



# EQUILIBRIUM

Newsletter of the Seattle Chapter  
Structural Engineers Association of Washington

MAY 2007

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Ade Bright

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Shelley Clark

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## Summer is Upon Us!

No Meetings in June or July.

Mark your calendar for the August 28<sup>th</sup> Summer Casual at the Corinthian Yacht Club.

### *Seattle Chapter Spring Social and Awards Event*

JOIN US FOR AN EVENING OF

#### *Wine Tasting 101*

TUESDAY, MAY 22, 2007, 6:30 P.M.

#### *At Shilshole Bay Beach Club*

6413 SEAVIEW AVENUE NW  
JUST NORTH OF RAY'S BOATHOUSE

#### *Open Wine Bar with Hors D'oeuvres*

6:30 P.M. UNTIL 7:30 P.M.  
TASTE DIFFERENT WINES AND SOCIALIZE

#### *Program: Wine Tasting 101*

7:30 P.M. UNTIL 8:00 P.M.  
DAVID WILL PAIR 3 WINES WITH APPETIZERS  
AND PROVIDE EXPERT TIPS ON WINE TASTING

#### *Awards Program*

8:00 P.M. UNTIL 8:30 P.M.  
WINE BAR WILL BE OPEN

#### *Cost*

SEAW MEMBERS & GUESTS—\$40.00  
NON-MEMBERS— \$45.00  
LIFE MEMBERS— FREE

#### *Reservations Required*

Register online by Wednesday May 16  
[www.seaw.org](http://www.seaw.org) • e-mail [seaw@seaw.org](mailto:seaw@seaw.org)  
or phone 206-682-6026

*This is NOT a Full Dinner Event*

Join us for SEAW's first annual wine tasting event and awards program. We invite our Life Members to attend as honored guests of SEAW. The program will honor our Life Members as well as recipients of the Seattle Chapter Presidents awards, and will close with the installation of the new board of directors.

We are pleased to announce that David LeClaire, a well known Seattle Sommelier, will take us on a wine tasting journey. The wines will be paired with light appetizers and should make for a very informative and enjoyable evening.

David LeClaire is a certified sommelier from the Court of Master Sommeliers, who served as wine director at Seattle's prestigious Alexis Hotel & Library Bistro (formerly the Painted Table Restaurant) where he was employed for ten years. David cre-



ates & presents a wide variety of exclusive events ranging from wine and food groups in private homes and restaurants, to fundraisers, art openings, holiday parties and full-scale corporate events.

David is also a free-lance writer for Northwest Stir & Hospitality News Magazines. An entertaining speaker, David is often paid to help auctions generate more money for their charities by working in tandem with auctioneers, bringing their wine-related items to life.

Those who attend his memorable events inevitably leave with valuable "real world" information and an increased appreciation for wine and wine making.

Shilshole Bay Beach Club is located just north of Ray's Boathouse; you can also make a reservation at Ray's after the wine tasting if you want to make a full evening out of the event with your spouse or friends.

## FROM THE BOARD: A President's Appreciation

Every May, as we approach the changes in SEAW Leadership, the outgoing President, on behalf of the SEAW Board, takes time to acknowledge those who gave their commitment and efforts to promote the goals and function of the organization. We also take this opportunity to review the events, achievements and challenges of the past year.

Departing from the Board after serving their terms are past President Peter Hart, and director Andrew McGlenn. We would like to thank them for all they have done throughout their tenure. Although no longer members of the Board, I am confident they both will continue to serve on their respective committees and provide an invaluable contribution, as always.

Coming into her new role of President is Shelley Clark. We acknowledge her for her work and achievements this year. Her high level of effort was evident in the variety and quality of dinner presentations, mini seminars and membership registrations for which she was responsible. Her eagerness to know things and willingness to ask why has

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Advertising rates (prepaid, please): Help Wanted/Job wanted, \$50; Display ads: Quarter page, \$90; Half Page, \$120; Full Page \$150; inserts, pre-printed 8 1/2 X 11 inch flat, \$150. 10% discount for ads running two or more months. Deadline is the fourth Friday of the month. Contact SEAW for an Advertising Order Form.

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benefited us by requiring us to revisit the status quo and make changes when necessary.

Our incoming Vice President, Scott Douglas, has recruited many from his company, which was instrumental in driving up membership registration as well as attendance at dinner meetings. Through his efforts, his company has sponsored a number of student members into SEAW functions.

