light-frame) address specific technical issues, and an ad hoc committee is rewriting Chapter 18 of the *International Building Code* (IBC). Significant accomplishments this year are as follows:

Code Development: Three code changes were developed and passed for the mid-cycle supplement to the I-codes. Two of the changes clarify and simplify requirements in Chapter 18 of the IBC, and one change updates a key reference standard in the *International Existing Building Code* (IEBC). EEC members balloted and unanimously approved an emergency change to the forthcoming 2006 Washington State Building Code. That change reinstates in ASCE 7-05 the minimum base shear coefficient ($0.044S_{DS}$) that appeared in ASCE 7-02. Recent research indicates that removal of that lower limit may compromise safety of tall buildings. ASCE 7 has approved a corresponding supplement, but that supplement is not referenced in the 2006 IBC. Work on the 2009 IBC and IEBC is underway, with proposals due August 20, 2007. The IBC effort will focus on rewriting Chapter 18, which has long been ignored by code developers. In support of that effort, an ad hoc committee was formed with working members from SEAW, SEC/CT (Connecticut), and SEAoG (Georgia) and a review group with members representing material interests, ACI 318, and the Building Seismic Safety Council. The present effort is seen as the first step toward producing clear, concise, coherent requirements for soils and foundations, to appear in U.S. codes and standards. The IEBC effort (coordinated with NCSEA and SEAOC) will focus on improving triggers and scoping in the IEBC and coordination with Chapter 34 of the IBC.

Existing Buildings: The group helped Seattle DPD to finalize a Director's Rule addressing repair of earthquake damage, and worked with the Washington State Building Code Council IEBC TAG to prepare amendments to the 2006 IEBC. Group members participated in the completion of ASCE Standard 41, *Seismic Rehabilitation of Existing Buildings*, which is now available from ASCE. The standard, based on FEMA 356, provides state-of-the-art analysis and design provisions; development of

significant improvements for concrete buildings has already been completed and will be published as Supplement No. 1 later this year. With the completion of ASCE 41 Supplement No. 1, the group will turn its attention to improving ASCE Standard 31, *Seismic Evaluation of Existing Buildings*. Needed improvements include easier and less conservative evaluation methods and better coordination with ASCE 41.

Seminars: The group is developing a seminar on Seismic Design Using the 2006 IBC and ASCE 7-05, which will be presented this fall in Portland, Seattle, Spokane, and Tri-Cities. It will address the significant reorganization of ASCE 7-05, substantive changes (such as a completely different approach to redundancy), and material standards updates. With the completion of ASCE 41 Supplement No. 1, the Existing Buildings Task Group will look to develop and offer seminars on Seismic Rehabilitation.

Goals: The EEC wishes to "help structural engineers deliver better buildings." With that goal in mind the members continue to participate in local and national efforts, with an eye toward practical application of the resulting codes, standards, and guidelines. In addition to the items described above, upcoming activity will include review of ACI 318-08 changes and participation in the development of commentary to the seismic design requirements of ASCE 7-05 and revisions for ASCE 7-10.

In the past year the Earthquake Engineering Committee members worked very hard to improve practice locally and nationally. As the EEC will continue its work this fall under the lead of a new Chair (yet to be selected), now is the time for additional SEAW members to step forward and contribute to the ongoing effort.

Michael Valley, Chair mvalley@mka.com

Professional Practices (formerly Code Advisory Committee)

There has not been much activity by the Code Advisory/Professional Practices Committee over the last six months. After the ICC hearings in Orlando (September 2006) new proposed code changes have been relatively innocuous, although progressive collapse (or disproportionate collapse) continues to be a hot issue. NCSEA has formed an ad hoc committee to prepare a code change that addresses progressive collapse. Members of the committee include all the material groups and professional groups. Draft proposals are in the works, but not at a stage that warrants our review and comment. Additionally, ASCE 7 has regrouped for production of the 2011 version of the document. Not much has happened, but issues affecting our practice will likely appear.

Our influence in these activities continues to weaken as a more national perspective of structural engineering emerges. This has been a problem for our efforts, as often our comments are on proposals that have already changed or have sometimes even been adopted. Nevertheless, it remains important

for our committee to influence those regulating our practice.

One of our issues has been that the committees of SEAW operated more or less independently when addressing national issues. To fix this, the Code Advisory Committee has been reorganized to become the Professional Practices Committee under the direction of a new committee, the Code Advisory Committee or CAC. It is proposed that the mission of the new Professional Practice Committee be similar to that of the old Code Advisory Committee, but broader in terms of not just addressing professional practices in the code, but other regulations and situations having a direct relation to the practice of structural engineering in the State of Washington. The new committee will identify issues for consideration by the CAC, and CAC will coordinate the efforts to take issues to the national level.

I support this approach and look forward to increasing SEAW's influence.

John Tawresay, Chair, johtaw@aol.com

-Committee Reports continued next page



Have you registered yet?

SEA Northwest Conference 2007
TWISTING, TURNING and LEARNING
the 2006 International Building Code

September 13-15, 2007 • Sheraton Hotel, Seattle

Info at: www.seaw.org

Annual Committee Reports

Disaster Preparedness

& Response

Paul Brallier, Chair

This last year our committee pushed ahead on several fronts:

- The committee name was changed from "Emergency Preparedness" to "**Disaster Preparedness and Response.**" This change better reflects our objective and makes our committee name consistent with a similar committee run by local architects. Speaking of which, we lost Craig Webster, AIA, in a tragic airplane accident in May of this year. Craig had been a member of our committee as a coordinator with the Seattle area architects' Disaster Preparedness and Response Committee. His experience inspecting buildings after Hurricane Katrina has been helpful in encouraging a federal Good Samaritan law for Professional Engineers, Architects and Contractors that has been proposed in the U.S. Congress.
- King County DDES, in cooperation with the City of Bellevue and the City of Seattle, is preparing a system to register Engineers and Architects as Volunteer Emergency Workers. We have been working with King County to review the registration forms and submit sample applications to work out the bugs in the system. This is an important step in making

us available to respond to disasters as pre-screened and authorized volunteers. It is also important to be connected directly with the Building Officials in the county, because

-the Building Officials will be the authority having jurisdiction to evaluate and post buildings after a disaster;

-the Building Officials best understand the roll that engineers can play in rapid evaluation of structures;

-the Building Officials understand the magnitude of effort that will be required to evaluate thousands of buildings after a major disaster.

