



STATEWIDE EQUILIBRIUM

annual summer newsletter of the
Structural Engineers Association of Washington

SUMMER, 2008

SEAW Trustees 2008-09

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Andrew McEachern (SW)
AHBL Inc
253/383-2422
dmceachern@ahbl.com

VICE PRESIDENT

Robert Graper (SP)
Integrus Architecture
509/838-8681
rgraper@integrus.net

PAST PRESIDENT

Ade Bright (SE)
Bright Engineering Inc
206/625-3777
ab@brighteng.com

SECRETARY

Mark Anderson (SW)
Anderson-Peyton Struct. Eng.
253/941-9929
manderson@anderson-peyton.com

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Smith & Huston
206/448-8448
smith@smithhoustoninc.com

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Coffman Engineers
509/328-2994
arnholtz@coffman.com

Shelley Clark (SE)
Magnusson Klemencic Assoc.
206/292-1200
sclark@mka.com

R. Scott Douglas (SE)
DCI Engineers Inc
425/827-2238
sdouglas@dc-engineers.com

Peter Opsahl (SE)
Peter A Opsahl Engineering
206/322-4518
peter@pastructural.com

Jill Shuttleworth (SC)
JTS Engineering
509/327-6143
jtsengineering@earthlink.net

John Tate (SC)
John A Tate Consulting Engr
509/972-3079
jatce@charter.net

SEAW Statewide President 2008—2009

Hopefully, you had an opportunity to sit down and watch the webcast of the ICC Code Development Hearings in February. A handful of engineers in our office got together in a conference room over lunch to watch a couple of hours of the hearings. While watching the webcast, one thing that struck us was the number of SEAW members participating in the process. SEAW is one of the few organizations that look out for the interests of consulting structural engineers, with committees full of talented, intelligent, motivated engineers who take time out of their schedules to help our profession. SEAW has been instrumental in helping to pass the recent Washington State SE Practice Act legislation, train hundreds of people each year in ATC-20 building assessments, and improve the building codes we use. This work is primarily done in committees, relying heavily on volunteer effort from small groups of SEAW members.

One of the challenges facing SEAW, however, is the varied membership. Members range from principals of some of the largest structural engineering firms in the country, to sole proprietors working out of their houses. SEAW members work on projects ranging from high rise towers or long span bridges, to seismic bracing of mechanical equipment or other building components. Professional experience of our members ranges from several months to several decades. This wide range of engineering experience and professional



Andrew McEachern, 2008-2009 SEAW State President

concerns makes it difficult to provide monthly meetings or seminars that all members will want to attend. Needless to say, the board members of the various chapters spend a lot of time discussing how to increase participation and bring value to SEAW members.

One thing I have noticed about most engineers is that they tend to have strong opinions about certain issues. I have heard plenty of comments about the complexity of the code, the speed with which projects must be designed and documented, along with a myriad of other engineering related subjects. For example, the anchorage provisions of Appendix D of ACI 318 were discussed at our recent state board meeting. The conversation involved difficulties engineers are currently having related to imple-

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The SEAW Statewide *Equilibrium* is printed annually in July. Circulation by mail and email is approximately 935 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.

The Year in Review

The following is a summary of the significant highlights of the State SEAW activities and news for this past fiscal year.

- The board approved the formation of the Existing Building Committee (EBC), formerly a task group under the Earthquake Engineering Committee (EEC). This action was taken to meet the changing scope and needs of technical/professional demand in the area of existing building topics related to code, seismic, and non-seismic issues. A seminar on existing buildings is planned for Fall 2008.
- The Education Committee is back in full swing, holding a two-part seminar on Serviceability. The first part, held

in March, was on Floor Vibration, with Professor Thomas Murray as the Keynote Presenter; and the second part, held in May, was on Concrete Floors, with Professor Bijan Aalami as Keynote Presenter. Our members covered practical aspects of each topic during the second half of each seminar. Both seminars were successful, well attended, and worthwhile, based on comments from participants.

- The board approved Tom Xia as new chair of the EEC.
- At the last International Code Council (ICC) code change hearing, SEAW was very successful, with a number of proposed code

changes that were accepted. This success is largely due to the coordinated efforts of all the committees involved under the umbrella of the Code Advisory Committee (CAC). This effort will result in future code simplification.

I would like to express my sincere gratitude to all members of our committees for their effort and dedication. It is because of this that successful changes are being made.

I would also like to encourage those who are not members of a committee to participate in one, even as a corresponding member. It is one thing to want change, but a much greater thing to participate in making change happen.

Lastly, I would like to thank the outgoing SEAW trustees for working to make sure that



our SEAW is a national model, and I am confident that the new trustees will further our success.

It has been a great pleasure to have served as State President for 2007-2008. Thank you for giving me the opportunity to serve you.

-Ade Bright
ab@brighteng.com

State SEAW President

(Continued from page 1)

menting the provisions of Appendix D, along with steps that are being taken (with help from members of SEAW) to modify the sections of Appendix D that are "broken". I have discussed Appendix D with co-workers, as well as representatives of concrete anchor manufacturers, and know that the implementation of Appendix D requirements in western Washington is a little sporadic. What is difficult to gauge is the level of interest from SEAW members a discussion on this topic will attract. Regardless of the type of engineering work you do, I would encourage you to share your engineering challenges or concerns with your local chapter of SEAW. Sharing these concerns will enable SEAW to target the issues that are affecting a majority of structural engineers, and better serve the membership of

SEAW.

I look forward to serving the membership of SEAW as the 2008-2009 State President. If there is anything that you think SEAW can do better to serve you, feel free to contact me at dmceachern@ahbl.com.

Drew McEachern is a project manager in the structural engineering division of AHBL. He has 14 years of professional experience, including two years in construction management, with experience designing educational facilities, civic centers, municipal maintenance facilities, and office buildings. Drew graduated in 1995 from the University of Southern California's Building Science Program, where he earned a Bachelor of Science with a Civil Engineering emphasis. Drew is also a member of the American Institute of Steel Construction.

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.

Scholarships Awarded to Three Candidates

Three applicants were chosen this spring to receive a 2008 SEAW Scholarship. The successful candidates are Brian Walkenhauer and David Street, both of Washington State University, and Matthew Klein of Walla Walla University.

Brian Walkenhauer completed his B.S. degree at WSU in May, 2008, and will pursue a Masters degree in Structural Engineering beginning in August.

Brian is a 2004 graduate of West Valley High School in Yakima. During his college career, he has served in the Student chapter of ASCE as Secretary, Vice President, and President, and has participated on the ASCE Concrete Canoe Team as a member and co-captain. He was co-captain of the ASCE Steel Bridge Team for 2007-2008. Brian has been a member of Tau Beta Pi club, most recently serving as its Vice President. In the community, he has participated as a mentor for the High School Science Bowl Team and for elementary school children, and serves with the Adopt-A-Highway Litter Control Program. Brian states, "I am attracted to structural engineering because of the great variety of different projects that are available to work on as well as the fact that I believe a career in this field will be both challenging and very rewarding."



Mennonite boss where he learned to work without electric tools or internal combustion engines, riding to job sites in a horse-drawn buggy. After high school, Matthew spent 6 years working in the residential and commercial construction industries leading to his decision to pursue a career in structural engineering. Matthew is a member of ASCE, Engineers Without Borders, Engineering Ambassadors, ACI, ICC, and National Scholars Honor Society, and plays with the Walla Walla University String Orchestra. In addition, he is a recipient of the United States Achievement Academy Collegiate All-American Scholar in Engineering Award.