As Shelly and Scott both move into their elected positions, we can rest assured that we are in good hands for the coming year.

We'd like to also recognize our current board members. Ted Smith, SEAW Treasurer, whose guidance and management of finances has enabled SEAW to reach its goal of financial viability.

Peter Somers, who is always ready to volunteer to take on anything that needs to be done. His willingness and "can do" attitude does not go unappreciated.

And when Bob Morrison needed, for personal reasons, to resign from the Board and other committee assignments, we had to call upon someone to serve out his term. Daniel Lake jumped in midstream, willing and able to do whatever was necessary. We thank Daniel for his commitment and wish Bob well.

New to the Board are Peter Upsahl and Philip Brazil. We look forward to their contributions.

### Committees

As usual our committees have been hard at work representing us well when it comes to technical development, code and legislation. A remarkable example of their work is the passage of the Structural Engineer Prac-

tice Act, Senate Bill 5984. This law allows only structural engineers to provide engineering services for significant structures. This is a major accomplishment and we applaud Robert Bourdages and the Legislative Committee for their work and persistence. Also thanks to those of you who called your legislative representative in support of the bill.

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

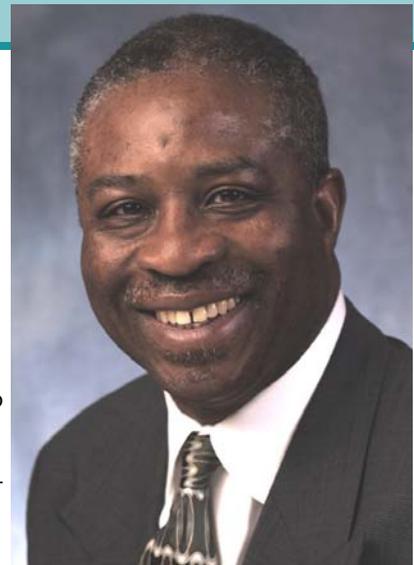
To continue enhancing our visibility and taking charge of the fate of our profession, we need and rely upon our committee members. Your service to the profession is valued no matter how small. If we don't participate in our existence then others will determine our fate.

### Younger Member Forum (YMF)

The YMF is growing and achieving their goals, thanks to the leadership of Cale Ash, Andrew McGlenn and Mark Pierepiekarz. Also contributory to this success are the increasing number of employee memberships, as well as increasing attendance in mini-seminars and dinner presentations. Some supportive companies leading in this increase are MKA, DCI, and Poggemeyer Design Group. I encourage other firms to follow suit and join in this effort.

### Membership

As of the end of 2006, our membership hit an all-time



high of 557 members. We hope to break this record in 2007.

### Upcoming Events

One of our goals this year is to host a successful 2007 Northwest Conference. The planning committee has been working to achieve this goal. The conference is scheduled for September 13-15 at the Downtown Sheraton Hotel. The theme is "Twisting, Turning and Learning with 2006 IBC." See the announcement in this edition for a glimpse of what is planned. Look for updates in the mail or visit our website [www.seaw.org](http://www.seaw.org) for programming, events and costs. We are encouraging companies to purchase several day passes (all of which are transferable) in order to take advantage of as many different sessions as possible.

And lastly, I am stepping down after my term as President. But, I'm not going out to pasture just yet. I will continue serving on the Seattle Chapter Board as Past President, and on the State Board as President. I am looking forward to working with everyone.

-Ade Bright, outgoing president

[ab@brighteng.com](mailto:ab@brighteng.com)

## Meet Your New Board Members



The results of the 2007 Seattle Chapter election were announced at the April 24<sup>th</sup> dinner meeting. Our new board will be installed at the May 22<sup>nd</sup> Spring Social and Awards Event. The 2007-2008 directors are Shelley Clark, President; Scott Douglas, Vice President; and Philip Brazil and Peter Opsahl, 2007-2009 directors. They will join continuing board members Daniel Lake and Peter Somers, 2006-2008 directors; Ted Smith, Treasurer; and Ade Bright, Past President.

### Shelley Clark

**Shelley Clark, President**, is a Principal and 22-year employee at Magnusson Klemencic Associates, a 140-person structural and civil engineering firm with projects in 46 states and 40 countries. She leads MKA's Retail Group, designing full-scale malls, urban entertainment and mixed-use facilities, and lifestyle centers. Shelley earned her BSCE and MSCE from the University of Washington and, as a rare Pacific Northwest native, carries a true commitment to this area.