We will continue to investigate the potential of using this registration as a means to make our volunteers available for out-of-state disasters through the mutual aid agreements between the local and affected agencies.

We look forward to finalizing the volunteer registration procedures and commencing a statewide registration of Volunteer Emergency Workers for SEAW members in the fall of 2007. Volunteers will need to be Registered Professional Engineers, taken an ATC-20 course in the last 4 years, have a valid drivers license, have automobile insurance and have a background check by the King County Sheriff.

We wish to thank the efforts of Chris Ricketts, King County DDES; Bernard Moore, King County DDES; Mike Dykeman, King County DDES; and former committee members John Su, City of Seattle and Gregg Schrader, City of Bellevue for this progress in the Volunteer Emergency Worker registration program.

• To facilitate contacting SEAW volunteer emergency workers during a disaster we would like to request that the Board consider publishing the SEAW directory on a biannual basis. Having hard copy backups of the member's contact information will greatly facilitate communications if there are large power outages associated with a disaster.

• Paul Brallier was elected the Committee Chairman, replacing Dave Swanson who had served as chairman for a number of years. Thanks, Dave for your valuable service.

• In the coming year the Disaster Preparedness Committee is planning on running a volunteer emergency worker registration drive, training additional instructors of the ATC 20 course, and presenting an ATC 20 course.

Paul Brallier, Chair

paul.brallier@I405.wsdot.wa.gov

NCSEA 2007 Current Events

The **15th Annual NCSEA Conference** will be held this October 11-13 in Philadelphia, PA. NCSEA is now 41 Member Organizations strong and growing, and was well represented by most of them at last year's annual conference in Salt Lake City. On Friday evening of this year's conference, NCSEA will hold a Black-Tie celebration commemorating its 15th Anniversary of existence with a look back at events that have shaped the organization from inception to date. There is a possibility that a future host site of NCSEA's Fall Conference, when it returns to the western region, could be at The Coeur d'Alene Resort in Idaho. Members of the SEAW Spokane chapter might be able to partner with the Idaho structural engineers to bring the annual NCSEA fall conference back to the Pacific Northwest in a couple of years.

The NCSEA is calling for entries for the annual **2007 NCSEA Excellence in Structural Engineering Awards** Program. The purpose of the program is to recognize creative achievement and innovation in structural engineering. Projects must have been substantially completed between January 1, 2004 and December 31, 2006. The submittals will be judged based on the quality of the structural design portion of the project. All entries must

be received at the NCSEA office by 4:00 PM on Friday, July 20, 2007. The awards will be presented at the NCSEA Annual Conference Awards Banquet, to be held in the Hyatt Regency at Penn's Landing in Philadelphia, PA, on Saturday evening, October 13, 2007.

The judging for this year's **NCSEA Excellence in Structural Engineering awards** is currently scheduled for either the day before or the day after the NCSEA Board Meeting in Chicago on July 27. Carrie Johnson, who currently is in charge of running the program, is trying to gather a prestigious panel of judges from throughout the country to meet in Chicago and judge the project entries. There are still several openings available for the panel of judges. If you or any other SEAW member knows someone you would recommend as a judge, please e-mail the name and contact information to Carrie - cjohnson@wallacesc.com.

NCSEA, in the past year, has begun to sponsor **Webinars for Continuing Education**. In addition to providing income for the organization, the 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 offices via a simple computer hook-up to the internet, and get continuing engineering credit for doing so. Upcoming

NCSEA-sponsored Webinars include the following:

September 25th: Foreseeing the Testimony of an Expert Witness

October 17th: Masonry Tall-Walls Using Strength Design

November 20th: ASCE 7-05 Simplified Approach to Wind Load Design for Buildings up to 160 Feet in Height

NCSEA is promoting passage of HR 2067, **the Good Samaritan Protection for Construction, Architectural, and Engineering Volunteers Act**, which has been introduced in the Congressional House of Representatives by six sponsors. The bill would provide the subject entities with qualified immunity from liability for negligence when providing services or equipment on a volunteer basis in response to a declared emergency or disaster. The proposed bill makes it clear that immunity is intended to be applied across the United States. Members of the Committee on the Judiciary will be the first to hear the bill, which has not been set for a hearing date as yet. It is requested that all SEA State Board members send a support letter on their letterhead and regional associations distribute information on the proposed legislation to their

continued next page

Annual Committee Reports

NCSEA continued from page 8 membership at the earliest possible time, urging individuals and firms to send support letters to their Representatives at both their Washington DC and local district offices. The bill can be printed out by going to the web site <http://thomas.loc.gov>. While some states already have local Good Samaritan Volunteer protection laws for engineers providing post-disaster investigations, this law would give greater legal protection on the Federal Level to all US jurisdictions.

STRUCTURE Magazine is the premier national periodical for our profession. As you all know, the magazine has dramatically improved over the past several years. The ongoing challenge for the editorial staff is to get quality articles of interest into the magazine in a timely manner. The editors therefore encourage all members of NCSEA's Member Organizations to prepare and submit articles for publication in the magazine. This is a great way to get your name, as well as your firm's name, in front of a large percentage of those in our profession.

The NCSEA **Diamond Review Program** was set-up to assist structural engineers in obtaining continuing education in a painless manner, while facilitating the ability of providers of various types of seminars and educational programs to be able to offer continuing education credits for their programs. The way the Diamond Review Program operates is that a provider of continuing education will submit information on its intended program to NCSEA for review and certification as eligible for continuing education credit. Once the program has received a successful review, anyone who attends the certified program can claim continuing education credit for it. The program will be open to a wide range of continuing education providers, including professional associations and individual member organizations. It will also be open to vendors of construction products and services.

