Annual Seattle Chapter Spring Social and Awards Event

JOIN US FOR AN EVENING OF

Wine Tasting 102
TUESDAY, May 27, 2008 – 6:30 P.M.

The Shilshole Bay Beach Club
6413 SEAVIEW AVENUE NW IMMEDIATELY NORTH OF RAY’S BOATHOUSE

Open Wine Bar with Hors d’Oeuvres
6:30 PM TO 7:30 PM TASTE DIFFERENT WINES AND SOCIALIZE

Program: Wine Tasting 102
7:30 TO 8:00

Awards Program
8:00 PM to 8:30 PM WINE BAR WILL BE OPEN

Cost
SEAW MEMBERS & GUESTS - $40.00
NON-MEMBERS - $45.00
LIFE-MEMBERS – FREE

Reservations Required
REGISTER ON-LINE BY TUESDAY, MAY 20TH
WWW.SEAW.ORG OR SEAW@SEAW.ORG
OR PHONE 206-682-6026

This is NOT a Full Dinner Event

Last year SEAW Seattle Chapter’s Wine Tasting Social Event and Awards Program was so popular and enjoyable for all that we’ll keep the same format this year. Our annual awards affair will honor our Life Members, who are cordially invited to attend as our honored guests. Our membership is also encouraged to take advantage of this opportunity to attend with spouses or significant others and experience a delightful social evening. In addition to recognizing individual accomplishments of many of our members, the Seattle Chapter’s annual Structural Engineer of the Year award will be presented to Ade Bright in recognition of his many contributions to our organization. The program will end with the introduction and installation of Seattle Chapter’s newly elected officers.

Wine Tasting 102 will be an extension of last year’s popular Wine Tasting 101 program. We are pleased to again feature David LeClaire, one of the most popular and engaging Sommeliers in the Seattle area, to further enhance our understanding and appreciation of wine. David refers to his presentation style as “Info-tainment,” that is being part educator and part entertainer.

David is the founder of Wine Events & Promotions, which produces wine events in the Pacific Northwest as well as throughout the United States. His engagements throughout the year include charity fundraisers, corporate

(Continued on page 2)
FROM THE BOARD: Welcoming Change

I always enjoy the arrival of spring. Perhaps it’s the anticipation of change that I look forward to. Although this year, with snow in late April, it’s looking like we have to be a little more patient.

As I end my year as your Seattle Chapter president, I hope that I was able to bring a little bit of change to the organization. I’m a firm believer that status quo leads to stagnation. Change, though sometimes uncomfortable, is a good thing.

Some of the new ideas your SEAW board has come up with in the past year include the following:

- The introduction of lunch meetings. Our goal was to be more flexible in our meeting time so that those who can’t make the dinner meetings have another option. Look for these meetings to continue.
- A change in meeting venue. With the closing of the College Club, the board is looking for a new venue. We have been trying McCormicks on Lake Union – your feedback is appreciated.
- A continued goal of improved variety and quality of lunch and dinner speakers.

The board for the Younger Member Forum. This streamlines the communication between the younger members and the board.

- Change to the format of the NW Conference this year. In the past, the conference has been held in the summer at a resort venue. The conference committee decided to try something new, and it was held in September in downtown Seattle. The attendance was record-breaking.

- Reinvigoration of SEAW ties with ASCE and other organizations. Board member Peter Opsahl is also resurrecting the public information committee.

I look forward to seeing what this year’s board will come up with, as we welcome a new president and directors. I am sure this new leadership will produce even more changes for SEAW. Help me in welcome incoming president Scott Douglas, vice president Peter Opsahl, and our new directors Howard Burton, Mark Moorleghen and Dennis Pradere.

I’d also like to recognize the efforts of outgoing board members Peter Somers and Dan Lake. Both of these individuals did much to further the goals of SEAW, and I’ve enjoyed working with both of them.

And last, but not least, we are continuing our new tradition for the May meeting and hope to see many of you at our 2nd annual spring award social and wine tasting event on May 27th at the Shilshole Bay Beach Club.

Thank you for the honor of serving as your Seattle Chapter President for the past year. I look forward to working with the new board for one more year in the role of Past President.

One last thought: How about some change in your life, even if it’s attending your first lunch or dinner meeting or, even better, joining an SEAW committee!

-Shelley Clark
outgoing president

YMF Corner: YMF Nominations

Last month’s YMF Corner advertised the upcoming YMF leadership transition and election process. Since then we have begun the nomination phase of the elections and have received strong interest for each of the leadership positions. Nominations will be accepted until May 13th. If you are interested please e-mail Cale Ash at cash@degenkolb.com. Feel free to nominate your colleagues or co-workers as well.