Shelley is an active member of SEAW, serving as Vice President during the 2006/2007 term. She was also on the Board of Directors from 1993 to 1995. Other professional affiliations include the International Council of Shopping Centers, the Urban Land Institute, Commercial Real Estate Women – Northwest, and the Southern Building Code Congress International. She frequently reaches out as a national presenter and guest lecturer, including the UW's Civil Engineering Graduate Program.



### Scott Douglas

**Scott Douglas, Vice President**, is a Senior Project Manager with DCI Engineers in Bellevue. Scott grew up in the Los Angeles area, graduated from Cal Poly Pomona in 1973, and 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 Education Committee, Wind Committee, and Earthquake Engineering Committee's Wood Task Force, as well as the Associated Builders and Contractors Framers' Council. Scott is also the NCSEA representative on the ANSI/TPI 1 Committee for the Metal Plate Connected Wood Truss Construction Standard. Scott operated his own structural consulting firm before joining DCI Engineers six years ago.



### Phillip Brazil

**Phillip Brazil, Director**, is a Senior Engineer with Reid Middleton, Inc. He received his BSCE from the University of Washington in 1971. He began his professional career with the city of Seattle, the last 6 years as an Associate Structural Plans Engineer. In 1985, he joined the firm of CDS, Inc. as their Director of Engineering. In 1998, he became a staff engineer with the International Conference of Building Officials before joining Reid Middleton in 2001. He has been registered in Washington state as an SE since 1981. He has been an active member of SEAW since 1986.

He is a member of the SEAW Earthquake Engineering Committee, Building Engineering Committee (chair) and Wood Task Group (former chair). He has been a presenter at the two most recent SEAW seminars on seismic design. In addition to SEAW, his professional involvement includes the AF&PA Wood Design Standards Committee, TS-7 Subcommittee (wood structures) of BSSC, ASCE 7 Main Committee and ICC Building Code Interpretation Committee.



### Peter Opsahl

**Peter Opsahl, Director**, is the President of Peter A Opsahl Structural Engineering, Inc. and has held that position since the firm's inception in early 2001. After graduating from Seattle University in 1983 he began working with Skilling Ward Magnusson Barkshire (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, as well as in Southeast Asia. Also he provides Project Management services to the Port of Seattle. Of the projects that Peter managed two of the more notable were the demolition of the old Rainier Cold Storage Complex at Terminal 25 and the construction of the Bypass Conveyors on top of the Terminal 86 Grain Elevators. Peter is a licensed structural engineer in Washington, California, Oregon and Colorado.

### Michael T. Valley named Seattle Chapter Engineer of the Year

The 2007 Seattle Chapter Engineer of the Year award was presented at the April 24<sup>th</sup> meeting – a month earlier than the usual May presentation due to schedule conflicts. This year's recipient, Michael Valley was presented the award by 2000 recipient Bob Anderson. The award recognizes individuals who have provided service to SEAW and the profession; brought visibility to the profession that is favorable in the public eye; have exhibited distinguished technical and creative achievement; and have encouraged and nurtured others in their professional development.

**Visibility:** Mike has been a very visible member of the engineering community. He is just completing his seventh year as chair of the Earthquake Engineering Committee. In this role he has worked diligently to promote good building codes, and to represent SEAW before our sister organizations, such as SEAOC, as well as in the IBC, NEHRP, and SEI forums. Examples of this visibility include participation in the code development process, testimony before committees of the Washington State Legislature, work on the Seattle Fault Scenario report, and countless technical presentations. Mike has represented FEMA's Code Resource Support Committee at building code hearings since 2002.

**Service to SEAW and the Profession:** Being the chair of the

Earthquake Engineering Committee is almost a full time job. The committee has 19 voting and 60 corresponding members. Mike handles the logistics: setting the agendas, arranging the venue, chairing the meetings, and distributing the minutes. However, as with most committee activity, the real work lies in selecting tasks, starting them thoughtfully, keeping the efforts moving forward through coordination with others, and putting on the finishing touches. Under his leadership the EEC has developed several Task Groups, which presently address Geotechnical, Concrete, Light-framed Construction, and Existing Buildings issues. Mike has served as a writer and technical editor for several seismic design documents including FEMA 356, FEMA 450, FEMA 451, ASCE 7-05, ASCE 41, and the 2008 NEHRP Recommended Provisions and Commentary. He has also participated in several Applied Technology Council projects. As a member of the American Society of Civil Engineers (ASCE) Committee for Seismic Rehabilitation of Existing Buildings Standards, Mike has been intimately involved in the update and revision of an evaluation standard (ASCE 31) and a rehabilitation standard (ASCE 41).