The NCSEA recently developed its **5-year Strategic Plan** for the years 2006-2010. The plan includes an updated Mission Statement and a list of specific goals and objectives which will strive to strengthen our profession, the practice of structural engineering, and the organization. The NCSEA serves to advance the practice of structural engineering and; as the national voice for practicing structural engineers; protect the public's right to safe, sustainable, and cost effective buildings, bridges and other structures. Goals related to the 5-year NCSEA Strategic Plan include the following:

- Raise the bar and improve the practice of Structural Engineers. NCSEA will continue to support CASE and SEI programs that improve the practice.

- Promote and work toward separate licensure and uniform SE Practice Acts for all state jurisdictions.
- Strengthen the Structural Engineering profession on a national basis through a model NCSEA Advocacy Committee, which would improve recognition of SE's across the country and assist in educating the public regarding what structural engineers do.
- Improve building codes by having NCSEA's Code Advisory Committee (CAC) move the One Voice initiative forward in an effort to effectively modify code provisions with a unified voice. As part of the One Voice initiative, the CAC recently established a Joint Committee on Structural Integrity, to work alongside ICC's Terrorist Resistant Building Sub-Committee on the introduction of reasonable progressive collapse provisions into future building codes.
- Work to establish Structural Engineering as a formal degree program at many of our nation's universities.

- Establish a Code of Ethics for practicing structural engineers.
- Establish a national Structural Engineering Emergency Response (SEER) network to link state SEER groups. Each state SEA should contact their state Office of Emergency management, provide a central contact, and establish legal liability protection for those responding under SEER.
- Develop a nationally applicable policy for the technical role of the Structural Engineer in construction quality assurance. The NCSEA QA/QC Sub-Committee of the CAC will develop a consensus model on recommended, structural quality assurance, while continuing to improve and clarify IBC Chapter 17.

Take a look at NCSEA's web site www.ncsea.com for additional information on these and other topics as well as a schedule of upcoming events.

John Riley is SEAW's representative to NCSEA. He can be reached at jhriley@quantumce.com.



10th Annual Golf "Fun"draiser

To support the efforts of the Architects & Engineers Legislative Council

Component Organizations

- ACEC**
American Council of Engineering Companies of WA
- AAA**
American Institute of Architects/Washington Council
- ASCE**
American Society of Civil Engineers
- IEEE**
Institute of Electrical and Electronic Engineers
- LSAW**
Lead Surveyors Association of Washington
- SEAW**
Structural Engineers Association of Washington
- WSPE**
Washington Society of Professional Engineers
- ASLA**
Washington Chapter/Boardman Society of Landscape Architects

Eight trade associations and professional societies comprise AELC. It provides an organization for associations and/or organizations of architects and architectural firms, engineers and engineering firms in Washington State to work cooperatively on legislative objectives and issues for the improvement of business conditions. 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, October 5, 2007

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

AELC GOLF TOURNAMENT REGISTRATION FORM

Name: _____ Firm: _____ ORG _____ Size _____ Ave. Score/HDCP: _____

Name: _____ Firm: _____ ORG _____ Size _____ Ave. Score/HDCP: _____

Name: _____ Firm: _____ ORG _____ Size _____ Ave. Score/HDCP: _____

Name: _____ Firm: _____ ORG _____ Size _____ Ave. Score/HDCP: _____

Total number of players _____ X \$175 per person = \$ _____

Please mail form and entry fee to AELC GOLF TOURNAMENT,
700 112nd Ave. NE, #207, Bellevue, WA 98004
For information call (425) 453-8855

Deadline for Registration is September 25, 2007



Twisting, Turning and Learning the 2006 International Building Code (IBC)

Photograph courtesy of Seattle Municipal Archives

The SEAW Seattle Chapter
is proud to present...



THE 2007 SEA NORTHWEST CONFERENCE
September 13—15, 2007 in Seattle, Washington



**Mark your Calendar! September 13—15, 2007 is
The 2007 SEA Northwest Conference's
Twisting, Turning and Learning the IBC 2006**

Special guest presentations by:

Paul Dorpat, Seattle Chronicler and editor of the Seattle Times Pacific Northwest Magazine Column "Then and Now", and co-author of the recently published "Washington Then and Now", **speaking on the development of Washington State.**

Dan Doyle, Executive Vice President of Venue Construction for the 2010 Winter Olympics in Vancouver, BC will be **speaking on the many challenges of hosting the 2010 Olympic & Paralympic Games.**

Mahmoud Kamara, Ph.D. of the Portland Cement Association will be speaking on "**Multi-hazard Design of Concrete Buildings**".

Technical Topics will Include:

An Overview of the 2006 IBC/ASCE 7-05
What's New in Seismic Design
Nonstructural Seismic Bracing Requirements
Fire/Life Safety, Fire Protection, & Mechanical, Electrical, &
Plumbing System Considerations
Foundation Design using the 2006 IBC
Introduction to the 2006 International Existing Building Code
Panel Discussion—Enforcing the IBC

And for Fun....

Relax and sail with us Friday night on the **Argosy Dinner Cruise!** Enjoy a 3-hour dinner buffet as we cruise along the Seattle shores and enjoy the views at sunset. Sign up early, though, this popular event fills up quickly!

Show off your swing on Saturday at the **Golf Tournament** in Redmond! Prizes will be awarded afterward at a **Family BBQ.**

Location, Location, Location!

Conference location and Accommodations are provided by the newly expanded **Sheraton Seattle Hotel.** Located in the heart of Seattle's Business and Shopping District, the Sheraton is conveniently located within walking distance to some of the best shopping and tourist destinations of Seattle.

Check upcoming publications of The Equilibrium for registration information and a schedule of events. Or, visit the Structural Engineers Association of Washington's website at: www.seaw.org

We're looking forward to seeing you there!