Following is additional information on the election process along with some important dates:

Election Procedure
1. All leadership positions are filled by annual elections; terms run from May-May.
2. Positions will be advertised via e-mail 6 weeks prior to the May SEAW meeting.
3. Interested individuals must submit their nomination to current Chair by May 13th.
4. Candidates must be current SEAW members.
5. Voting will be conducted via email; all ballots will be due on May 26th.
6. Results will be announced at May 27th SEAW meeting.

Please contact any YMF Representative if you have questions.

YMF Representatives
Chair – Cale Ash
cash@degenkolb.com
Vice-Chair – Melissa White
mwhite@swensonsayfaget.com
Outreach Representative – Ben Piermattei
benjamin.piermattei@soundtransit.org
Social Representative –
Meeting Recap

SEAW Southwest and Seattle Chapter Meeting at the Nucor Steel Plant

The annual joint meeting of the SEAW Southwest and Seattle Chapters, held on April 22nd, featured a tour of the Nucor Steel Plant in West Seattle. The facility was established over 100 years ago, has gone through several ownership changes and is one of the few remaining mini-mills on the West Coast. The mill rolls #3 to #18 rebar, ½ inch to 3 inch diameter round bar, plate up to 1-1/2 x 6 inches, up to 4x4 angle shapes and 3 to 6 inch deep channel shapes. The meeting was organized by the Southwest Chapter, and the tour and lunch were sponsored by CRSI and Nucor. A CRSI video presentation on rebar placement and tolerances was shown during lunch. After lunch the first stop on the tour was the scrap yard. The mill utilizes only scrap, primarily from automobiles, machines and appliances. The scrap is loaded by magnetic overhead cranes into 120-ton buckets that go directly to the melt furnace. This high-efficiency melt furnace was installed in 1995, replacing the plant’s two existing furnaces. The furnace melts the steel to 3,000 degrees Fahrenheit, runs 24 hours a day and averages 27 heats per day and produces 785,000 tons per year. From the furnace the molten steel is transferred to a ladle and then to a distribution box called a tundish. From the tundish the molten steel is distributed in four separate streams into copper molds, where the steel is solidified, straightened and cut into approximately 6 inch x 6 inch x 28 foot long strands called billets.

The plant can roll 600,000 tons of finished product per year. The majority of the billets are sent to the reheat furnace, with the excess melt capacity of 185,000 tons being shipped to other locations, including mills in Taiwan and Malaysia. After being reheated to approximately 2,500 degrees Fahrenheit, the billets pass through a modern rolling mill installed in 1993 where they are formed into shapes. An automatic handling system takes the cut-to-length product on a conveyor system where it is bundled and loaded directly on trucks or warehoused. The time from scrap to finished product can take as little as 4 to 5 hours.

Nucor is Seattle City Light’s largest customer, with a two million dollar electric bill every month. The facility has 290 employees which results in the production of shapes at less than one man-hour per ton. Besides being the largest recycler of scrap in the state the plant is environmentally progressive, recycling furnace slag, utilizing rain-water runoff for cooling and operating two bag houses to minimize air pollution. The tour was an impressive example of advanced technology integrated with heavy industry resulting in a profitable facility.

- Scott Douglas

2nd Annual Seattle Area Structural & Civil Engineering Softball Tournament

July/August 2008

The SEAW Young Members Forum is helping to organize “free agent” teams for smaller companies and individuals.

Sign up available for full teams, partial teams and individuals.

Contact Andy (achronister@swensonsayfaget.com) for questions and registration.
Meet Your New Board Members

T

he results of the 2007 Seattle Chapter election are in, and our new board will be installed at the
May 27th Spring Social and Awards Event. The 2008-2009 officers are Scott Douglas, President;
and Peter Opsahl, Vice President. For the first time, a sitting director was elected to the Vice
Presidency, therefore three new directors were elected. Howard Burton and Mark Moorleghen will
serve as 2008-2010 directors and Dennis Pradere will fill the remaining year of Peter Opsahl’s term.
They will join continuing board members Philip Brazil, 2007-2009 director; Ted Smith, Treasurer; and
Shelley Clark, Past President.