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 \$81,750 has been awarded to forty-four students representing the University of Washington, Washington State University, Gonzaga University, University of Idaho, University of California, Berkeley, and with this year's awards, Walla Walla University. 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.

David Street is a Senior at Washington State University, where he will graduate in December with degrees in Civil Engineering and Spanish. He plans to attend graduate school to study seismic performance of structures. David is a member of Tau Beta



Pi, ASCE, National Society of Collegiate Scholars, and is Vice President of the Honors Student Advisory Council. In addition, he is a member of the Cougar Marching Band's trumpet section. David aspires to combine his interest in structures with public service, and hopes to travel to a developing nation to combine his technical engineering skills with his interest in improving society.

Matthew Klein received his BSCE from Walla Walla University in June and will begin graduate studies in the fall. Matthew was home schooled, graduating in 1996. At 16 he began work as a carpenter's helper for an Old-order

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

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

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Annual Chapter Reports

Seattle Chapter

Departing from the Board after serving their terms are Past President Ade Bright, and board members Dan Lake and Peter Somers.

Incoming President is Scott Douglas and our new Vice President is Peter Opsahl. We have 3 new board members this year. The third position is a one year term to fill Peter Opsahl's vacated board position. New Board members Howard Burton and Mark Moorleghan will serve for 2-years and Dennis Pradere will serve a one-year term.

Younger Member Forum (YMF)

This was another productive year for the YMF with membership and activities steadily increasing. The Seattle Chapter Board voted this year to extend a non-voting board position to the chair of the YMF. This liaison between the board and the YMF will give representation on the board to the next generation of structural engineers. The YMF also had their first election of officers. We welcome the new chair, Melissa White; Vice-chair, Jessica Jenness; Outreach Representative, Shawn Roberge; and Social Representative, Robyn Lee.

Activities:

The Seattle Chapter hosted a very successful 2007 Northwest Conference in downtown Seattle September 13-15, 2007. We achieved record breaking attendance and the conference program included many engaging and interesting speakers.

Other successful events included the fall seismic seminars and the spring serviceability seminars organized by the Education Committee.

We also had a number of outstanding dinner meeting speakers and had our first ever lunch meeting. The lunch format appears to be quite successful and the Seattle Chapter will

continue to have a mixture of lunch and dinner meetings in the upcoming year.

Ade Bright was named the Seattle Chapter Engineer of the Year in recognition for all of his hard work and dedication as Past President of the Seattle Chapter as well as our SEAW state president. Ade also spent countless hours working with the NW Conference planning committee.

Membership:

As of the end of 2007, our membership reached all-time record of 629. This represents an increase of 72 members from 2006. As of the end of April, 2008 the Seattle Chapter membership stands at 638. Our thanks go out to those of you who have sponsored new members and passed the word. Keep it up!

Upcoming Events:

Our next chapter meeting will be held at the Corinthian Yacht Club at the Shilshole Bay Marina. Committee representatives will be on hand to discuss committee activities. This will be the perfect time for anyone interested to join a committee.

-Shelley Clark,
Outgoing President

Spokane Chapter

The Spokane Chapter benefited from another year of great lunch presentations, seminars and outstanding member attendance. Lunch presentations included "Design and Construction Considerations for Shoring Systems" in September; "Design Considerations for Steel Plate Shear Walls (SPSW) in October; "New Process for Commercial Project Plan Submittal for the City of Spokane" in November; "Load-bearing Steel Stud Walls with Hollow-core Plank" in January; "Steel Joists and the IBC" in February; "Post-tension Concrete Systems" in March and "Masonry Design Update" in April. Our March meeting included an update on SEAW

from Ade Bright, SEAW State President.

Membership

Our current membership consists of 4 Retired Members, 10 Life Members, 27 Members, 42 Professional Associates, 19 Associates and 2 Affiliates. Our total membership is at 104, down 2 from last year. We have excellent member attendance as over 60% of our members regularly attend the lunch meetings.

Board of Directors

We would like to welcome our incoming board members and thank the outgoing members that have generously contributed their time. Our outgoing and incoming board members are as follows:

Outgoing for 2007-08:

President: DeAnn Arnholtz
Vice President: Robert Graper
Secretary/Treasurer: Dave Giordano

Past President: Craig Crowley
Director: Joe Scholze
Director: Jeff Van Leuven

Incoming for 2008-09:

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

Robert Green will continue as our seminar chair. We had several successful seminars in Spokane this year. Thanks to the SEAW Earthquake Engineering Committee for presenting the "Seismic Design using the 2006 IBC an ASCE 7-05" seminar in Spokane. AISC sponsored the "AISC Seismic Provisions" and ASCE presented "Introduction to Deep Foundations". The Eastern Washington Masonry Producers Association and the Masonry Institute Promotion Group provided the "Structural Masonry Design" seminar.

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Annual Chapter Reports, cont'd

We are now enjoying the summer and will resume our meetings in the fall.

Respectfully submitted,

-DeAnn Arnholtz,
Outgoing President

South Central Chapter

This has been a good year for the South Central Chapter of the Structural Engineers Association of Washington. Though the Chapter membership numbers have remained somewhat stagnant, the meeting membership has probably increased. Considering the demands on time that I have been experiencing and that I have heard of from the membership, this is admirable.

Our dinner meetings are still being held in Sunnyside (the center of gravity of the Chapter) for the months of September through May. Some of the events for the past year that our Chapter has hosted or otherwise been involved with were:

- An Earthquake Hazards Workshop held in Yakima (bottom line – ASCE 7-05 found to be just fine)
- Ed Huston spoke on Structural Integrity with the IBC
- The SEAW Seismic Seminar was held in the Tri-Cities
- Simpson and Trus-Joist presented their latest
- APA showed us some shear wall items
- Central Pre-Cast of Spokane presented on pre-cast concrete design and detailing
- Mutual Materials on structural and face brick

The chapter remains a good source of information in our area for engineers doing structural. Building Officials from several of the local jurisdictions have attended our meetings with positive feedback and are always welcome. Jill Shuttleworth and I have spent a ton of time making sure that this Chapter continues to meet the need of our membership and functions. Sometimes

it can get to be something of a grind but our membership is grateful and that makes it worth it. Jill's efforts are truly appreciated.

Our chapter has a couple persons that will be testing for the Struct III exam. We have high hopes for them. (Oh please, Oh please!)

-John Tate,
Outgoing President

Southwest Chapter

Overall, the Southwest Washington Chapter of SEAW met our goal of increased participation in our monthly meetings. In an attempt to offer a little flexibility for members, we introduced a few lunch meetings into our schedule, which were well received. The attendance at our monthly meetings averaged 25-30 people, with joint meetings attracting 40-60 attendees. Our meeting topics included:

- Completion of the Tacoma Narrows Bridge
- A tour of the Nucor rebar plant in West Seattle (joint with the Seattle Chapter)
- Ed Huston's talk on potential Progressive Collapse Provisions in the IBC
- Recent changes in masonry design with Tom Young of NWCMA
- A discussion on the SE Practice Act
- A tour of the Tacoma plant of the American Plywood Association
- A discussion on local economic trends with Doug Pederson of the Puget Sound Economic Forecaster (along with a local developer and mortgage broker)

The masonry design seminar was really well received due to the fact that Tom Young brought a local masonry contractor along with him to the meeting. The type of insight provided by the contractor is

a real benefit to engineers as they try to anticipate constructability issues. Much of the discussion centered on lap lengths, congestion, the availability of open ended blocks (and their durability in the field) and similar issues. Based on feedback we received from attendees, we have already scheduled a tour of a local masonry block plant for next year (hopefully along with some hands-on block laying).