Annual Committee Reports

AELC 2007 Legislative Session Final Report

SEAW has long been a member of the Architects & Engineers Legislative Council (AELC), participating in the review and rating of bills before the legislature and providing testimony at pertinent hearings. In addition to promoting the passage of SSB 5984, SEAW's Structural Engineering Practice Act, AELC was involved in a multitude of other issues. Here is a recap of the 2007 legislative session relating to AELC interests.

Liability

New Home Warranties (SSB 5550 – DIED). SSB 5550 garnered much attention this legislative session as a controversial attempt to hold residential builders and design professionals liable for construction defects beyond the six-year Builder Limitation Statute. Sponsored by Senator Brian Weinstein (D-Mercer Island), a plaintiff's lawyer and chair of the Senate Consumer Protection & Housing Committee, the bill would have required warranties for up to ten years on various aspects of new home construction. AELC joined the Washington Construction Industry Council, the insurance industry and various other business interests in vigorously opposing the bill on the grounds that it would raise insurance rates for builders, thus increasing costs for home buyers and destabilizing construction insurance markets. The bill died in the House when Speaker Frank Chopp (D-Seattle) refused to bring it to the floor for a vote, requesting that the Legislature study the issue further before enacting sweeping changes to the law. *AELC Rating: Oppose High*

Certificate of Merit for Design Professionals (SB 5833 – DIED). AELC advocated strongly for this measure that would protect design professionals from excessive and unwarranted litigation. Similar to the provision found in the medical malpractice reform passed in 2006, SB 5833 would have required claimants to file a certificate of merit at the time of filing a claim against a design professional in cases of an alleged violation of the standard of care. The bill had a hearing in the Senate Judiciary Committee and subsequently passed out of committee despite opposition from the plaintiff trial lawyers association. The bill died in the Rules Committee. *AELC Rating: Support High*

Regulatory Issues

Vesting (SB 5507 – DIED). SB 5507 would have repealed vesting-related provisions with respect to various state laws pertaining to land use and property development, including all statutes pertaining to "development agreements." This would have eliminated the legal

basis for the creation of development agreements as part of the local project review process and expose developers and design professionals to changing local ordinances after an application has been approved and construction begun. AELC joined others in the construction industry, developers and the business community in arguing that if building rules and regulations are subject to change even after a builder has submitted an application, the cost of building and home buying will increase and the costs of increased risks will simply shift onto the public. The bill was successfully blocked in the Senate Rules Committee and was not brought to the floor for a vote. *AELC Rating: Oppose Medium*

Licensing

Structural Engineering (SSB 5984 – PASSED) (Chapter 193, Laws of 2007; effective date July 1, 2008). SSB 5984 requires a structural engineer to provide engineering services in the design of significant structures. The Structural Engineers Association of Washington has sought this change for many years and was successful this legislative session in passing the bill which provides a statutory basis for attaining a structural engineering license. *AELC Rating: Support*

Soil Scientists (HB 1318/HB 2324 – DIED). Once again a proposal was brought before the Legislature to license soil scientists, and once again it was unsuccessful. Opposed by AELC, HB 1318 died when it was not brought to a vote in the House Commerce & Labor Committee. HB 2324, a title act, was later introduced that would provide for the certification of soil scientists and relevant standards of conduct. HB 2324 passed out of committee but was not brought for a vote in the House Appropriations Committee. *AELC Rating: Oppose*

Land Surveyors (HB 1184 – DIED). During the 2006 legislative session, the Land Surveyors Association of Washington sought this change to state code concerning the definition of surveying. The proposal was met with strong opposition and held in committee. After working with stakeholders through the interim to address their concerns, HB 1184 was introduced in 2007, but was not granted a hearing in the House Commerce & Labor Committee because of continued opposition. *AELC Rating: Support Low*

Landscape Architects (SSB 5746 – DIED). The American Society of Landscape Architects backed this proposal to regulate the practice of landscape architecture in Washington State. Though the bill was met with opposition from the nursery and landscape association and landscape designers, it was passed out of the Senate Labor, Commerce, Research & Development Committee. The

bill however did not survive a cutoff date to be passed out of its house of origin and instead was held in the Rules Committee. *AELC Rating: Support Low*

Government Contracting

Alternative Public Works/CPARB (2SHB 1506 – PASSED) (Chapter 494, Laws of 2007; effective date July 1, 2007). The Capital Projects Advisory Review Board (CPARB) was established in 2005 to evaluate the use of alternative public works contracting procedures, including design-build and general contractor/construction manager. These methods, employed by public agencies in public works contracting, were limited to a number of entities and set to expire in June of 2007. At the recommendation of CPARB, the use of alternative public works is expanded and also extended to 2014. The bill creates a project review committee to certify public owners and projects for design-build and GC/CM. Certified public owners will be approved to use design-build or GC/CM for all projects over \$10 million and must seek project by project approval for jobs under \$10 million. *AELC Rating: Monitor*

GENERAL BUSINESS ISSUES

Transportation Budget 2007-2009 (ESHB 1094 – PASSED). Despite projected shortfalls in funding for existing projects, the Legislature passed a transportation budget that manages to uphold existing commitments. The budget addresses additional project costs by authorizing additional bonds which take advantage of remaining capacity in the capital construction accounts. The Department of Transportation engineers produced a report in April through their local union that was highly critical of contracting out the design work for transportation projects to private design firms. AELC is working cooperatively with the American Council of Engineering Companies to provide an appropriate response to that report.

Biennial Operating Budget 2007-2009 (SHB 1128 – PASSED). The Legislature settled on a two-year budget of more than \$33 billion. The \$4 billion in new spending represents an increase of 17%, more than double the 7.5% increase in revenue. Though lawmakers did leave \$724 million in a rainy day fund, the total spending increase over the last two biennial operating budgets exceeds 30%. Business organizations have repeatedly pointed out that even in the most optimistic of economic forecasts, revenue simply cannot keep pace with spending the state has undertaken in the last several years.