Scott Douglas

Scott Douglas, President, is a Senior Project Manager with DCI Engineers in Bellevue. Scott grew
up in the Los Angeles area. He graduated from Cal Poly Pomona and Cal State LA. Scott moved to
his present Kirkland home in 1978. A member of SEAW for over 25 years, Scott is presently an
active participant in SEAW’s Engineering Committee’s, Wind Committee, Disaster Preparedness
Committee and the Earthquake Engineering’s Committee’s Wood Task Force. He has also served
the past three years on the Chapter’s Board of Directors. Scott recently represented the NCSEA on
the ANSI/TPI 1 Committee for the Metal Plate Connected Wood Truss Standard. Scott operated his
own structural consulting firm before joining DCI Engineers seven years ago.

Peter A. Opsahl

Peter A. Opsahl, Vice President, is president of Peter A. Opsahl Structural Engineering, Inc. After

graduating from Seattle University in 1983 he began working with Skilling Ward Magnuson Bark-
shire (currently Magnusson Klemencic Associates). He stayed with the firm for over 13 years. Prior
to opening his own practice, Peter worked for Swenson Say Faget for a little over 3 years. Peter
has designed a variety of projects, including various sizes of commercial buildings, medical and
educational facilities and residential; both multi-family and single-family all throughout the West
Coast and Southeast Asia. He also provides Project Management services to the Port of Seattle.
Some of the projects that Peter has been involved with include the Childhaven Headquarters, the
Nisqually Administration Building, Agnes Lofts, the Rainier Cold Storage Demolition at Terminal 25
and the Bypass Conveyors at the Terminal 86 Grain Elevators. Peter is a licensed Structural Engi-
neer in Washington, California, Oregon, Idaho and Colorado.

Howard Burton

Howard Burton, Director, is president and founder of Seattle Structural PS Inc., a structural and civil

firm. Howard received his BSCE from Rice University in 1987 and his MSCE from the University of
Washington in 1989. He is a registered engineer in Washington, Oregon and California. His in-
volve ment in SEAW, spanning over 20 years, includes receiving an SEAW scholarship in 1988, serv-
ing on the Lateral Forces Committee and Wind Subcommittee and the editing and publishing of
the first editions of SEAW’s Wind Commentary.

Mark Moorleghen

Mark Moorleghen, Director, is an Associate with D’Amato Conversano Inc. where he leads design
efforts on a variety of medical, office, mixed use, senior housing, water treatment, industrial and
retail development projects. He earned his BSCE in 1980 from Virginia Tech. He is a licensed Civil/
Structural Engineer in Washington State with 27 years of structural engineering experience. His
career has included design of industrial facilities for boiler & co-gen plants, pulp & paper, oil & gas,
wastewater treatment, semiconductor, naval and aerospace industries. Mark has been a corre-
sponding member of the Earthquake Engineering Committee. He presented at the SEAW 2006
Seismic Design Seminar and was a contributing author to EERI’s 2005 Scenario for a Magnitude
6.7 Earthquake on the Seattle Fault. He will teach the Steel session of the SEAW Refresher Course
this year.

Dennis Pradere

Dennis Pradere, Director, is a Senior Structural Engineer with MLA Engineering where he focuses
on new design and seismic rehabilitation of public, commercial and residential buildings. He has
worked with MLA for six years and prior to that he worked at DCI Engineers in Bellevue. Dennis
graduated from the University of Wyoming with a degree in Architectural Engineering (BSCE) in
1992. He began his career designing industrial structures for Roberts and Schaefer Company in
Salt Lake City, Utah. He spent the first half of his career designing steel and concrete structures for
chemical, mining and aerospace industries. He is a registered Structural and Civil Engineer in
Washington.
The SEAW Disaster Preparedness & Response Committee and King County are hosting 8-hour training sessions on Post-Earthquake Building Safety Evaluation Procedures (ATC-20). The ATC-20 training will help you develop the skills to properly assess earthquake damaged buildings for occupancy following a major earthquake. The last 2 hours of this course will include an orientation to King County Emergency Program, an overview of the RCW pertaining to volunteer emergency workers, and registration of volunteer emergency workers.

DATE: May 30, 2008 OR June 6, 2008
TIME: 8:00 a.m. to 5:00 p.m.
LOCATION: Bellevue City Hall - Council Chambers
450 110th Ave NE, Bellevue, WA
Parking is limited - please carpool!
COST: $35.00 (Includes seminar and ATC-20 Field Manual)
REGISTER ONLINE: www.seaw.org, e-mail seaw@seaw.org, or phone SEAW at 206-682-6026

ATC-20 is the most common methodology used to perform post-damage safety evaluations of buildings. In the aftermath of a major disaster, building safety assessment is one of the most distressing problems of unknown scope and severity that engineers, architects, building officials, and building owners have to face. In this session, structural engineers will teach you about the most current methods for performing post-earthquake safety evaluations of buildings. The training will cover:

- A detailed presentation of ATC-20 with examples of damaged buildings.
- How buildings structurally react to earthquake forces.
- The significance of the green, yellow, and red postings.
- When and how to post a building.
- How to triage evaluations and postings following an earthquake.