**Technical Expertise:** Through his project experi-



Chapter President Ade Bright (right) congratulates Engineer of the Year Mike Valley

ence and technical committee work, Mike has developed special expertise in seismic design, foundation analysis and design, and development of codes and standards. In addition to his work in developing performance-based seismic design approaches, he has applied those approaches to both new and existing construction, especially where enhanced seismic performance is desired (as for hospitals and other essential facilities). His recently designed essential facilities include Bellevue City Hall; the Seattle Command Center; and a new emergency department, ICU, and bed tower at Valley Medical Center.

**Ability to Nurture:** Mike nurtures the engineers who work for him and helps

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

Our congratulations to Mike for this very well-deserved recognition of his many outstanding contributions to SEAW and the engineering profession.



### Structural Engineers Practice Act Signed into Law!

Governor Gregoire signed SSB 5984 into law on April 21<sup>st</sup>, with SEAW President Steve Hawk, Legislative Chair Robert Bourdages and SW Chapter President Mark Leingang in attendance among others. The law, allowing only structural engineers to provide engineering services for significant structures, will go into effect July 1<sup>st</sup>, 2008. This is the culmination of an effort begun over fifteen years ago, and most recently taken up by SEAW 2005 President Robert Bourdages. The final bill may be viewed at <http://apps.leg.wa.gov/billinfo/summary.aspx?bill=5984&year=2007>. Congratulations and thanks to Robert Bourdages for his tireless effort, and thanks to the many SEAW members who helped in the formation of the bill by forwarding their comments, and later recommending its passage to their legislators.

## Meeting Recaps

### Classy Glass Highlights April Meeting

By Daniel Lake

Encyclopedia Britannica describes Filigree as "delicate, lace like ornamental open work composed of intertwined wire threads of gold or silver..." a style of jewelry. The April 24th SEAW Seattle/Southwest chapter's joint meeting lecture glittered with an impressive display of the power of Glass Structures. Charles Bostwick, Vice President of Seele L.P. New York led us on a dazzling tour highlighting Seattle Central Library's Glass skin, illuminating the development of Seele's expertise into more and more exotic designs. The use of Glass as structural beams, columns, restrained arches and domes stabilized by the filigree of steel cables, bonded steel edges and, delicate-appearing connections was inspiring.

Projects such as the train station in Strasbourg, with cold formed/laminated arches of glass demonstrated how powerful its properly stabilized strength in compression can be. The reach



Apple Cube courtesy CNET Networks

of Seele's creative processes is in full display at the Apple high profile store in New York with an enormous cube framed of glass beams, pilasters and shear walls. The gem inside, a spiral stairway formed of coiled glass rails, with glass treads - the merest hint of steel being at the seats of the treads.

Sometimes it is rewarding simply to look up from our desks, littered with impending deadlines and appreciate the power of the mind to create. Tuesday night was a full meal deal.

*Daniel Lake is Senior Structural Engineer with Engineers Northwest, and a Director on the Seattle Chapter Board. Dan can be reached at [danl@enwseattle.com](mailto:danl@enwseattle.com).*

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### Steel Moment Frames Topic of April Mini-Seminar

By Peter Somers

The April mini-seminar, presented by Bryan Zagers of Coughlin Porter Lundeen, covered the design of Special Steel Moment Frames based on the requirements in the 2006 IBC. Bryan began with a brief background leading up to the current requirements: from the Northridge earthquake failures to the SAC Joint Venture project and the subsequent FEMA documents (FEMA 350-353). For the 2006 IBC, the SAC/FEMA recommendations have been incorporated into the reference standards and expanded based on the results of additional testing programs completed after the original SAC project.