If you would like to participate in the legislative process as it relates to SEAW, contact Robert Bourdages, SEAW Legislative Chair, at rbourdages@pdg-wa.com.



STRUCTURAL ENGINEERS ASSOCIATION OF WASHINGTON

With the cooperation of the
UNIVERSITY OF WASHINGTON DEPARTMENT OF CIVIL ENGINEERING *presents*

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A Refresher Course designed to assist those engineers preparing for the
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Twelve two-hour lectures will present information dealing with:

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Speakers include experienced structural engineers from the Seattle area.
Registrants will receive comprehensive notes for each lecture. For further information,
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Just want to brush up on your skills?

Take advantage of our “Half Refreshed” option. Choose any six sessions for
a reduced rate. Whatever your level of experience or number of licenses, you
will appreciate this opportunity to learn from the masters. Choose any six of
these terrific presentations. Meet your friends and colleagues.

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REGISTRATION DEADLINE:
Friday, July 27, 2007

See page 2 for course schedule and registration form

SEAW REFRESHER COURSE 2007

August 2—September 18, 2007

Room 220 More Hall, University of Washington, Seattle

SCHEDULE AND REGISTRATION FORM

✓	DATE	DAY	TOPIC	INSTRUCTOR
<input type="checkbox"/>	August 2	Thu	Lateral Forces I	Adam Ludwig, PE, SE
<input type="checkbox"/>	August 7	Tue	Lateral Forces II	Magnusson Klemencic Associates
<input type="checkbox"/>	August 9	Thu	Analysis	Bruce Erickson, PE, SE KPFF Consulting Engineers, Inc
<input type="checkbox"/>	August 14	Tue	Concrete Design I	Cary Kopczynski, PE, SE
<input type="checkbox"/>	August 16	Thu	Concrete Design II	Cary Kopczynski & Co, PS
<input type="checkbox"/>	August 21	Tue	Structural Steel Design I	Brian Glover, PE, SE
<input type="checkbox"/>	August 23	Thu	Structural Steel Design II	Arup
<input type="checkbox"/>	August 28	Tue	Prestressed Concrete	Rick Fine, PE, SE Fine Engineering
<input type="checkbox"/>	September 4	Tue	Wood Structures Design I	Peter J. Hart, PE, SE
<input type="checkbox"/>	September 6	Thu	Wood Structures Design II	CT Engineering, PLLC
<input type="checkbox"/>	September 11	Tue	Masonry Design	Steve Dill, PE, SE KPFF Consulting Engineers, Inc
<input type="checkbox"/>	September 18	Tue	Foundations	Andrew McGlenn, PE, SE Jacobs Associates

Get "Half Refreshed"! Choose any six sessions for a reduced rate. Whatever your level of experience or number of licenses, you will appreciate this opportunity to learn from the masters.

Can't attend? Order the course notes by July 27th and they will be shipped to you the first week of the course. (Washington addresses please add 8.4% sales tax to your order)

SEAW Refresher Course Register online at www.seaw.org or use the form below. Registration Deadline is Friday, July 27, 2007

Name: _____

Company (if using Co mailing address) _____

Mailing Address: _____

City _____ State _____ Zip _____

Daytime phone: _____ E-mail: _____

Method of Payment Check or Money Order enclosed
 Please charge my MasterCard/VISA

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Authorized Signature _____

MAIL FORM & PAYMENT TO:
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Credit Card Orders may be faxed to 360/753-1838

FEE: (Please check one)

- Refresher Course & Notes
 - SEAW Member \$300.00
 - Non-Member \$350.00

- "Half Refreshed": Choose six sessions & corresponding notes. **Please mark sessions above**
 - SEAW Member \$192.00
 - Non-Member \$240.00

- Notes Only: Available August 2. **WA State addresses, please add 8.4% sales tax to your order.**

- SEAW Member \$192.00
- Non-Member \$240.00

Financial Report 2007

2006-2007 has been another great year for SEAW. At right is a listing of the 2007 budget. Dues are our largest source of income. Seminars are another significant, though variable, source of income. As usual, the 2007 budget is based on a quite conservative estimate of seminar income. In spite of the budgeted deficit, 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 in enough categories that our balances have been increasing. In adopting this 2007 budget the board wanted to provide adequate funding for all items on the list. But they also realized that unbudgeted seminar income and a more likely estimate of overall expenditures result in a much lower likely actual deficit, and that the current accumulated surplus allows for some annual budget deficit without threatening our fiscal security.

On the expense side, the Wind Engineering, Earthquake Engineering, Building, and Code Advisory Committees have continued to participate actively and effectively at the national level. SEAW's effort with regard to code development has proven to be very effective. In some cases it has seemed like we may have had an excessive number of representatives compared to other SEAs. This year the board has reorganized our travel and representation under a new Code Advisory Committee, consisting of a CAC chair (currently John Hooper) and the chairs of the affected committees to direct SEAW's code development representatives and authorize their expenses. We expect the new system to help us control costs. The idea is to try to work through the NCSEA committees as much as possible, rather than appearing to be a separate, competing organization. Our state committees continue to be autonomous, except with regard to code-related travel. They still control other parts of their budgets. The old Code Advisory Committee has now merged with and will be known as the Professional Practices Committee. The new committee names are more in line with the corresponding NCSEA committees.

As usual, funding is provided to continue the work of the Code Advisory, Continuing Education, Scholarship and Emergency Preparedness Committees; to support the Architects & Engineers Legislative Council, National Council of Structural Engineers Associations and Western Council organizations; to produce a newsletter; and to support the scholarship fund and administrative functions. The State organization's annual contribution to the scholarship fund was increased a few years ago to \$3750.

The Scholarship Fund has been developing well. In 2007 we awarded three \$3000 scholarships, the most we've ever provided. We don't expect to repeat that very often. The scholarship committee this year found three candidates to be exceptional.