The instructors will lead the audience through evaluation exercises based on real-life examples of damaged buildings from recent earthquakes. ATC-20 training is critical for our country's disaster preparedness.

After the ATC-20 class attendees will be assisted in completing registration as Volunteer Emergency Workers with King County DDES. Please bring a copy of a valid driver’s license, a copy of proof of auto insurance, professional license number and license expiration date to complete the registration forms. A camera will be available to take photos for the Emergency Worker card.

INSTRUCTORS:
Jon Sin serves as the Principal Engineer/Building Official for the City of Seattle’s Department of Planning and Development, a position he has held for the last 8 of the 24 years he has been with the City. He also serves as the director of DPD’s emergency response program. Jon has been conducting ATC-20 training sessions since the early 1990’s for engineers, building officials, and City of Seattle employees. In 1994, Jon was sent by the City of Seattle to assist in the City of Los Angeles’ response to the Northridge Earthquake.

Paul Brallier, P.E., S.E. is an engineer with HNTB. He has over 20 years experience as a structural engineer in the design of buildings, bridges and other structures. Paul has been involved with the SEAW Disaster Preparedness and Response Committee since 1994 and is currently the Chairman of the committee.
SEAW Members Participate in Code Hearings

As usual, SEAW members have been quite active in the current ICC code development cycle, especially at the hearings held in Palm Springs in February. Representing various SEAW committees among other national organizations, SEAW members Phil Brazil, John Hooper, Ed Huston, Peter Somers and Mike Valley provided testimony at the February hearings, both in support of worthy proposals and opposition to unworthy proposals. Under the auspices of the recently formed SEAW Code Advisory Committee (CAC), SEAW members active in the code development process have worked toward speaking with one consistent voice and coordinating with the other SEAs on behalf of NCSEA and other code development organizations. The main goal of this process is to enable the structural engineering community to continue to play an important role in the code development process and ultimately to help engineers deliver better structures.

The following is a brief summary of some of the significant code development work in which SEAW members were involved during the code hearings. If the ICC committee action from February is supported at the ICC Final Action hearings in September, the approved proposals will become part of the 2009 IBC.

**General Structural:** The SEAW Building Engineering Committee (BEC) submitted and provided testimony for several code change proposals intended to improve the consistency of the IBC provisions and provide better correlation between the IBC, ASCE 7 and the various materials standards. These revisions will result in more clarity and better usability in the 2009 IBC.

**Progressive Collapse/Structural Integrity:** Concerning the ongoing topic of progressive collapse and structural integrity, SEAW members have been active in working with NCSEA to develop proposals and in opposing proposals developed by NIST and ICC’s ad hoc committee Terror-Resistant Buildings (TRB). The NCSEA proposals were intended to be an alternative to the TRB proposals. In the end, however, the IBC Structural Committee disapproved both the NCSEA and TRB proposals.

**Wind:** Together with SEAOC and SEAO, the SEAW Wind Committee developed a new simplified wind procedure, based on the analytical procedure of ASCE 7 but less complex in terms of calculating wind loads. The procedure was approved by the IBC Structural Committee, and a similar procedure is being proposed for the 2010 edition of ASCE 7.

**Seismic:** Since most of the seismic provisions are maintained by ASCE 7, the number of IBC proposals was fairly limited. One noteworthy result was that Supplement #2 of ASCE 7-05, which restored a minimum base shear equation that had been deleted in ASCE 7-05, was approved for the 2009 IBC.

**Foundations:** An SEAW-led ad hoc group (with both structural and geotechnical participants) generated 23 change proposals to reorganize and rewrite Chapter 18 of the IBC in its entirety. The proposals were coordinated with other professional, technical and materials-interest organizations. All 23 of the coordinated proposals were approved by the IBC Structural Committee. A composite document showing the

(Continued on page 9)
2008 NCSEA EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

Call for Entries

NCSEA announces the eleventh annual Excellence in Structural Engineering Awards Program. This program annually highlights some of the best examples of structural engineering ingenuity throughout the world. Structural engineers and structural engineering firms are encouraged to enter this year’s program. Projects will be judged on innovative design, engineering achievement and creativity.