The requirements for steel moment frames are contained

in several standards: including AISC 341-05 (Seismic Provisions for Structural Steel Buildings) and AISC 358-05 (Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications). AISC 358 is a new standard, containing prequalified connections and the requirements for connection qualification. Pre-qualified connections are those for which sufficient testing has been performed on a range of beam and column sizes, such that the prescriptive connection design is deemed adequate without additional testing. Connections that aren't pre-qualified require a qualification program in order to be used.

Steel moment frames are classified as Ordinary, Intermediate, and Special, based primarily

on the expected ductility available in the connections, measured in terms of maximum acceptable joint rotation. Connection qualification also follows these classifications. Although Ordinary and Intermediate moment frames can be used in some cases in our area (Seismic Design Category D), there are severe limitations on building height or weight. Therefore, the seminar focused on Special moment frames in general and on the design of the "reduce beam section" (RBS) type of moment frame in particular. This moment frame type is one of the few pre-qualified by AISC 358 (and the only one pre-qualified for use in composite slab on steel deck construction). Bryan noted that other connections, including proprietary connections, are in the process of becoming pre-qualified by AISC 358.

Bryan concluded the seminar with a design example for a representative RBS moment frame. The example included preliminary sizing and proportioning (generally based on satisfying drift limitations), determining the flexural and shear demands at the reduced section and the face of column, confirming that strong column / weak beam is satisfied, examining the panel zone and continuity plate requirements, and detailing a sample connection (including the details of the reduced section, shear connection, and welding requirements).

*Peter Somers is a Senior Associate with Magnusson Klemencic Associates in Seattle, and serves on the Seattle Chapter Board of Directors. Peter can be reached at [psomers@mka.com](mailto:psomers@mka.com).*

## Code Updates

### Your SEAW Code Committees at Work

Only a few short weeks after the 2006 IBC is enforced throughout Washington, code change proposals for the 2009 IBC are due to the ICC. The date for submitting code change proposals is August 20, 2007.

Several SEAW committees are already busy working on code updates. In particular, the Building Engineering, Earthquake, and Wind committees are working on developing proposals to improve the building code.

The Building Engineering Committee (Phil Brazil, chair) is developing proposals primarily related to improving the

clarity, consistency, and enforceability of the IBC related to load criteria and load combinations (see also the article in the April 2007 newsletter).

The Earthquake Engineering Committee (Mike Valley, chair) is working on significant revisions to IBC Chapter 18 (foundations) related to both the geotechnical and structural aspects of the chapter. These revisions are intended to improve the clarity of the chapter, eliminate redundant and sometimes conflicting provisions, and make the chapter more in line with current geotechnical practice.

The Wind Engineering Committee (Don Scott, chair) is

developing a new simplified procedure for determining wind loads that is based on the SEAW Rapid Solutions Methodology (RSM).

While your SEAW dues support these committee activities in terms of travel to code hearings and some committee overhead, by far most of this work is based on countless volunteer hours contributed by the committee members. If you have any suggestions for potential code improvements, or better yet, wish to help out with these efforts, please contact the committee chairs.

### Public Comment Period on MSJC-08

The Masonry Standards Joint Committee (MSJC) is in the process of determining revisions to the 2005 edi-

tions of the Building Code Requirements for Masonry Structures (ACI 530-05/ASCE 5-05.TMS 402-05), including its Specification and companion commentaries. The proposed revisions are now open for public comment until May 31, 2007. If you wish to submit a public comment, you can do so at

[www.masonrysociety.org/html/committees/tech/msjc/MSJC\\_Public\\_Comment.htm](http://www.masonrysociety.org/html/committees/tech/msjc/MSJC_Public_Comment.htm). Access to the proposed revisions and their rationale can also be found at the same link. If you have any questions about the process of submitting public comments, please contact me.

-Phil Brazil, Chair, Building Engineering Committee  
[pbrazil@reidmidd.com](mailto:pbrazil@reidmidd.com)

## Meeting and Seminars

### Refresher Course 2007 August 2 through September 13, 2007

*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 2007 Structural Engineering Refresher Course this summer! Experienced structural engineers will be leading discussions in fourteen 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 new updated comprehensive notes for each registered course. Take advantage of the "half refreshed" course 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 leaders in your community. Regis-

tration will begin June 1<sup>st</sup> with registration deadline July 27, 2007. Watch the website for further information!