A large focus for the upcoming year will be planning and preparation for the 2009 Northwest Conference. Currently, dates for the conference are being finalized, and additional volunteers are being assembled. The Southwest Chapter hosted our 12th annual tradeshow, which is funded entirely by the generosity of the tradeshow vendors. The success of the tradeshow allowed us to offer a

scholarship to a local engineering student at Saint Martin's College near Olympia. However, due to the level of effort required to put on the tradeshow (along with the upcoming 2009 Northwest Conference), we have opted to move the tradeshow interval to every 18 to 24 months. Our next tradeshow will be moved to align with the Northwest Conference.

Holding a handful of lunch meetings during the course of the year has allowed us to attract new members to our monthly meetings, and mix up the locations of our meetings. We have tried out a couple of new venues for our lunch meetings with positive results. We hope to build on the successful increase in meeting attendance over the course of the next year.

-Drew McEachern,
Outgoing President

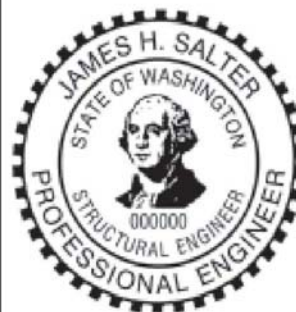
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Annual Committee Reports

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 (new)	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
- The CAC will act as SEAW's correlating committee to resolve conflicting positions between SEAW's statewide committees.

The CAC adopts the following approach for developing 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 four 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 2007-2008

The CAC, along with SEAW Members Ted Smith, Ed Huston, and John Loscheider, met in January to review the travel budgets for the committee and to review the code change proposals for the February ICC Code Development Hearings held in Palm Springs. The CAC established positions and authorized the involvement of SEAW representatives at the Hearings.

The CAC will reconvene after the publication of the Public Comments (due out in early July) to determine whether SEAW representation at the Final Action Hearings scheduled for September in Minneapolis is required.

John Hooper, Chair: jhooper@mka.com

SEAW Earthquake Engineering Committee

The SEAW State Board of Trustees would like to thank Mike Valley for his many years of leadership of the Earthquake Engineer-

ing Committee, for continuing to serve past his resignation from the chair position during the search for his successor, and for providing this year-end recap of the committee's activities. The board welcomes Tom Xia of DCI Engineers as the newly appointed chair.

There are 81 participants in the EEC – 18 voting members and 63 corresponding members. At the time of this writing, the new chair had yet to be named, so meetings were being held irregularly, on an as-needed basis. Over the past year the committee completed three major tasks as described below.

- EEC members developed and presented a full-day seminar program on *Seismic Design Using the 2006 IBC and ASCE 7-05*. The seminars, offered in Seattle, Portland, Spokane, and Pasco, were well attended and very well received.

- EEC members led an ad hoc group in a complete re-write of Chapter 18 of the *International Building Code*. The ad hoc group included members of other SEAs,

(Continued on page 7)

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

SEAW STANDING COMMITTEES

Committee	Chair	Phone	E-mail
Code Advisory	John Hooper	206/292-1200	jhooper@mka.com
Earthquake Eng.	Tom Xia	425/827-2238	txia@dc-engineers.com
Wind Engineering	Don Scott	253/383-2797	dscott@pcs-structural.com
Building Engineering	Phil Brazil	425/741-3800	pbrazil@reidmidd.com
Existing Buildings	Peter Somers	206/292-1200	psomers@mka.com
Education	Cary Kopczynski	425/455-2144	caryk@ckcps.com
Legislative	Robert Bourdages	425/827-5995	rbourdages@pdg-wa.com
Scholarship	Bill Mooseker	206/776-0646	cascadebill@comcast.net
Disaster Prep.	Paul Brallier	425/456-8500	paul.brallier@1405.wsdot.wa.gov
Exam	Ed Huston	206/448-8448	huston@smithhustoninc.com
Prof. Practices	John Tawresey	206/622-5822	johnhaw@aol.com
Public Information	Peter Opsahl	206/322-4518	peter@paostructural.com
Western Council	Ed Huston	206/448-8448	huston@smithhustoninc.com
NCSEA Rep	John Riley	206/957-3906	jriley@quantumce.com
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

(Continued from page 6)

geotechnical engineers, representatives of major materials industry groups, and representatives of deep foundations industry groups. The ad hoc group prepared 23 change proposals affecting Chapter 18 and other related sections of the IBC for consideration by the ICC Structural Committee. All 23 proposals were accepted exactly as proposed by the ad hoc group. The ad hoc group also worked with proponents of other proposed changes to Chapter 18 to coordinate the text by means of floor modifications. The ICC Structural Committee upheld the SEAW positions on all Chapter 18 content. A color composite for Chapter 18 (and related content) of the 2009 IBC is available on the SEAW website.

- EEC members developed dozens of change proposals for ASCE 7-10. The SEAW proposals generally were accepted by the Seismic Task Committee with only a few minor revisions. The ASCE 7 standards process is not yet complete, but SEAW has developed a reputation for bringing forward carefully considered and well executed change proposals.

All SEAW members are invited to help shape future Earthquake Engineering Committee activities as the group continues under the leadership of new chair Tom Xia.

Michael Valley, past-Chair
mvalley@mka.com

Building Engineering

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 included a summary of our activities during the 2006/2007 ICC code development cycle. At the time, public comments had been submitted requesting the ICC membership to reconsider two proposals at the ICC Final Action Hearings in May, 2007, which had been disapproved at the ICC Code Development Hearings in September, 2007. Both were approved.

The 2007 report also contained a summary of our efforts to develop proposals for the 2007/2008 ICC code development cycle to revise the 2009 IBC and for ASCE to revise the 2010 edition of ASCE 7. Emphasis would be placed on correlating provisions between the documents. The report had listed nine of the most prominent issues. Since then, proposals have been developed,

reviewed by the BEC, and submitted to the ICC and ASCE for consideration. The deadline for submittal to the ICC (August, 2007) was too tight to enable prior review by the BEC, but there was extensive committee review of the ASCE 7 proposals including two ballots.

The IBC proposals were heard by the Structural Code Committee at the ICC Code Development Hearings in February. Of the 21 proposals that were submitted, 17 were approved. Public comments could be prepared before the June 9 submittal deadline to request reconsideration of the four proposals that were disapproved, but that is unlikely at this time.

Development of the ASCE 7 proposals followed submittal of the IBC proposals. Many of them were done in conjunction with the IBC proposals and the effort led to several floor modifications for consideration by the Structural Code Committee at the ICC hearings. Twenty proposals have been submitted to ASCE, of which 15 were reviewed and balloted by the BEC over the winter and five are pending BEC review. The proposals are currently on the agendas of several ASCE 7 subcommittees, notably General and Live Loads. We will update the membership on their progress in future committee reports.

Of the 20 proposals, three were developed in conjunction with the efforts of the Chapter 18

Ad Hoc Committee to update the provisions of the IBC pertaining to foundations. A report was published in the April, 2008 edition of the SEAW Seattle Chapter newsletter.

Representing SEAW at the ICC hearings this time was especially challenging. There were over 240 proposals on the agenda of the Structural Code Committee. Before traveling to the hearings, they review the proposals in detail and attend meetings where the proposals are discussed with other committee members and SEAW positions are determined. The Earthquake, General, and Wind Engineering Committees each met at least twice. The BEC reviewed and took positions on over 130 of the proposals. They also attend more meetings and engage in extensive correspondence with colleagues around the country. These individuals volunteer a considerable amount of their personal time in this effort and they deserve our thanks. SEAW members who attended the ICC hearings and spoke for SEAW or other organizations (e.g., NCSEA and CRSC) are Ed Huston, John Hooper, John Loscheider, Peter Somers, Mike Valley and me.