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

BUDGET 2007

INCOME		EXPENSES	
Cont Ed Inc	4,000	AELC	-10,475
ATC-20	4,000	Assoc. Mgmt Online	
Dues Income		Website Dev	-5,000
SC	1,700	Website Maintenance	-3,000
SE	28,650	ATC	0
SP	4,630	Bank Charges	-2,400
SW	6,810	Building Committee	-1,000
TOTAL Dues	41,790	Code Advisory	-8,000
Interest Earned	2,400	Continuing Ed	-480
MailList-Cert		ATC-20	-2,000
instate	60	Post Sem Notes exp	-180
outofstate	600	Sem Profit Dist	-1,000
TOTAL MailList-Cert	660	Contributions to Organizations	-600
Misc Income	1	CPA & Acctg	-1,010
Newsletter Income	240	Earthquake Engineering	-1,000
NW Conf.	1	Emergency Prep	-400
Publications income		Exam exp	
Post Sem Notes	242	Administrative	-400
TOTAL Publications income	242	Internet Service	-800
Research Inc	1	Lifetime Service Award Exp	-1,000
Scholarship inc	1	Mail List-Certificate exp	-300
Seminar Income		Membership	-120
SC	0	Misc Expense	-1
SE	7,328	NCSEA	-14,000
SP	0	Newsletter	-3,500
SW	893	Plaque	-100
TOTAL Seminar Income	8,221	Pres. Travel	-480
SnowLoadinc		Publications	-1
Instate	360	Research exp	-1
Out of state	240	Roster	-1
TOTAL SnowLoadinc	600	Scholarship exp	
Tax collected	1,200	committee	-200
WindCom Income		fund	-7,500
Instate	1	Secretarial	-12,000
Out of state	1	Snow Load exp	-240
TOTAL WindCom Income	2	State Brd mtgs	-3,000
		Tax exp	-2,000
		Western States	-2,000
		Wind Commentary exp	-1
		Wind Engineering Committee	-1,000
TOTAL INCOME	63,359	TOTAL EXPENSES	85,190
<hr/>		<hr/>	
	Total income:		63,359
	Total expenses:		-85,190
	Projected Max. Deficit		-21,831

Publications Available from SEAW

Item	Price
Snow Load Analysis for Washington /Supplemental Design Examples	\$35.00
Supplemental Design Examples only	\$10.00
2002 Seismic Evaluation & Rehabilitation Seminar notes on CD	\$30.00
Kobe Earthquake Reconnaissance Report	\$20.00
SEAW/FEMA Analysis of Structural Failures due to Holiday Storms	\$5.00
FEMA 352: Recommended Post-earthquake Evaluation & Repair Criteria for Welded Steel Moment-Frame Buildings	\$5.00

Order form on page 12

News of Note

Seattle Chapter Names Michael Valley its 2007 Engineer of the Year

The Seattle Chapter presented its Engineer of the Year Award to Michael Valley at its April 29th dinner meeting. 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.

Visibility

Mike has been a very visible member of the engineering community. He is just completing his seventh year as chair of the Earthquake Engineering Committee. In this role he has worked diligently to promote good building codes, and to represent SEAW before our sister organizations, such as SEAOC, as well as in the IBC, NEHRP, and SEI forums. Examples of this visibility include participation in the code development process, testimony before committees of the Washington state legislature, work on the Seattle Fault Scenario report, and countless technical presentations.

Service to SEAW and the profession

Being the chair of the Earthquake Engineering Committee is almost a full time job. The committee has 19 voting and 60 corresponding members. Mike handles the logistics: setting the agendas, arranging the venue, chairing the meetings, and distributing the minutes. However, as with most committee activity, the real work lies in selecting tasks, starting them thoughtfully, keeping the efforts moving forward through coordination with others, and putting on the finishing touches.

Under his leadership the EEC has developed several Task Groups, which presently address Geotechnical, Concrete, Light-framed Construction, and Existing Buildings issues. Mike has served as a writer and technical editor for several seismic design documents including FEMA 356, FEMA 450, FEMA 451, ASCE 7-05, ASCE 41, and the 2008

NEHRP Recommended

Provisions and Commentary. He has also participated in several Applied Technology Council projects. As a member of the American Society of Civil Engineers (ASCE) Committee for Seismic Rehabilitation of Existing Buildings Standards, Mike has been intimately involved in the update and revision of an evaluation standard (ASCE 31) and a rehabilitation standard (ASCE 41).

Technical Expertise

Through his project experience and technical committee work, Mike has developed special expertise in seismic design, foundation analysis and design, and development of codes and standards. In addition to his work in developing performance-based seismic design approaches, he has applied those approaches to both new and existing construction, especially where enhanced seismic performance is desired (as for hospitals and other essential facilities). His recently designed essential fa-



Mike Valley (l) receives the 2007 Engineer of the Year Award from Seattle Chapter President Ade Bright

cilities include Bellevue City Hall; the Seattle Command Center; and a new emergency department, ICU, and bed tower at Valley Medical Center.

Ability to Nurture

Mike nurtures the engineers who work for him and helps them develop professionally and appreciate the complexities of engineering design and code compliance; he also encourages younger engineers to participate in the activities of SEAW and its Earthquake Engineering Committee. In addition to providing one-on-one training and making in-house presentations, he has made formal presentations on seismic evaluation, rehabilitation, analysis, and design at dozens of seminars and conferences, some of which he also organized.

SEAW congratulates Mike Valley on this well-deserved award.