### SEA NORTHWEST CONFERENCE

#### Twisting, Turning, Learning Using the 2006 IBC

September 13-15, 2007  
Seattle Sheraton Hotel

Mark your calendar now for the 2007 Northwest Conference, featuring special guest presentations by Paul Dorpat, Seattle Chronicer, and Mahmoud Kamara, Ph.D. of the Portland Cement Association. A wide array of technical sessions is in the works. Our convenient location in the heart of Seattle will allow registrations to be transferable so that different employees may attend single sessions under one registration. Recreational activities include a Friday Dinner Cruise and a Saturday Golf Tournament, followed by a Family BBQ and an optional Mariner's game.

Watch the SEAW Website <[www.seaw.org](http://www.seaw.org)> for further information!

### Western States Seismic Policy Council 2007 Conference

September 30 – October 3  
Grand Sierra Resort, Reno

Theme: Risk Communication, Building codes, and Consequences: the Future of Earthquake Safety in the U.S.

For information, visit [www.wsspc.org](http://www.wsspc.org) or phone 916.444.6816.

### SEAW FALL SEMINAR: Seismic Design using the 2006 IBC and ASCE 7-05

On July 1, 2007 the 2006 International Building Code (IBC) takes effect across the state. Many of the structural design requirements of the 2006 IBC appear in the ASCE 7-05 standard, which has been significantly reorganized and rewritten. The upcoming seminar "Seismic Design Using the 2006 IBC and ASCE 7-05" addresses changes to design requirements in these documents and other reference standards.

Portland: Thursday, October 4,

2007 (McMenamins Edgefield)

Seattle: Saturday, October 13, 2007 (UW, Kane Hall, 120)

Spokane: Thursday, November 1, 2007 (venue TBD)

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

Watch the SEAW Website <[www.seaw.org](http://www.seaw.org)> for details!

### NCSEA Webinar May 22, 2007

"Evaluation of Joists and Joist Girders for Modification or Repair", presented by James M Fisher, Ph.D, Vice President, Computerized Structural Design, and Chairman of the AISC Committee on Specifications. This seminar will provide 1.5 hours of continuing education credit and is Diamond Review approved (acceptable for New York and other state continuing education credit requirements).

Please visit [www.ncsea.com](http://www.ncsea.com) for details and registration information.

# Opportunities

**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 180 words or less and must be submitted by e-mail. Advertising order forms and information about display advertising, can be requested by e-mailing [seaw@seaw.org](mailto:seaw@seaw.org).

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

## Staff Engineers



Structural Engineering design firm seeks outstanding individuals to fill immediate openings for Staff Engineers in both our Seattle and Tacoma offices. All experience levels considered and encouraged. We're a mid-size dynamic company recognized for our team work, creativity and innovation. We combine a very progressive benefits package with a fun, flexible and informal office culture. Email resume to [bbresko@swensonsayfaget.com](mailto:bbresko@swensonsayfaget.com) or fax attention Blaze Bresko at 206-443-4870. No phone calls please.

## Bridge/Structural Engineers

Otak's Kirkland office is seeking an Engineer to become an integral part of our Bridge/Structures team in the Seattle area. Qualified candidates must have a minimum of 3 years of experience in designing of bridges and transportation structures. Must be proficient in use of structural analysis & design software including WSDOT Bridge Engineering software; AutoCAD/Softdesk and/or Microstation/Inroads desired. Good written and oral communication

skills are desirable. BSCE and Washington PE license (or ability to obtain) is required; MSCE and/or registration as a structural engineer a plus. Please visit us and apply at [www.otak.com/careers](http://www.otak.com/careers) We are an Equal Opportunity Employer.

## Structural Design Engineer & Project Engineer

**MLA Engineering, PLLC** provides structural engineering design and consulting services for local, regional and national projects. We have two engineering positions available: one suited for a candidate with 5 to 10 years of design experience and the second for a candidate with 15+ years of design and management experience. We design with all major construction materials, with an emphasis in concrete and steel structures.

Candidates who are motivated to use their technical, organizational, and communication skills and who work well with a small group of professionals will welcome this opportunity. Our work environment encourages creativity, teamwork, and growth. Interested individuals please contact Michael Leonard at email: [mleopard@mlaengineering.com](mailto:mleopard@mlaengineering.com) or write to the address provided below.

