



EQUILIBRIUM

Newsletter of the Seattle Chapter
Structural Engineers Association of Washington

January 2010

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In this issue

From the Board	2
Company Spotlight	3
Improving our Relevance	4
Bylaws Change proposal	4
News of Note, YMF	5
Opportunities	7
Calendar	7
Meetings, Seminars	7
Membership	8

**Coming
February 24th:
ACI Hosts our
Annual
Joint Meeting
with a program
on the Hoover
Dam Project**

Brightwater Wastewater Treatment System

Our first meeting of 2010 will feature a presentation by Jeremy Johnson of Jacobs Associates on the Brightwater Wastewater Treatment System.

King County planned the new treatment system to provide the increased capacity and infrastructure needed to support anticipated growth within King and Snohomish Counties. The new system will also bring important environmental benefits to the region, such as controlling untreated overflows into lakes and bays and recycling sewage into irrigation water. When completed in 2010-2011, Brightwater will connect about 335 miles of existing sewage pipes to a new treatment plant in Woodinville and a new outfall in Puget Sound.

The conveyance portion of the Brightwater project connects the new treatment plant to the new outfall and includes four large diameter

bored tunnels having a combined length of approximately 13 miles, and ranging in depth from 40 to 440 feet. Some of these tunnels are finished with multiple pipelines, while others are left open. The conveyance project also contains three smaller diameter microtunnel drives, three large diameter deep slurry wall shafts, an approximately 200-foot deep freeze wall shaft, and various related facilities.

Jeremy Johnson is an Associate with Jacobs Associates in their Seattle office. He has a BS in Geological Engineering from the University of Nevada, Reno, and an MS in Geotechnical Engineering from the University of California, Berkeley. Mr. Johnson started on the Brightwater Conveyance Project during the pre-design phase in 2003, was the Lead Tunnel Engineer for the East Contract portion of the project during the final design phase through 2006, and is currently serving as the lead for engineering support during construction of the East Contract.

Photos clockwise from top left: East Contract TBM in East Treatment Plant portal looking southwest; Speaker Jeremy Johnson; North Creek Portal Site; Roadheader excavating connecting tunnel.



Meeting Information:

Date: Tuesday January 26, 2010

Place: McCormick & Schmick's Harborside
1200 Westlake Ave N, Seattle

Time:	5:15—6:00 PM	Mini-Seminar (TBA)
	5:30—6:30 PM	Social
	6:30—7:45 PM	Dinner & Business Program
	7:45—9:00 PM	

Business: Appointment of Nominating Committee

Menu: Choose between
Breast of Chicken with Chipotle Cream
~or~
Farfalle Pasta Primavera

Price:	SEAW Members	\$30.00
	Non-Members	\$35.00
	Students (with current ID)	\$15.00
	Unemployed current members	\$15.00
	Late Registration, add	\$ 5.00

Reservation Deadline: Thursday, January 21, 2010

Register Online at www.seaw.org
or email seaw@seaw.org

Prepayment is Requested

No-shows and cancellations after the deadline will be subject to full charge.

FROM THE BOARD: Stay Connected

This October in Scottsdale I had the opportunity to attend my first NCSEA conference. At this annual event I was able to meet members from over 40 SEA Member Organizations across the country. During the three-day conference I was able to exchange ideas with other SEA's, gain a better perspective of NCSEA goals and strategy, attend the enlightening lectures, and network with vendor exhibitors.

One experience in particular continues to stand out in my mind. An awards banquet is held the last night of the conference where the incoming NCSEA officers and board are installed, winners of the Excellence in Structural Engineering Awards are recognized, and special individual awards are presented. After witnessing Ed Huston's receipt of his well deserved James Delahay Award I started talking to a conference attendee from Connecticut following the banquet. When I mentioned I was from Seattle the individual stated how much he liked Seattle. Assuming he had recently visited our beautiful city I commented that yes, we had some pretty nice weather this summer. He responded that he has never visited Seattle or been to the west coast. I looked at him some-

what quizzically and he replied that he was talking about how much he admired our SEA Chapter. He mentioned that our Chapter is involved in so many activities, such as being a major influence in Code development, publishing a Wind Commentary, rewriting an entire IBC Chapter, and establishing a SE Practice Act. He commented if he had to move anywhere, his first choice would be Seattle so he could connect with and become a part of such a proactive Chapter.

I have heard numerous other complimentary remarks about our Chapter, but the Connecticut member's comments really struck me and made me realize how fortunate I am to be part of a group that does so much for my profession and in turn for me as an individual. There are very few SEA chapters that offer their membership as many opportunities for networking, education, code development, and other committee work as Seattle's. Over the years I feel my participation in some of these Chapter activities has made me not only a better engineer, but has facilitated my connection with a group of close professional relationships.