Up to three Excellence in Structural Engineering Awards will be presented in each of the following five categories: New Buildings Under $30M, New Buildings $30M to $100M, New Buildings Over $100M, New Bridges and Other Structures. One project in each category will be chosen as an Outstanding Project. Eligible projects must have been completed between 01.01.05 and 12.31.07.

Entries are due on Friday, July 25, 2008. Awards will be presented in October at the NCSEA Annual Meeting in Cleveland, Ohio. Winning projects will be featured in future issues of STRUCTURE Magazine. For award program rules, project eligibility and entry forms, see the Call for Entries on the NCSEA web site at www.ncsea.com.

National Council of Structural Engineers Associations
SEAW Spring Seminar Part II

Friday, May 16, 2008

Register now for the second of a two-part seminar being sponsored by the Structural Engineers Association of Washington. Speakers will share topics not specifically addressed by Design Standards relating to serviceability considerations in the design and construction of steel and concrete framed structures. Serviceability topics to be presented include, but are not limited to, vibration, short-term and long-term deflection, camber, creep, shrinkage, cracking, curing, durability, construction tolerances, shoring and reshoring. Presentations will also include practical case studies. A question and answer panel discussion will follow the presentations at each seminar.

Vendors will share important product information for practicing engineers.

Featured Presenters include:

Bijan Aalami, S.E., Ph.D., Professor Emeritus of Civil Engineering at the University of Washington.

Joe Ferzli, P.E., Senior Associate, Cary Kopczynski & Company Structural Engineers.

Mark Whiteley, S.E., Principal at Cary Kopczynski & Company Structural Engineers

Professional Development:

Each seminar is valued at 6 PDHs. Certificates will be available on completion.

Registration Fees:

SEAW Members $125
UW Faculty $125
Non-Member $175
Student $40

Late fee: for registration after 5/9/08: add $25

Register Online at www.seaw.org. Be sure to log in if you’re a member.

SEAW to hold ATC-20 Training

May 30 or June 6, 2008

The SEAW Disaster Preparedness & Response Committee and King County are hosting 8-hour training sessions on Post-Earthquake Building Safety Evaluation Procedures (ATC-20). The ATC-20 training will help you develop the skills to properly assess earthquake-damaged buildings for occupancy following a major earthquake. The last 2 hours of this course will include an orientation to King County Emergency Program, an overview of the RCW pertaining to volunteer emergency workers and registration of volunteer emergency workers.

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TIME: 8:00 a.m. to 5:00 p.m.
LOCATION: Bellevue City Hall - Council Chambers
450 110th Ave NE, Bellevue, WA

Parking is limited - please carpool!

COST: $35.00 (Includes seminar and ATC-20 Field Manual)

REGISTER ONLINE: www.seaw.org, e-mail seaw@seaw.org, or phone SEAW at 206-682-6026

For complete information, see the flyer in this newsletter or visit the SEAW website at www.seaw.org.

SEAW Refresher Course

August 2008 (dates to be announced)

Held in cooperation with the University of Washington Department of Civil Engineering

Whether you are preparing for the Structural II or III examination or simply want to brush up on your skills, you will want to attend the SEAW Structural Engineering Refresher Course this summer! Experienced structural engineers will be leading discussions in twelve different lectures featuring analysis, masonry, lateral forces, wood structures, reinforced concrete, prestressed concrete, structural steel and foundations and retaining structures. Participants will be provided with updated comprehensive notes for each registered course. Register for the entire course or take advantage of the "half refresher" course option and 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 leaders in your community. Registration will begin June 1st. Watch the SEAW website for further information!

Structural Masonry Design Seminar

The Northwest Concrete Masonry Association will be conducting a one-day seminar focusing on the design of reinforced concrete masonry construction. Both working stress and strength design methods of the 2006 IBC and 2005 MSJC codes will be covered.

The seminar will be held throughout the northwest as scheduled below:

April 16 Spokane
May 7 Seattle
May 29 Portland
June 4 Seattle
June 12 Tri-Cities
July 17 Boise

The seminar will cover design examples of masonry building elements by manual and automated methods. It is aimed at practicing engineers who want to learn how to design masonry in a practical and efficient manner.

Additional information can be obtained from the Northwest Concrete Masonry Association at 425.697.5298 or www.nwcma.org.