Seattle Chapter Membership Postings

Membership Applications

Steven Edmiston

DCI Engineers Inc
BSCE 2000 Walla Walla College
Class: Associate

Satendra P. Jain

Washington Group International
BSCE '68 University of Delhi, India
MSCE '71 University of Washington
Licensed Structural, WA
Class: MEMBER

Benjamin Mitchell

KPFF Consulting Engineers
BSE 1999, University of Iowa
Class: Associate

Brandon Kotulka

Magnusson Klemencic Associates
BAE 5/06, Penn State University
MSE 6/07, University of WA
Class: Associate

Accepted Applications

May: **Drew A. Graham**
PCS Structural
Associate

Lori Shields

Trus Joist
Affiliate

June: **Wayne Brown**
Student, UW

Lois Loesch

EES Consulting
Professional Associate

Jacob McCann

KPFF Consulting Engrs
Associate

Jeff Michelson

Student, UW

Catherine Poshusta

Student, UW

Gregory Rogers

Magnusson Klemencic
Associate

Lara Simmons

Swenson Say Faget
Professional Associate

Shellie Simmons

Student, UW

Ken Smolarek

Buckeye Building Fibers,
Affiliate

Ryan Thody

Coughlin Porter Lundeen
Associate

Melissa K White

Swenson Say Faget
Associate

Barry Wenger

Student, UW

Mark W Vinson

Parsons Brinckerhoff
Professional Associate

Announcements

SEAW Refresher Course 2007 Begins August 2nd

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 2 through September 18th, 2007. 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.

For details, see flyer in this issue or visit www.seaw.org.

SEAW Fall Seminar to Cover IBC 2006 Seismic Provisions

SEAW is pleased to announce its "Seismic Design Using the 2006 IBC and ASCE 7-05" Seminar, to be held in four locations this fall.

Many of the structural design requirements of the 2006 IBC, which took effect on July 1, appear in the ASCE 7-05 standard, which has been significantly reorganized and rewritten. The upcoming seminar will address changes to design requirements in these documents and other reference standards.

Dates and locations:

Portland: Thursday, October 4, 2007; McMenamins Edgefield

Seattle: Saturday, October 13, 2007; UW Kane Hall

Spokane: Thursday, November 2, 2007; (venue TBD)

Tri-Cities: Friday, November 2, 2007 (venue TBD)

Watch the SEAW website. www.seaw.org, in September for details and registration information.

WSSPC Annual Conference

The Western States Seismic Policy Council cordially invites you to register now for its 2007 Annual Conference, held in conjunction with the International Code Council's education program, September 30 - October 3, 2007 in Reno, Nevada.

"Risk Communication, Building Codes, and Consequences: The Future of Earthquake Safety in the U.S." features the Nation's top-caliber scientists, emergency managers and engineers speaking about the National Earthquake Hazards Reduction Program; earthquake provisions in the International Building Code; creating a new generation of effective earthquake safety, preparedness, and mitigation messages; performance based engineering issues; and earthquake disaster scenarios for major cities in the United States.

For more information and to register, go to www.wsspc.org/Conference or email us at ac2007@wsspc.org.

WSSPC, 801 K Street, Suite 1436, Sacramento, CA 95814
916-444-6816, www.wsspc.org.

Advanced Log-and Timber Frame Modeling, Joinery Design and Detailing

August 12-16, 2007, Colorado State University Mountain Campus, Pingree Park

This workshop is intended for practicing engineers and frame designers who already have a good understanding of engineering designing with logs and timber. There will be a brief review of the behavior of wood, the allowable stress values in the *National Design Specifications*, and appropriate building codes. The class will then progress to modeling timber frames for analysis and using the analysis results for joinery design. Particular attention will be paid to all-wood joinery design, with metal fasteners introduced as a last resort. Lateral loading of frames will also be discussed, including the possible use of structural insulated panels or other shear elements. The impact of joinery decisions on frame raising will be discussed along with the stresses imparted to the frame during raising. Important timber frame, log and substructure

continued next page

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Announcements

Continued from previous page

ture detailing decisions will also be discussed. Workshop participants are encouraged to bring their own frame designs/drawings to analyze during the lab sessions. Finally, students will get a chance to try their hand at laying out and cutting a simple joint. Log construction will be briefly discussed in the code, lateral load and detailing sessions, and one session will be dedicated to the special requirements of log structure engineering.

For more information, please go to our website, www.rockymountainworkshops.com

ATC and JSCA Announce 12th U.S.-Japan Workshop on Structural design and Construction Practices

The Applied Technology Council (ATC) and the Japan Structural Consultants Association (JSCA) are pleased to announce the *Twelfth U.S.-Japan Workshop on Improvement of Structural Design and Construction Practices*, to be held September 10 - 12, 2007, at the Sheraton Kauai Resort in Kauai, Hawaii.; Prior workshops in this series sponsored jointly by ATC and JSCA have been held in Honolulu (1998, 1984), Kobe (1996, 2005), Victoria (1994, 2000), San Diego (1992), Kailua-Kona (1990), Tokyo (1988), and San Francisco

(1986).; The workshops have provided unique opportunities for leading engineers from the two countries to discuss state-of-the-art structural engineering issues in both formal and informal surroundings.

The program for the 12th Workshop includes technical presentations by structural engineering design practitioners and researchers from Japan and the United States, as well as working group discussions and several social functions. The primary focus of the workshop will be on seismic-design-related issues and sustainability of structures, including functionality in catastrophic events. The Workshop program is expected to include papers on the following topics:

Performance-Based Seismic Design of High-Rise Buildings; Sustainability of Structures and Systems; Functionality of Structures in Catastrophic Events; and Improved Hazard Mitigation Activities.

Workshop Registration. Persons interested in participating in the Workshop may do so on ATC's On-Line Store at www.atcouncil.org. The Workshop registration fee of \$550 includes workshop lunches, break refreshments, workshop preprints, and the all-participants golf tournament.

For detailed information, visit the ATC website at www.atcouncil.org.

NCSEA Annual Conference

The National Council of Structural Engineers Associations will hold its Fifteenth Annual Conference on October 11-13, 2007 in Philadelphia Pennsylvania. Preliminary program highlights for Friday, October 12:

Track 1

- Renovation of Philadelphia City Hall - Case Study
- Facade Restoration - Case Study
- Waterfront Development Challenges
- Document and Record Management
- Electronic Document Delivery - Panel Discussion
- Testing and Inspection Trends and Technology

Track 2

- Working with Historic Buildings - Historic Materials and Methods
- What to Survey When Working With Older Structures
- AISC - Code Changes
- Software Tools - What to Use When
- Continuing Education and Registration Trends

For information and registration, visit www.ncsea.com.