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

Existing Buildings Committee

During the 2007-2008 year, the Existing Building Committee (EBC) has worked in four areas as outlined below.

Administrative

The committee was recently upgraded from a task group within the Earthquake Engineering Committee to an independent statewide committee. This structure is more consistent with the broad range of existing building topics, including seismic and non-seismic issues, covered by the committee.

The goals of this new committee are as follows:

- 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 in support of 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

There are currently 29 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 proposals, reviewed proposals, took positions on key items, and presented those positions at the code hearings in February. Follow-up activities for this code cycle will include submitting and reviewing public comments and attending the Final Action Hearings in September.

(Continued on page 8)

Annual Committee Reports

(Continued from page 7)

The committee has continued to support the Seattle Department of Planning and Development as it endeavors to interpret codes and update policies for existing buildings. The most significant of these is a recently publicized effort by the City of Seattle to consider policy changes related to unreinforced masonry buildings.

Technical

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

Members are continuing to develop 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 rehabili-

tations using the latest suite of codes and standards. These examples had been on hold pending the publication of ASCE 41 and Supplement No. 1 (covering revisions to the concrete provisions of the standard). Now that both have been published, work continues with the goal that the completed examples will be a key component of the fall seminar (see below).

Work on a FEMA 356/ASCE 41 user guide or FAQ document has been on hold since many of the original FEMA 356 items identified by the committee members have been addressed in the recent publication of ASCE 41. This topic will be revisited in the coming year.

Educational

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

A session at the 2007 NW Conference in Seattle covering the International Existing Building Code was presented by the EBC Chair.

The committee is currently planning and developing an existing building seminar to be presented in Seattle in October 2008. Other offerings may be available in Washington and elsewhere if requested.

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 new committee—existing building interest is required; existing building knowledge and experience are optional.

- Peter Somers, Chair: psomers@mka.com

Legislative Committee

The Practice Act will take effect July 1, 2008. There has been a fair amount of dialogue with engineers trying to interpret the new law.

Some uncommon questions include:

- What about gravity earth dams taller than 100 feet?
- What about power plants taller than 100 feet?
- What if I work on a very small part of a significant structure?

The Board of Registration will be adopting WAC (Washington Administration Code) rules to help with the transition period (18 months).

The NCSEA licensing committee is assisting other states to acquire practice acts. Legislative chair Robert Bourdages will be attending the NCSEA licensing summit on July 18 in Virginia as a member of the committee.

Robert will also be working with ACEC this fall and will likely no longer be able to chair the Legislative committee. It is important to have other SEAW members work with AELC.

Please see the AELC Legislative wrap-up for a complete recap of this year's legislative issues

Robert Bourdages, Chair
SEAW Legislative Committee:
rbourdages@pdg-wa.com

AELC Legislative Wrap-up 2008

During the 60-day legislative session, 1,745 bills were newly introduced, in addition to the 2,598 bills introduced last year that had not passed and were still eligible for consideration. Nearly 350 of these measures made it to the governor's desk. Below is a summary of the issues of most importance to AELC.

GOVERNMENT CONTRACTING / A&E SELECTION

Public Contracting by Port Districts (2SHB 3274 – PASSED). Following the state auditor's performance audit of the Port of Seattle, several bills were introduced to address public contracting procedures. In addition to adding new requirements for contracting for personal services by port districts, HB 3274 for the first time provides an enforcement mechanism against public agen-

cies that fail to comply with qualifications-based selection procedures for A&E services. Agency personnel will be subject to civil penalties for a willful and intentional violation of the statutory requirements for the competitive selection of professional design services.

Addressing Public Works Procurement (ESSB 6235 – DIED). ESSB 6235 was another attempt to address concerns raised by the Port of Seattle performance audit. It proposed to change how construction-related services and professional consulting services are defined for purposes of public works contracting. The bill would have added project management, construction supervision and construction management to the professional services required to be procured using the qualifications-based selection methods set out in Chapter 39.80 RCW (A&E selection). The bill passed the Senate, but died in the House.

LIABILITY

Residential Construction Liability (SSB 6385 – DIED). SSB 6385 would create a new cause of action for "negligent" construction on single family residences based on a "reasonable care" standard. The bill was amended in the House of Representatives to create a statutory implied warranty (similar to the statute on condominium construction), but concerns about its effect on insurance and litigation costs kept it from coming up for a vote in the House.

Certificate of Merit for Design Professionals (SB 5833 – DIED). AELC advocated for this measure to protect design professionals from unwarranted lawsuits. Similar to a provision found in the medical malpractice reforms enacted in 2006, SB 5833 would require claimants to have a certificate of merit at the time of filing a negligence claim against a design professional. The bill remained in the Rules Committee due to the constraints of a short session.

Wrongful Death (E3SHB 1873 – DIED). The Washington State Trial Lawyers Association pushed this bill to expand the types of damages available and the number of beneficiaries able to claim damages in wrongful death, survival and child death claims. The Liability Reform Coalition (LRC), Washington Construction Industry Council, and state and local governments joined in opposing the bill. A report by the actuarial firm Milliman, Inc., commissioned by the LRC, determined the increase in frequency of wrongful death cases against the state would be 80 percent—at an additional cost to the state of \$9.3 million annually. The bill died in a dispute between the Senate and House over Senate amendments successfully added to the bill by the LRC and its allies.

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Annual Committee Reports

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REGULATORY ISSUES

Anti-Vesting (SHB 3202/SSB 6784 – DIED). This bill would have significantly altered Washington's vesting laws, affecting when development rights could be vested and leaving design professionals and building officials without clear and predictable guidelines for construction and development. Considerable expense and time delays would result from requiring project applicants to revise or update plans based on regulations that are passed or altered after filing of the application. The construction industry, business community, and county officials were united in opposing the bill.

GMA Climate Change (ESSB 6580 – PASSED). Adding climate change as one of the elements of the Growth Management Act will be studied through pilot projects. The Department of Community, Trade, and Economic Development will work with six cities to address global warming mitigation, adaptation, and reduction of vehicle miles traveled. Reports will be made back to the legislature before the 2009 session.

LICENSING

Several licensing bills affecting the design professions were introduced this session, including: the American Institute of Architects/WA Council sought to update the architectural licensing statutes (SSB 6757); the American Society of Landscape Architects sought an upgrade from title act to practice act that was met with opposition from landscape designers (ESSB 5746); soil and wetland scientists pushed for a combined statewide licensing program (HB 3316); and interior designers advocated for the regulation of their profession through a title act (HB 2895/SB 6707).

TRANSPORTATION

520 Bridge/Tolling (ESHB 3096 – PASSED). The SR 520 tolling implementation committee is formed to make recommendations on financing and traffic-related issues by January 2009. Once the committee has submitted its report, tolling may be used on the existing 520 bridge, with legislative approval. The bill also defers payment of state and local sales tax for the bridge replacement until five years after completion.

Disaster Preparedness and Response Committee

The committee recently conducted three ATC-20 presentations:

- May 2nd to the National Guard 141st and 194th units. Thanks to Ian Frank, organizer and presenter, and Mark Leingang for arranging the training.
- May 30 and June 6 to King County, City of Bellevue, City of Seattle, and SEAW - Thanks to Jon Siu presenter, Jim DeSalvo, Scott Douglas, Paul Grant, Jim Walton, Greg Schrader, and Chris Ricketts

Volunteer Emergency worker registrations have been started with King County DDES. Thanks to Chris Ricketts and Bernard Moore of King County.