2008 SEA NW Conference Engineers Gone Wild!

June 19-21, 2008

The SEA NW Conference in Sun Valley, Idaho is only 2 months away! Mark your calendars and make plans now to attend the 2008 SEA NW Conference hosted by SEAI! Conference schedule and registration package are available at www.seaidaho.org. New information is being posted regularly. We’ll see you there!

NEHRP Website Established

A website has been established to provide ongoing information regarding the NEHRP Consultants Joint Venture formed by Applied Technology Council (ATC) and Consortium of Universities for Research in Earthquake Engineering (CUREE), in cooperation with the Mid-America Earthquake (MAE) Center, the Multidisciplinary Center for Earthquake Engineering Research (MCEER) and the Pacific Earthquake Engineering Research (PEER) Center.

The joint venture has been formed to conduct the National Institute of Standards and Technology (NIST)-funded National Earthquake Hazards Reduction Program (NEHRP) Earthquake Structural and Engineering Research Contract, which was awarded in September 2007.

To find out more about how the NEHRP Consultants Joint Venture will conduct broad problem-focused research, knowledge development, synthesis and technology transfer programs for NIST, we invite you to visit the following link: http://nehrp-consultants.org/
STRUCTURAL ENGINEERING
REFRESHER COURSE 2008

August 7—September 16, 2008
Tuesday & Thursday Evenings • 6:30—8:30 PM
University of Washington • Room 234 More Hall

A Refresher Course designed to assist those engineers preparing for the NCEES Structural II and Washington State Structural III license examinations. Twelve two-hour lectures will present information dealing with:

Analysis & Wind  Lateral Forces
Structural Steel  Wood Structures
Reinforced Concrete  Prestressed Concrete
Foundations/Retaining Structures  Masonry

Speakers include experienced structural engineers from the Seattle area. Registrants will receive comprehensive notes for each lecture. For further information, please visit www.seaw.org, e-mail seaw@seaw.org, or phone SEAW at 206/682-6026

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.
Get some PDHs. Register Today!

REGISTRATION DEADLINE:
Friday, August 1, 2008

See page 2 for course schedule and registration form
### SEAW REFRESHER COURSE 2008
August 7—September 16, 2008
Room 234 More Hall, University of Washington, Seattle

#### SCHEDULE AND REGISTRATION FORM

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<td>August</td>
<td>7 Thu</td>
<td>Introduction, Analysis &amp; Wind</td>
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<td>Lateral Forces I</td>
<td>Mike Visser, PE, SE</td>
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<td>Prestressed Concrete</td>
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<td>Steve Dill, PE, SE KPFF Consulting Engineers, Inc</td>
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<td>Structural Steel Design I</td>
<td>Mark Moorleghen, PE, SE</td>
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<td>September</td>
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<td>Structural Steel Design II</td>
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<td>Wood Structures Design I</td>
<td>Peter J. Hart, PE, SE</td>
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<td>September</td>
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<td>Wood Structures Design II</td>
<td>CT Engineering, PLLC</td>
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<td>September</td>
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<td>Foundations</td>
<td>Andrew McGlenn, PE, SE Jacobs Associates</td>
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- 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 August 1st and they will be shipped to you the first week of the course. (Washington addresses please add your local sales tax to your order)

#### SEAW Refresher Course
Register online at [www.seaw.org](http://www.seaw.org) or use this form. Registration Deadline is Friday, August 1, 2008

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**Method of Payment**
- [ ] Check or Money Order enclosed
- [ ] Please charge my MasterCard/VISA

**MC/VISA #** ________________________________ **expires:** ________________________________

**Print name on card:** ________________________________

**Authorized Signature:** ________________________________

**MAIL FORM & PAYMENT TO:**
SEAW • PO Box 44
Olympia WA 98507

**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 7.
  - WA State addresses, please add local sales tax to your order.
  - [ ] SEAW Member $192.00
  - [ ] Non-Member $240.00
changes to Chapter 18 and related sections is available for download from the SEAW website.

Existing Buildings: Working through NCSEA, the existing building committees of SEAOC and SEAW submitted about two dozen proposals for IBC Chapter 34 and the IEBC. Several of the proposals significantly reorganized and clarified Chapter 34. Also approved was a proposal to include the IEBC as a deemed-to-comply alternate to Chapter 34. Among the IEBC proposals that were approved by the ICC Existing Building Committee, several improved the clarity and usability of the code and another will permit more flexibility in the IEBC by allowing ASCE 31 and ASCE 41 to be used for all three compliance methods. Also of significance in western Washington, the committee approved a proposal that will require seismic evaluation and possible rehabilitation of wall anchorage in concrete and reinforced masonry buildings with flexible diaphragms assigned to Seismic Design Category D in conjunction with reroofing permits. (The 2006 IEBC has a similar provision that applies to unreinforced masonry buildings).