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Opportunities

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Otak's Kirkland office is seeking an Engineer to become an integral part of our Bridge/Structures team in the Seattle area. Qualified candidates must have a minimum of 3 years of experience in designing of bridges and transportation structures. Must be proficient in use of structural analysis & design software including WSDOT Bridge Engineering software; AutoCAD/Softdesk and/or Microstation/Inroads desired. Good written and oral communication skills are desirable. BSCE and Washington PE license (or ability to obtain) is required; MSCE and/or registration as a structural engineer a plus. Please visit us and apply at www.otak.com/careers. We are an Equal Opportunity Employer.

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PCS Structural Solutions is a highly experienced firm of consultants specializing in Structural Solutions for Architecture. We've provided engineering services to architects throughout the Pacific Northwest and California for over 40 years. Our profession requires a diversity of skills learned over the course of an entire career, and understanding and communicating with our clients has a significant impact to our perceived performance – however our technical skills are prerequisites for everything else we do in Structural Engineering. PCS was named one of the *Best Structural Engineering Firms to Work For* by Structural Engineer Magazine.

PCS Structural Solutions is seeking qualified Project Managers and Project Engineers for our growing Seattle office. Project Manager candidates should have excellent technical, communication, and management skills with 6 to 10 years of experience. Project Engineer candidates should have 1 to 5 years of experience, with the desire to manage their own projects and to communicate directly with the client. PCS Structural Solutions offers a great work environment and a competitive compensation package.

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Civil/Structural Engineer

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Experience Required: Typically requires a bachelors degree in Engineering; P.E.; 5+ years of experience.

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Employer JobCode: 060921

Civil / Structural Engineer

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Experience Required: B.S. degree in Civil Engineering; PE license preferred; Experience with foundation, retaining walls, and civil site design work. Familiarity with AutoCADD software, LDD and Civil 3D experience preferred; Strong analytical and technical writing skills; Team player with ability to communicate with clients and staff

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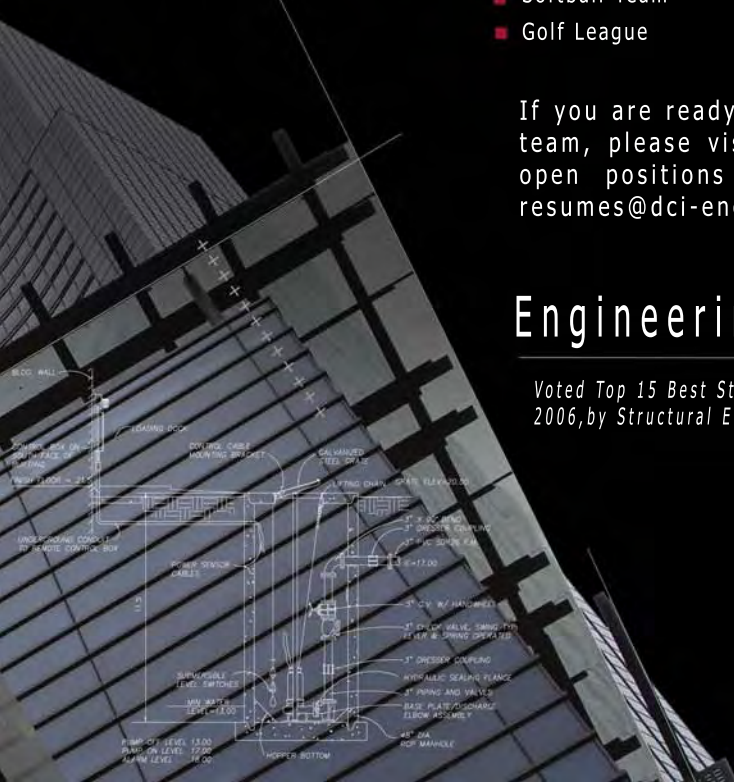
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pedestrian WSF facility structural design construction plans. Requires a BS degree with background in civil or structural engineering and registration as a PE in the branch of structural engineering in the State of Washington or in a state having SE License reciprocity with the State of Washington. For complete position information and application instructions, please visit www.wsdot.wa.gov/employment/jobs.htm and reference 07-WSF-016.

Engineer III

King County Department of Transportation Road Services Division is seeking an Engineer III to support the Bridge & Struc-

tural Design Unit with design of bridges and other roadway structures, project management, investigating and trouble shooting of engineering related issues, plan reviews, bridge load ratings, bridge inspections, and review and approval of shop drawings. Qualified candidates must have knowledge of engineering principles equivalent to a bachelor's degree in civil engineering and minimum two (2) years of progressively responsible experience in structural design and project management. Application required. For additional details and to apply visit: <http://www.metrokc.gov/jobs/assets/07June/6961.htm>. King County is an EEO employer.

ST Martin's University to Offer Evening Classes at TCC

Saint Martin's University will begin offering evening classes at Tacoma Community College starting this fall. The programs are based on a 2+3 program. Two years of work at TCC plus three years of hard evening work through SMU.

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Minimum qualification is an MS in Civil Engineering, Mechanical Engineering, or a closely related field. Instructors are also being sought for math and other related areas.

If you would like to be a part of this great opportunity, please contact:

Vince McClure
Saint Martin's University
vmcclure@stmartin.edu or phone 360-438-4323

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As a service to homeowners, SEAW makes available a registry of engineers available to perform residential work. Although SEAW does not make referrals of professional engineering services, the list gives homeowners a starting place from which to begin their selection process. If you would like to be included on the list, please e-mail your name, company and contact information to Lynnell at the SEAW office: seaw@seaw.org. The residential registry can be viewed on the web at www.seaw.org.

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Info at: www.seaw.org

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 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 May 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.