A China earthquake reconnaissance trip is being organized by Dave Swanson.

A White Paper on post earthquake posting procedures is being prepared by Paul Brallier, Jon Siu and others.

Paul A. Brallier, chair:
paul.brallier@i405.wsdot.wa.gov

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.

Last October the Washington State Board of Registration offered its sixth 8-hour Washington State Structural III exam. Since 2002 examinees have taken this in-state written exam along with the National Council for the Examination of Engineering and Land Surveying (NCEES) 8-hour Structural II exam, for a total of 16 hours of examination. The Washington State Board of Registration reported that twenty-seven of one hundred nineteen candidates in Washington, Oregon, and British Columbia passed the October 2007 exam, a passing rate of 23%. This is about the same passing rate that has been reported for the other five exams. Candidates still struggle with the code requirements for design in areas of high seismicity.

The structural engineers working on the exam would be pleased to see these passing percentages be considerably higher. Candidates often fail to demonstrate knowledge of the items in the test matrix, including basic seismic issues, i.e. use of the special seismic load combinations and requirements for design in

Seismic Design Categories D and higher. Many candidates cannot use statics to resolve the forces on a member or produce sketches of details that transmit their knowledge. The structural engineers working on the exam believe that one main reason for the poor performance is an over reliance on computers. Computers are a valuable tool in our profession. However, to become licensed, engineers have to be able to demonstrate knowledge and show that they can produce safe structures without the use of ETABS or SAP, to name just two programs. (We are, after all, licensing structural engineers, not computer technicians. Engineers have to show that they know when the computer results are not rational.) Furthermore, heavy reliance on computers means that candidates end up searching through the codes for particular provisions to solve a problem, and end up running out of time. The problems are time tested to ensure that the test isn't overly long; however, there isn't any time to research code provisions during the exam.

The 8-hour Structural III exam format has four 2-hour sections: an analysis and general code knowledge section, a concrete design section, a steel design section, and a wood and masonry design section. Each of the four sections has an equal point value. On the October 2007 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 12-hours of bridge problems to attempt (eight hours of bridge problems on the NCEES Structural II exam and 4 hours of bridge problems on the Structural III exam). The Washington State Board of Registration has mandated that at least 4 of the 16-hours of examination must still test building structural knowledge.

The state's 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. This format should be familiar to structural engineers who took their examinations between 1987 and 1997, as it is similar to the Western States Examinations given in those years. 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 8-hour Structural III exam. It is available from the Board of Registration.

The Structural III exam goes beyond the Structural II by delving into more of the details of seismic design. This higher level is

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Annual Committee Reports

NCSEA

The National Council of Structural Engineers Associations (NCSEA) is now in its 16th 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 represented in NCSEA by first helping to set up a local SEA in that state. Each Member Organization has a Delegate and Alternate Delegate representing that organization's interests with a single vote, regardless of the MO size.

The 15th Annual NCSEA Conference was held last October in Philadelphia, PA. SEAW was well represented with six members attending the conference. They were John Riley (Delegate), Greg Schindler (Past President), Ed Huston (Current NCSEA President), Robert Bourdages (Alternate Delegate), Jill Shuttleworth (Small SEAW Chapter Representative), and Andrew McGlenn (YMF Representative). It is great to see a dramatic increase in SEAW participation at this last annual conference.

The 16th Annual NCSEA Conference will be held on October 23-25, 2008, in Cleveland, OH. I hope to see strong representation again from SEAW at this year's annual conference.

Exam Committee

(Continued from page 9)

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. In the Structural III exam, Washington State 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 Washington State such as high snow loads. The Board of Registration's 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 SE II in April and the SE III in October, by doing so, they were able to decrease the in-

In 2009, the annual conference will be held in the western region on October 15-17 in Scottsdale, AZ.

NCSEA has been sponsoring Webinars for Continuing Education over the past year. 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 (Typically starting at 10:00 AM Pacific Time) in their own offices or homes via a simple internet computer and telephone hook-up, and get continuing engineering credit for doing so. Upcoming NCSEA-sponsored Webinars can be viewed on NCSEA's website: www.ncsea.com.

STRUCTURE Magazine has become the premier national periodical for our profession. 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. SEAW members have much to offer and will hopefully continue to write numerous articles for the magazine.

NCSEA has recently drafted a Code of Ethics

tense 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.

The April and October 2008 NCEES Structural II exams and the October 2008 Washington State 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.

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.

SEAW owes a debt of gratitude to the 27 structural engineers who work on the 4 exam committees. SEAW would also like to thank the structural engineers from Oregon and British Columbia who helped grade the 2007 exams.

Ed Huston, Chair
huston@smithhustoninc.com

for Structural Engineers. The current draft version is available for review and comment on the website's home page, and I encourage all SEAW members to review the draft Code of Ethics that will be voted upon by the NCSEA Board of Directors at their upcoming meeting on August 7th.

There are many NCSEA Committees that perform much of the work behind the scenes that greatly benefits our profession. SEAW members should consider volunteering for one of these causes and get involved in a meaningful way with the national organization. Some of the current committees include the following:

- **Advocacy Committee** - Operates as four sub-committees to establish NCSEA as the source for the consensus position on important issues, as well as to externally promote NCSEA as the national organization representing structural engineers with a unified voice. The sub-committees consist of Clients & Prospects, General Public & Media, Regulators, and Students & Educators.
- **Basic Education Committee** - Works to establish basic education criteria in colleges for structural engineers and takes surveys of higher education facilities to report the courses that are offered.
- **Continuing Education Committee** - Helps develop and present continuing education programs for structural engineers, including the Winter Institute, and administrates the Diamond Review Program.
- **Code Advisory Committee** - Operates as four separate sub-committees, structured to work with Model Code and Standards issues and activities, such as generating and responding to code changes, preparation and codification of resource documents, trial design studies, and practical application guidelines. The sub-committees consist of General Engineering (Chaired by Ed Huston), Seismic Provisions, Special Inspection/QA, and Existing Buildings.
- **Licensing Committee** - Works to influence states, in the interest of public safety, to adopt consistent licensing laws, especially concerning separate licensing of structural engineers via either Title or Practice Acts.
- **Membership Committee** - Strives to attract Associate, Affiliate, and Sustaining Members of NCSEA. This committee also works with existing Member Organizations on such issues as information exchange and communication, membership attraction and retention, newsletters, and seminars.
- **Publications/Magazine Committee** - Coordinates and manages publications that are produced by NCSEA, such as the pending

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Ade Bright Named 2008 Seattle Chapter Engineer of the Year

The Seattle Chapter presented its Engineer of the Year Award to Ade Bright at its May 27th Spring Social and Wine Tasting. 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

While Ade fills the bill in each of the SEAW nomination considerations, he was chosen predominantly for his visibility. With over 30 years of experience, Ade has been a very active member of the engineering community, serving

on committees and boards, and has worked on many major projects, such as Qwest Stadium and the Sound Transit Light Rail projects. He has served on the Federal Way Parks and Recreation Commission for several years. Ade is the founder and President of Bright Engineering, Inc., a structural engineering consulting service established in 1997.

Service to SEAW and the Profession

Ade just completed his term as State President and Seattle Chapter Past President. He chaired the successful 2007 NW Conference of Structural Engineers, held here in Seattle, which broke all attendance records. Ade has also served

on the ACEC Board of Directors.