Provided that the committee actions hold up at the Final Action hearings in September, you can expect an improved set of codes in 2009, thanks in part to the active support of SEAW and its members.

- Peter Somers

Mark Your Calendar

May 2008
- Friday 16 SEAW seminar series Part II: “Serviceability of Concrete Floors”
- Tuesday 27 Seattle Chapter Spring Social and Wine Tasting Evening Awards and Recognition event
- Friday 30 ATC-20 Training – Bellevue [see website for details]

June 2008
- Friday 6 ATC-20 Training – Bellevue [see website for details]
- Saturday 14 PSEC Inter-Society Officers’ Workshop
- Sat. & Sun. 21-22 SEA NW Conference: SEA of Idaho hosts.

July 2008
- No meetings

August 2008
- Tuesday 26 Summer Casual & Committee Spotlight
- TBA SEAW Refresher Course
- TBA Second Annual Structural & Civil Engineering Softball Tournament

Watch the SEAW website for Calendar updates!
Current 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.

Opportunities

Structural Engineers

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Seattle Structural 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 staff of 10 in one of Seattle’s most vibrant office towers, specializing in public, commercial, retail, industrial and specialty projects. We offer excellent benefits and stimulating work in a casual and interesting work environment.


Send resumes to: Pete Pawlak, PE 1420 Fifth Avenue, Suite 425, 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 - 112 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, surveying, 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 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 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

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SEAW Seattle Chapter Equilibrium
He Knew He Wanted to Own a Business, He Didn’t Know He’d Do It as an Engineer

At Degenkolb, he can. And so can you. We offer a clear path to leadership and ownership and are actively recruiting structural engineers. Join us and have the opportunity to follow your interests and develop clients for life. We encourage lifelong learning and support professional and community-based activities. Be part of a firm dedicated to innovative structural engineering and seismic safety worldwide. Ownership opportunities are provided to all employees in addition to open access to firmwide financial information. When you’re not managing your practice and your business, you can relax in one of four company cabins. EOE.

Join Us!
Email your resume to:
career@degenkolb.com
Structural Buildings Engineer

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.

Are you a Structural Buildings Engineer, interested in a challenging position and want to Shape a better world? Do you want to work on some of the most prestigious building projects in the Pacific Northwest? Arup was “Voted Best AEC Firms to Work For” by Building Design + Construction Magazine. Arup may be the place for you to demonstrate your talents in cutting edge design. At Arup, you will be working in a team of talented engineers developing designs and delivering projects in the US and around the world. We design a wide range of project types including Healthcare and Laboratories, Commercial buildings (high rise and medium rise), Museums and Galleries, Stadiums and Education buildings. We have excellent benefits and we work in a collegiate, multi-disciplinary environment where engineers mix and work in teams such that you will experience sustainability in its broadest sense as well as working with talented acousticians, fire engineers, facade specialists, energy modelers, lighting specialists and many others.

We are seeking a Structural Buildings Engineer with superior design/including west coast seismic design skills and analysis/including non-linear 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.

Requirements:
- 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.

To apply, visit www.arupamericascareers.com Position # 08-0077

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 posttension 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 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

In depth knowledge of AutoCAD

Minimum 3 years working experience in consulting structural engineering. PE preferred.

We offer excellent benefits and while efficiency is essential we pride ourselves in providing a casual and positive work environment. If you have an interest in pursuing a career in a dynamic, fast paced engineering office send a resume to jobs@au-eng.com or fax resume to (425) 614-0950

Bridge Project Manager

HDR, an employee-owned architectural, engineering, planning and consulting firm, excels at helping clients manage complex projects & make sound decisions.

Description:
HDR seeks: fully experienced/competent Bridge PM to join Boise, ID office. Our bridge team is ranked top 10 in ENR’s Top Bridge Design Firm list. Primary duties includes serving in a lead technical role on bridge design projects; performing complex structural planning, analysis & design for all structural aspects of transportation projects. Projects include bridge (steel plate girder, prestress concrete, segmental & cable) box culvert & interchange design for highway/railway projects. Must be comfortable being viewed as technical expert in engineering analysis/design & have proven background of technical leadership on these project types. Position often performs as technical specialist or project manager on mid-size projects & supervising junior engineers’ performance of engineering tasks.