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## Project Managers/Engineers



PCS Structural Solutions is a highly experienced firm of consultants specializing in Structural Solutions for Architecture. We've provided engineering services to architects throughout the Pacific Northwest and California for over

40 years. Our profession requires a diversity of skills learned over the course of an entire career, and understanding and communicating with our clients has a significant impact to our perceived performance – however our technical skills are prerequisites for everything else we do in Structural Engineering. *PCS was named one of the Best Structural Engineering Firm's to Work For by Structural Engineer Magazine.*

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

If you would like to be a part of our team we want to hear from you. For more information, visit our website at [www.pcs-structural.com](http://www.pcs-structural.com) or e-mail [resumes@pcs-structural.com](mailto:resumes@pcs-structural.com)

## Rail Structures Project Managers

HDR is an architectural, engineering, planning and consulting firm that excels at complex projects and solving challenges for clients. More than 5,600 employee-owners, including architects, engineers, consultants, scientists, planners and construction managers, in over 130 locations worldwide, pool their strengths to provide solutions beyond the scope of traditional A/E/C firms.

### Job Description:

The Bellevue, WA office of HDR Engineering is looking for a Senior Rail Structures Project Manager. While being viewed as a technical expert with recognized authority in

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Are you a results oriented person?  
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(206) 624-3775 [seattlehrd@coffman.com](mailto:seattlehrd@coffman.com)

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## Opportunities

an area Rail Structure and the specialization that resolves problems of great scope and complexity, you must be able to plan and develop projects and/or design activities which have significant impact on major company programs. You must be comfortable and confident in planning, organizing and supervising the work of a medium-to-large staff of professionals and technicians. Larger projects could require you also to take on the role of project manager.

**Experience Required:** BS or MS in Civil/Structural Engineering. 15+ years rail bridge/structures design management experience. 5+ years experience staff management. Washington PE or able to obtain. (SE helpful)  
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 Employer Job Code: 070144 [GJ.1633963.1404]

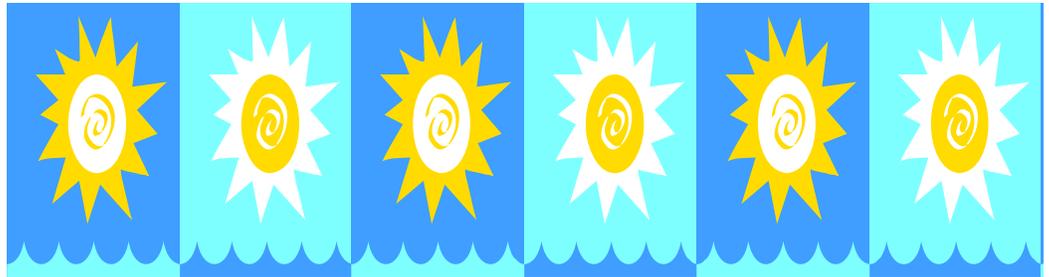
# HAVE YOU PAID YOUR DUES?

## We're at 76% PAID!

Thank you to our members who have responded to the e-mailed dues invoices, which were sent in mid-February. At this writing, 365 of our 480 dues paying Seattle Chapter members have paid their 2007 membership dues.

## YOU CAN HELP!

We're aiming for 100% paid before the summer break. To pay your dues online, sign in as a member on the website at [www.seaw.org](http://www.seaw.org). [Default log-in name is your e-mail address, password is your first name (up to eight letters)] Click the "My Membership" tab, then the "Renew Membership" tab in the gray menu bar. A pull-down box will show you any outstanding invoices. Select your invoice and follow the prompts to pay your dues.



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Contact:

**Pete Pawlak, Vice President**

Phone (206) 343-3000

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

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Grays Harbor County Courthouse Renovation