Technical Expertise

Through Ade's project experience and technical work, he has developed a high level of expertise in transit structures, seismic design, as well as foundation analysis and design.

Ability to Nurture

Ade spends time with the engineers that work for him, helping them to develop their professional skills and to appreciate the complexities of engineering design and code compliance. He has always made an effort to encourage or create programs that support the participation of younger engineers in the activities of SEAW. In addition to this nurturing in his profession, Ade has also been an active soccer coach in his community, leading his team to



Ade Bright, 2008 Engineer of the Year

a Girls U18 National Championship in 1997.

The SEAW Seattle Chapter is pleased to recognize Ade for all of the efforts he has expended in the community, the profession, and in our organization.

NCSEA

(Continued from page 10)

Diaphragms Design Manual and STRUCTURE Magazine.

- **Structural Engineer Emergency Response (SEER) Committee** - Works to investigate opportunities and establish a framework for structural engineers to become more widely trained and nationally organized to assist local jurisdictions with post-disaster assessment and recovery efforts. David Swanson is a co-chair on this committee.

Improved **communications** is one of the big issues that NCSEA is actively working on this year, related to getting the MOs to better share information with each other and strengthen their own local organizations. Some ideas that came out of last year's annual conference break-out sessions include promoting young member forums, changing meeting times and venues to attract more members, looking to focus on aspects of the profession other than purely technical topics, and holding joint meetings with other organizations.

As SEAW's delegate to NCSEA, I am looking forward to another exciting year of growth, maturity, and development for the national organization as we continue to face the increasing challenges and complexities related to the field of Structural Engineering.

John H. Riley, jriley@quantumce.com
SEAW Delegate to NCSEA

SEATTLE CHAPTER YMF ANNOUNCES NEW LEADERSHIP

The Seattle Chapter Younger Member Forum has announced the results of the recent elections for its 2008-2009 leadership. Incoming Chair is Melissa White of Swenson Say Faget; Vice Chair will be Jessica Jenness of DCI Engineers. Shawn Roberge of Coffman Engineers will serve as Outreach Representative; and Robyn Lee of DCI Engineers is the new Social Representative.

Outgoing leaders are Cale Ash, Chair; Ben Piermattei, Outreach Rep; and Chad Taylor, Social Rep.

The YMF is open to engineers under 35 years of age. The group holds regular after-work social hours, university student outreach lunches, site tours, and participates in a summer softball tournament. The YMF has also hosted the Seattle Chapter November meeting for the past three years.

Leadership positions are determined by election within the YMF, and the current Chair holds a non-voting position on the Seattle Chapter Board of Directors.

SEAW 2008 Membership Statistics

	Seattle	Southwest	Spokane	S. Central	Total State
MEMBERS	297	57	31	5	390
Life Members	36	10	10	0	56
Prof Associates	143	26	39	25	233
Associates	102	27	17	2	148
Affiliates	34	8	4	5	51
Honorary	11	0	0	0	11
Students	8	0	5	1	14
Complimentary	5	0	0	0	5
TOTALS	636	128	106	38	908

Financial Report 2008

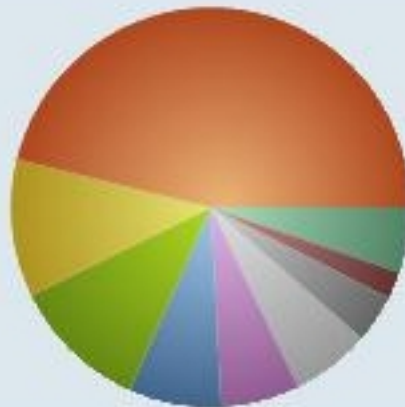
I'm sure you all were waiting for this year's treasurer's report and expecting it to be the same old stuff with a couple appropriately modified comments to reflect the current year's situation. Surprise! I came upon a couple graphs in Quicken that show most of the information in a visual format that 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. As usual, 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. I'll dispense with repeating the usual discussion of the incredible work that SEAW does locally and nationally in the interest of both the public and the structural engineering community.

The Scholarship Fund has been remaining fairly constant. In 2008 we awarded one \$3000 scholarship and two \$1500 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 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

Top yearly budget items:

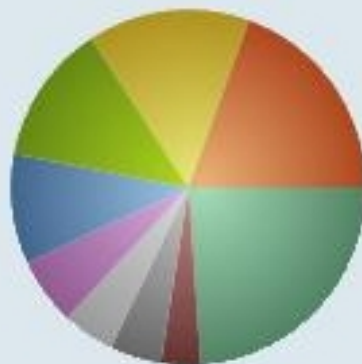
Sources of income



Dues Income:SE	46.15%
Seminar Income:SE	11.28%
Dues Income:SW	10.97%
Dues Income:SP	7.46%
Continu Ed Inc	6.44%
Continu Ed Inc:ATC-20	6.44%
Interest Earned	3.87%
Dues Income:SC	2.26%
Other items	5.14%
Total	\$62,078.00

Top yearly budget items:

All expenses



NCSEA	19.62%
Secretarial	14.72%
AELC	12.85%
CodeAdvisory	9.81%
Assoc. Mgmt Online:Website Dev	6.13%
Newsletter	4.91%
Scholarship exp:fund	4.60%
Assoc. Mgmt Online:Website Maintenananc	3.68%
Other items	23.69%
Total	\$81,539.96

Graphs are best viewed in full color in the online version. Go to www.seaw.org to view.

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

State Account Balance	
January 1, 2008	\$30,434
Budgeted Difference	
(Income-Expense)	-\$19,462
Min. Projected Balance	
December 31, 2008	\$10,972

Have You Paid Your 2008 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 if you have any outstanding dues invoices.

Meetings, Seminars, Announcements

SEAW Refresher Course 2008 Begins August 7

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 7 through September 16th, 2008. 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

New CUREE Publication Available

CUREE (Consortium of Universities for Research in Earthquake Engineering) is pleased to announce publication of *General Guidelines for the Assessment and Repair of Earthquake Damage to Residential Woodframe Buildings*, a comprehensive reference developed to bring sound science and engineering to the important but infrequent undertaking of earthquake damage assessment and repair of typical single- and multi-family woodframe residential buildings. The target audience of the *General Guidelines* is homeowners, contractors, insurance claims representatives, and other non-engineers involved in post-earthquake damage assessment of woodframe construction. A more detailed version intended for technical consultants engaged in post-earthquake damage assessment - *Engineering Guidelines for the Assessment and Repair of Earthquake Damage in Residential Woodframe Buildings*, CUREE Publication No. EDA-06 is in progress.

The extensively illustrated 371 page publication provides an overview of earthquake effects on woodframe buildings and detailed descriptions of major building components and common patterns of earthquake damage. It also includes checklists to assist with a systematic damage survey and guidance for retaining and working with technical consultants.

The *General Guidelines* is based upon the most current engineering research and best practices related to assessment and repair of earthquake damage in woodframe construction. The publi-

cation is one result of a multi-year project involving academic institutions, commercial research laboratories, and practicing professionals under contract to CUREE that included physical testing to simulate earthquake damage and repair to residential construction, review of existing engineering knowledge and practice, and extensive peer review by independent expert members of the project's Advisory Group. Major funding for the project was provided by the California Earthquake Authority.

According to the project manager who led the team developing the *General Guidelines*, Dr. John Osteraas of Exponent, Inc. in Menlo Park, California, "The *General Guidelines* are the result of the efforts of many experienced earthquake professionals. It is our hope that the information provided in the *General Guidelines* will improve the consistency and quality of post-earthquake damage assessment and repair, thereby facilitating rapid recovery in those areas of the U.S. damaged in future earthquakes."