Experience Required:
- BSCE required, MSCE-Structural Engineering preferred.
- PE required. SE preferred.
- 10+ years bridge/structural design.
- Proven hands-on-experience in all aspects of bridge design projects.
- Proficient: Microsoft Office software, GeoPak, AutoCAD & Microstation.
- Experience: using structural analysis/bridge design software.
- Demonstrated Skills: leadership, communication, project management, strong commu-
Opportunities

(Continued from page 12)

- Willing/Ability to work with various teams in a team environment.


Employer JobCode: 071571 [GJ.3557161.1404]

Ports and Marine Engineering Manager

HDR, an employee-owned architectural, engineering, planning and consulting firm, excels at helping clients manage complex projects and make sound decisions.

Description:

Manage marine transportation related projects for onshore/offshore maritime activities including but not limited to: sitting & location of terminals; marine facilities including deep water ports; marine traffic & navigation safety evaluations; ports/waterways development & improvement; assessment of environmental & operational impacts. Broad working knowledge of & experience with commercial maritime activities & port/marine facility operations is necessary. Familiarity with USCG/USACE regulatory authorities, programs & practices is crucial; familiarity with roles of USFWS, MARAD, MMS, EPA, FERC & other Federal/State agencies is highly desirable. Familiarity with environmental statutes & authorities related to the marine environment is desirable.

Experience Required:

- BS degree; Master’s degree preferred; field related to marine transportation or engineering
- Registration required
- 15+ years of related experience.
- Demonstrated team building skills necessary for effective coordination of diverse project teams.


Employer JobCode: 061943 [GJ.1071686.1404]

HELP WANTED ADS are accepted through the fourth Friday preceding the publication month. The cost for text ads is $50 per insertion pre-paid, with a 10% discount for ads running two or more consecutive months. Ad copy should be limited to 2000 words or less and must be submitted by e-mail. Advertising order forms and information about display advertising, can be found on our website at: http://www.seaw.org/resources_newsletter.cfm

Or request by e-mailing seaw@seaw.org.

Help wanted ads must be purchased through the newsletter to be included in the SEAW online job board.

STRUCTURAL ENGINEERING: From Vision to Reality

Are you able to prepare structural calculations and construction drawings for various project types?

Do you have 5+ years experience in structural detailing and seismic design, and possess a B.S. degree in engineering?

The good news is we are expanding and if you answered ‘yes’ to these questions, then we would like to know more about you.

We provide superior wages and offer excellent benefits within a flexible and casual work environment.

Additionally, we are a rapidly-growing and friendly team, offering the following unique perks:

- Annual Ski day
- Professional Development
- Friday continental breakfast
- Annual Cinco de Mayo celebration
- Office-wide bonuses & 401(k)
- Company sailing excursions
- Summer company picnic

For more information about us, visit: www.quantumce.com

For more details visit www.swensonsayfaget.com
Membership

Membership Applications

- Micah J. Florea
  Swenson Say Faget
  MS 2005, U of Texas Austin
  Class: Associate

- Brett Mozden
  Swenson Say Faget
  MS 2004,
  University of Illinois
  Class: Associate

- Max E. Reiche
  Seattle Structural
  MS 1999, BYU
  Class: Affiliate

- Ryan Tilley
  Seattle Structural
  BSCE expected 6/08
  Class: Student

Accepted Applications

- Michael Augustine
  Associate

- Nathan Galer
  Associate

- Alan C. Johnson
  MEMBER

- Waleed Khalid
  Affiliate

- Alex Lege
  Associate

- Tim Matthews
  Associate

- Joshua D Nelson
  Associate

- Jung-Koo Park
  Associate

- Keith Ryan
  Professional Associate

- Andy Tu
  Associate

- Joshua Yunker
  Associate

79% of Seattle Chapter Members have paid their 2008 dues.
HAVE YOU?

Online Dues Payment Instructions

1. Go to www.seaw.org
2. Log in to the member area (Default login name is your email address; password is your first name.
3. Click on “My Membership” in the menu bar
4. Select “Membership Renewal” in the gray menu bar
5. Follow the prompts to pay your dues online using your VISA or Mastercard.
6. When your payment has been made, you will receive an emailed receipt.

Forgot your Login Information? Simply click on “Forgot Password” under the Member sign in area and enter your email address. Your information will be emailed to you.

Want to send your dues the old fashioned way? No problem! Use the process above to determine your dues amount and mail your check to SEAW, PO Box 44, Olympia, 98501.