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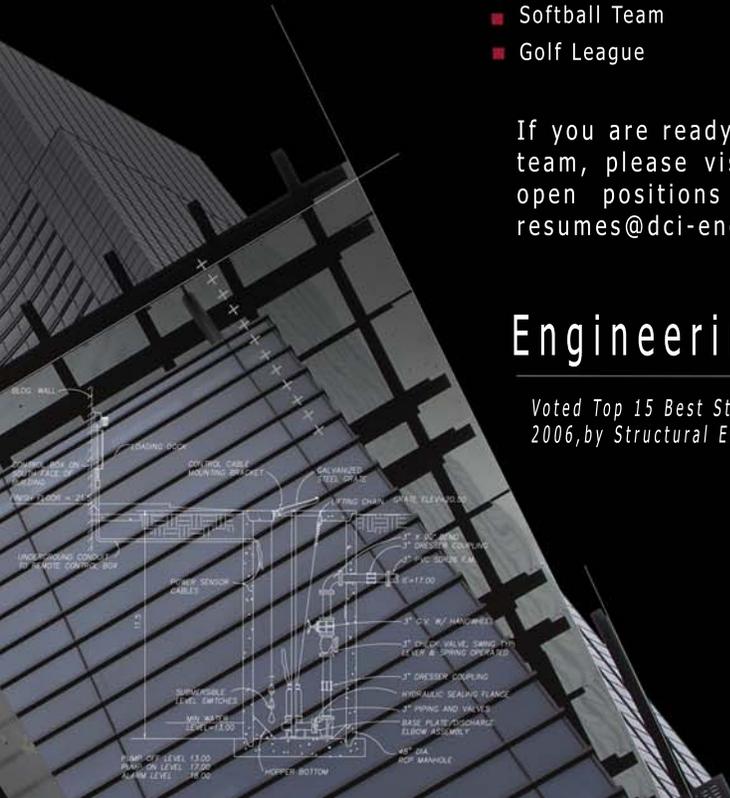
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**STRUCTURAL ENGINEERS ASSOCIATION  
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**Committees & Chairs**

House/Program	Shelley Clark	Earthquake Eng	Mike Valley	Presentations/Awards	Ade Bright
Code Advisory oversight	John Hooper	Legislation	Robert Bourdages	Professional Practices	John Tawresey
Exam Liaison	Ed Huston	Wind Engineering	Don Scott	Emergency Prep	Paul Brallier
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**Mark Your Calendar**

- May 18** SEAW State Board of Trustees Meeting
- May 31** Statewide Summer Newsletter Deadline
- May 22** Seattle Chapter Spring Social & Awards Event
- LOOKING AHEAD:**
- Aug 2** SE III Refresher Course Begins
- Aug 28** Seattle Chapter Summer Casual Meeting
- Sep 13-15** Seattle Chapter hosts the Northwest Conference
- Oct 13** SEAW Fall Seminar – Seismic Design Using the 2006 IBC & ASCE 7-05

**Membership**

**APPLICATIONS FOR MEMBERSHIP**

**Wayne Brown**  
University of Washington  
BS UW 2006  
MSCE  
Class: Student

**Lois Loesch**  
EES Consulting Inc  
BSCE 1976, Rensselaer Polytechnic Institute  
Licensed PE, WA  
Class: Professional Assoc.

**Jacob McCann**  
KPFF Consulting Engineers  
BS 2002 UW  
MS 2004 U Cal Berkeley  
Washington EIT  
Class: Associate

**Jeff Michelson**  
KPFF Consulting Engineers  
BA 2006 Carroll College  
MS June 07, UW  
Class: Student

**Catherine Poshusta**  
University of Washington  
BA Journalism, Gonzaga  
BSCE June 08, UW  
Class: Student

**Gregory Rogers**  
Magnusson Klemencic  
BSCE UW  
MSCE U of Texas Austin  
Washington EIT  
Class: Associate

**Lara Simmons**  
Swenson Say Faget  
BSCE 1999 U of Minnesota  
Licensed PE, WA  
Class: Professional Assoc.

**Shellie Simmons**  
Cary Kopczynski & Co.  
Intern/Student at UW  
Class: Student

**Ken Smolarek**  
Buckeye Building Fibers  
Manufacturer of Concrete Reinforcing Fiber  
Class: Affiliate

**Ryan Thody**  
Coughlin Porter Lundeen  
BSCE 2006, UW  
EIT, Washington  
Class: Associate

**Mark W. Vinson**  
Parsons Brinckerhoff  
BSCE 1997, U of WA  
Licensed PE, Washington  
Class: Professional Assoc.

**Barry Wenger**  
University of Washington  
BSCE 2006  
MSCE Dec. 2007  
Class: Student

**Melissa K. White**  
Swenson Say Faget  
BSCE 2001, MSCE 2003,  
U of Illinois Urbana-Champaign  
Washington EIT  
Class: Associate

**APPLICATIONS ACCEPTED**

- Julie Sandoz**, Associate
- Griffin Thornock**, Associate
- Suzanne Knudson**, Associate
- Douglas Prindle**, Professional Associate
- Lily Iftner**, Professional Associate