The Guidelines are available as a free downloadable PDF at <http://www.curee.org/projects/EDA/index.html>. Information regarding ordering of printed versions and/or a CD that contains additional project material is available through CUREE's publication website at <https://secure.curee.org/catalog/index.php>.

For further information, contact CUREE at curee@curee.org or EDA.Editor@Exponent.com.

Earthquake Spectra Special Issue

The Next Generation of Attenuation (NGA) Project Special Issue of *Earthquake Spectra*

This much-anticipated 341-page special issue of *Earthquake Spectra* (24:1, February 2008) presents the principal results of the Next Gen-

eration of Attenuation (NGA) Relations Project, an applied research program conducted over a five-year period to develop improved earthquake ground motion attenuation relations (ground motion prediction equations, or GMPEs) for shallow crustal earthquakes in the western United States and similar active tectonic regions. The price is \$30 each for EERI members; \$50 for nonmembers. To order online, visit http://www.eeri.org/cds_publications/catalog/. It is listed under "New Products."

Containing many color figures, the unique compilation of 13 articles covers the NGA project process, components, and products, including the NGA database, which can be used in many earthquake research and applications projects, and the five NGA GMPEs. The issue also features a comparison of the principal features and results of the GMPEs and describes the development of nonlinear site amplification factors, which helped guide the modeling of nonlinear soil amplification effects in GMPEs. Also described are a model that can be used to modify NGA GMPEs for near-source directivity effects, the development of a basin amplification model used in the formulation of basin depth effects, and the correlations across periods and orientations of ground motion predictions from the NGA GMPEs. Lastly, the issue presents an evaluation of differences between the maximum horizontal component of ground motions and the average horizontal component used in the GMPEs. Guest editors: Jonathan P. Stewart, Ralph J. Archuleta, and Maurice S. Power. The issue was underwritten by the Pacific Earthquake Engineering Research Center (PEER) with financial support provided by the California Department of Transportation. The issue's abstracts are accessible to non-members online at <http://bjps.aip.org/EarthquakeSpectra/EarthquakeSpectra/>. Click on the heading under "Browse" next to "February 2008."

Seattle Chapter Membership Postings

Applications

James E Grant
Student, Seattle University
Class: Student

Christopher P Caudill
Magnusson Klemencic Assoc
BSME, Eastern Michigan U
MSArch/Eng Penn State U
Class: Associate

Wesley Isbell
DCI Engineers
BSArch/Eng Aug 07
Class: Associate

Jo Yuan
DCI Engineers
BSE 12/07, Walla Walla U
Class: Associate

Jerry Lee
Magnusson Klemencic
BSCE 2006, UCLA
MSSE 2008, UC San Diego
Class: Associate

Dong Wang
DCI Engineers
MS 2003, Tianjin U, China
Ph.D. 2008 SUNY Buffalo
Class: Associate

Aaron Sterns
Wiss, Janney, Elstner Assoc
BSCE '03 U of Tex., Austin
MSCE 2006 UW
Class: Associate

Vu-Hoang Nguyen
ABKJ
CEE 2008, UW
Class: Associate

Accepted Applications

Micah J. Florea, Associate
Brett Mozden, Associate
Max E. Reiche, Affiliate
Ryan Tilley, Student

Announcements

ATC and FEMA Announce FEMA 461 Report

The Applied Technology Council (ATC) and the Federal Emergency Management Agency (FEMA) are pleased to announce the immediate availability of the FEMA 461 Report, *Interim Testing Protocols for Determining the Seismic Performance Characteristics of Structural and Nonstructural Components*. Prepared under the FEMA-funded ATC-58 Project, "Development of Next Generation Performance Based Seismic Design Guidelines for New and Existing Buildings," the interim recommended protocols were developed for testing of structural and nonstructural components and systems found in buildings to establish component/system seismic performance characteristics. The protocols were developed through a cooperative effort of FEMA, ATC and the three National Science Foundation (NSF)-funded Earthquake Engineering Research Centers (EERCs): the Mid-America Earthquake (MAE) Center at the University of Illinois, Urbana; the Multidisciplinary Center for Earthquake Engineering Research (MCEER) at the State University of New York at Buffalo; and the Pacific Earthquake Engineering Research (PEER) Center at the University of California, Berkeley. The work was done by both FEMA and NSF under the National Earthquake Hazards Reduction Program (NEHRP). More information on this program can be found at www.nehrp.gov or www.fema.gov.

Copies of the FEMA 461 Report can be obtained (1) free of charge from FEMA by calling 1-800-480-2520, (2) through the ATC Online Store at ATC's website: www.atccouncil.com, or (3) by downloading the document from the ATC website. For additional information, contact ATC at 201 Redwood Shores Parkway, Ste 240, Redwood City CA 94065, phone 650/593-2320; email atc@atccouncil.org.



Component Organizations

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



11th Annual Golf "Fun"draiser

To support the efforts of the Architects & Engineers Legislative Council

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 3, 2008
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

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

Please mail form and entry fee to AELC GOLF TOURNAMENT,
700 112th Ave. NE, #207, Bellevue, WA 98004
For information call (425) 453-6655

Deadline for Registration is September 25, 2008

SEAW Publications Order Form

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[]	Supplemental Design Examples for the Snow Load Analysis Only	\$10.00	
[]	SEAW/FEMA Analysis of Structural Failures due to Holiday Storms of '96-97	\$ 5.00	
[]	FEMA 352: Recommended Post-Earthquake Evaluation & Repair Criteria for Welded Steel Moment-Frame Buildings	\$ 5.00	
[]	2002 Seismic Evaluation & Rehabilitation Seminar notes on CD	\$30.00	
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Opportunities

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DCI Engineers is a leading-edge, team oriented structural and civil engineering firm with five offices along the West Coast. Being licensed in all 50 states, as well as Canada and Mexico, ensures you will be involved in exciting, high-profile and challenging projects.

DCI was recently honored with the Pinnacle Award by Structural Engineer Magazine for placing in both Best Firms to Work For and Hot Firms 2007.

If you are an engineer or CAD designer with a desire to advance your career, please visit our website www.dci-engineers.com for a list of open positions or send your resume to resumes@dci-engineers.com.

Engineers

Seattle Structural PS Inc is a downtown Seattle firm looking for engineering candidates at all experience levels. 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

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Seattle, WA 98101

206-343-3000 phone; 206-343-3013 fax; PPawlak@SeattleStructural.com

Junior and Staff Level Engineers

With a reputation for engineering excellence in structural design, INCA, a Tetra Tech company, is looking for talented structural engineers for its expanding structural groups. We currently have openings in our Bellevue and New Orleans offices for Structural Engineers at the junior (with a PE or EIT) and staff-level (with a MS in Structural Engineering) with 1-10 years experience in analysis and design of concrete and steel structures. Experience with bridge and

marine structures is desirable. You will work with one of the premier engineering firms and establish a strong career path, so join our innovative and exceptional team! INCA was founded in 1983 and is a medium-sized company that emphasizes innovation and design excellence. Structural projects have included bridges, retaining walls, transit centers, navigation locks, dams, fish bypass structures, and hydropower plants. Project locations have ranged from the local Puget Sound region to New Orleans, Mexico, Puerto Rico, the Panama Canal, and the Philippines.

Please send resume to hr@incainc.com or INCA Human Resources 400 - 112th Avenue NE, Suite 400, Bellevue, WA, 98004. Go to www.incainc.com for more information on this and other opportunities. EOE.

Senior Bridge Engineer

Established in 1983, INCA Engineers, a Tetra Tech company, is a mid-sized professional consulting firm that provides civil, structural, transportation, traffic, mechanical, and electrical engineering, survey-

ing, and mapping to public and private clients throughout the United States and abroad. Projects are varied and interesting; light rail over a floating bridge (first in the world) in Seattle; flood protection in New Orleans; and locks on the Mississippi River. Our people are professional, and the atmosphere is relaxed. INCA offers competitive salary and generous benefits, opportunities for long-term career growth, and diverse and interesting project work. We are looking for bright candidates to join our team!

This is a senior -level position in our Structural Department. Qualified candidates will have a minimum of seven years of experience in the analysis, design and detailing of bridges. Experience is required in producing post-tensioned concrete and reinforcing details for cast-in-place and precast concrete bridges, as well as details for steel bridges. Applicants must be proficient in Microsoft Office, SAP2000+, and GTSTRUDL. A Washington PE license is required, and an SE is desired. Ideal candidates would enjoy analyzing and

(Continued on page 17)



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Opportunities

(Continued from page 16)

designing bridge structures, as well as working closely with senior design engineers to develop contract documents. Candidates must be familiar with AASHTO design codes and specifications.

- 7 to 15 years of experience in the analysis and design of concrete and steel bridges and various types of retaining walls
- Design experience for various types of bridges, such as pre-stressed girder, box girder, floating, etc.
- Concept, preliminary, final design, and construction support experience
- Rail-Structure Interaction design experience preferred
- PE is required
- SE is desirable
- MS in Structural Engineering is preferred

Please send resume to hr@incainc.com or INCA Human Resources 400 - 112th Avenue NE, Suite 400, Bellevue, WA, 98004. Go to www.incainc.com for more information on this and other opportunities. EOE.

Structural Engineer

Anderson-Peyton Engineers (25+ year firm) is seeking junior and senior level Structural Engineers for our Federal Way office expansion. All levels of experience are being sought. Design team needs are post-tension concrete, timber, red iron steel, and cold-formed steel. Opportunities to work on a wide variety of project types using multiple construction materials. Enjoy rapid growth potential, progressive benefit package, informal office culture and flexible work schedules. Email resume to: dpeyton@anderson-peyton.com.

Structural Engineers

Armour Unsderfer Engineering is currently seeking both entry level and senior structural engineers. We are searching for high quality individuals who are dedicated and achievement oriented. AUE is a growing structural engineering consulting firm providing service to commercial architects, corporate clients, industrial/commercial contractors, public agencies and other

(Continued on page 18)



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Opportunities

(Continued from page 17)

private sector clients. We are Washington based with national clients, licensed and practicing in 39 states and 2 Canadian Provinces

Requirements:

- Bachelor of Science in Civil/Structural Engineering.
- The ability to perform structural calculations / detailing / construction support dealing with structures designed with wood, concrete, masonry and steel.
- The ability to write clearly and concisely.
- The ability to communicate with clients while applying a "Client First" dependable and friendly attitude
- Proficient with computer based programs, such as Excel spreadsheets, Risa, Adapt, etc
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MLA Engineering, pllc provides structural consulting and design services locally, regionally, and nationally. Our work includes structural design for new buildings and complexes as well as seismic evaluation, analysis and design for existing structures. We have an engineering position available that is suited for a candidate with 8+ years of design and project management experience.

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Bridge Engineer

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HDR is an employee-owned architectural, engineering, planning and consulting firm that excels at helping clients manage complex projects and make sound decisions. Approximately 6,000 professionals, including architects, engineers, consultants, scientists, planners and construction managers, in over 140 locations worldwide, pool their strengths to provide solutions beyond the scope of traditional A/E/C firms.

The primary responsibilities of the Bridge Engineer will be applying structural engineering and detailing techniques. The types of projects include bridges (steel girder, prestress concrete girder and slab, concrete and steel box girders, segmental and arch), retaining walls (soldier pile with or without tiebacks, soil nail, cast-in-place concrete, MSE, cylinder pile), and box culverts, along with interchange design for highway and railway projects. The Bridge Engineer will also perform seismic analysis of bridges and walls, write technical structural reports and layout plan sheets for CADD.

Daily activities include selecting standard bridge engineering/design procedures, developing structural details using specialized software such as Microstation, SAP 2000, LARSA, CONBOX, PGSuper, and performing structural load calculations as well as assisting with geometric layout and quantity development. Other activities include reviewing, assigning work and/or checking design calculations, estimates, and specifications by junior engineers and EITs.

Experience Required:

- * BSCE required, MSCE in Structural Engineering preferred.
- * EIT required. PE preferred.
- * 5+ years bridge/structural design

experience required.

- * Experience with WSDOT bridge design and detailing standards desired.

- * Experience using Microsoft Office Software and Microstation.

- * Experience using structural analysis programs and bridge design software.

- * Experience managing CADD and junior staff desired.

- * Excellent communication skills and ability to work within a team environment.

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Bridge Project Engineers

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Position requires:

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Structural Engineer

Arup, Seattle WA.

Arup is a leading international design firm with over 9,000 members worldwide in 86 offices. We are involved in the design of some of the most prestigious projects locally and worldwide. Our North America practice, established more than 20 years ago, now includes over 800 employees in 10 offices. We recruit only the best and brightest people and provide an opportunity for growth commensurate with your investment of skill, energy and desire to contribute and succeed.

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(Continued on page 20)

SEAW RESIDENTIAL REGISTRY

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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(Continued from page 18)
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We are seeking someone with superior design and analysis skills, to plan and design structural systems for buildings, including libraries, museums, high rises, universities and other commercial architecture; who are able to coordinate structural plans with other multi-disciplinary engineers, as well as calculate loads and perform structural analysis and design for steel, concrete, timber, and masonry building structures based on building codes and specifications; able to perform responsible professional

structural engineering design and review of drawings and specifications for compliance with building code requirements, city ordinances, and State and Federal statutes; as well as apply your knowledge of current seismic design and evaluation methodology.

- Bachelors/Masters Degree in Civil/Structural Engineering with a sound knowledge of structural engineering fundamentals
- 5 years design experience with buildings, including libraries, museums, high rises and other commercial architecture.
- Proficient using Robot, ETABS and/or SAP seismic analysis software.
- PE/SE license desired.

Apply care of Julie Jeffery, Sr Recruiter: julie.jeffery@arup.com

Director of Mixed-Use Construction

A Washington Construction Company is seeking an experienced, self-directed, team-oriented professional as the Director of Mixed-Use Construction. The Director will supervise all steps of negotiating and ultimately building mid-rise wood-frame multi-housing structures, primarily for the rental market. Duties include developing relationships and undertaking the initial negotiations with private and non-profit entities, conceptual estimation, pre-construction services, cost control, and project delivery. The Director will meet

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Qualifications:

- Desire for long-term growth position
- Experience in green construction and urban in-fill
- Lean process familiarity is a plus
- Strong negotiation skills
- Partnership building, collaboration skills, and mentoring others
- Independence and ability to make decisions consistent with company's policies
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Please send your resume for consideration to: resumes@galliardgroup.com. Please include "Director of Mixed-Use Construction" in subject line.

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Structural Engineers within KPFF's Special Projects Division enjoy the freedom of being the prime consultant on the majority of

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KPFF's Special Projects Division is a 40+ person group that provides project management, planning, civil & structural engineering, machinery design and construction management on a wide range of project types through all stages of development. Our project types include:

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- Marinas
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- Transportation Projects

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