With the unprecedented downturn of our economy the vitality of our Chapter is even more essential. I have found it very disturbing to see extremely qualified and talented engineers furloughed or laid off, with few if any near-term job prospects. For the really good engineers they have lost more than just a job; they have had their career and part of their identity put on hold. Many have made the best of their discouraging situation and advanced their career by using their extra time to prepare and pass their PE or SE exam. Those that are already licensed or don't have enough experience to take the exam can't even make this a positive out of their negative situation.

Our Chapter is one of the few ways these individuals can stay connected to their profession and careers.

Our Seattle Chapter Board is attempting to encourage those without employment to stay involved via our Chapter by offering student dinner rates for unemployed members, planning an affordable and relevant spring seminar, continuing support of our YMF, and encouraging employers to direct job opportunities towards Chapter members. Those members that are unable to afford dues are being encouraged to request a formal leave of absence and not just disappear.

It appears we might be at the bottom of this economic turmoil and with the start of this new decade see the beginning of some consistent and steady growth, albeit slower than we'd like. Regardless of your job situation, remember the Connecticut member who wished he had as many options as those in Seattle to enhance the connection to his profession.



Since this is my last "From the Board" article I need to add a personal note. One of our Seattle Chapter Associate Members, who has been a co-worker, renter, caucus participant, and close friend of mine, Christopher White, took with 160 others a series of tests and was one of four selected to attend the FBI Academy and become a Special Agent (and I thought the SE III Exam had a low passing rate!!). Chris, stay connected, and let's all be careful out there!!

Scott Douglas,
Seattle Chapter Past President
sdouglas@dc-engineers.com

January is Dues Invoicing Month!

Watch your email for your invoice!

INSTRUCTIONS FOR PAYING YOUR DUES ONLINE:

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 to see if there is an outstanding invoice.
5. Select the invoice and Follow the prompts to pay your dues online using your VISA or Mastercard.
6. When your payment has been made, you will receive an automated receipt by email.

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.

The SEAW Seattle Chapter *Equilibrium* is published monthly from September through May and is available online at www.seaw.org.

Articles, letters, and announcements are accepted by e-mail to seaw@seaw.org.

Advertising rates (prepaid)
Help Wanted/Job wanted, max 200 words, \$65; Display ads: Quarter page, \$115; Half Page, \$150; Full Page \$190. 10% discount for ads running two or more months. Deadline is the fourth Friday of the month. Contact SEAW for an advertising order form.

Except where noted, opinions expressed in this newsletter reflect those of the author and do not reflect or represent the position of SEAW. Portions of this newsletter may be reproduced provided credit is given.

Company Spotlight: Andersen Bjornstad Kane Jacobs

Andersen Bjornstad Kane Jacobs (ABKJ) is a civil and structural engineering firm in Seattle, Washington, founded by Arthur Andersen, Trygve Bjornstad, and Thomas Kane in 1956. The firm's early design work included local schools, Pacific Northwest Bell buildings, and most of the radio relay towers in Washington state.

In 1974, Andersen Bjornstad Kane merged with Huseby and Jacobs, a consulting engineering firm in Anchorage, Alaska and incorporated as Andersen Bjornstad Kane Jacobs. In 1976, The firm's Prudhoe Bay ARCO Operations Center received the Grand Award from the American Consulting Engineers Council for the top engineering project in the nation.

In the 1980s, ABKJ built its transportation department with the landmark West Seattle High Level Bridge project. The firm became a major player in the expanding Alaska market, designing the majority of the high-rise structures in Anchorage.

In 1990s, ABKJ merged with Arnold, Arnold & Associates to strengthen the ABKJ bridge and transportation department. The firm's West Seattle Swing Bridge project received Grand Awards for Engineering Excellence from the Consulting Engineers Council of Washington and the American Consulting Engineers Council and for the top engineering project in the nation.

Today, ABKJ continues to shape the look of the Pacific Northwest with several landmark structures, including the Lincoln Square mixed-use facility, the Good Samaritan Hospital expansion, the SeaTac Airport Central Terminal expansion, and the University of Washington William H. Foege Building and Surgery Pavilion projects.

Andersen Bjornstad Kane Jacobs Inc
800 Fifth Avenue, Suite 2500
Seattle, WA 98104
Phone (206) 340-2255
Fax (206) 340-2266
www.abkj.com

Cale Ash, SEAW Member since 2005, is our Company Spotlight Coordinator. If you would like to see your company in the spotlight, e-mail him at cash@degenkolb.com.

PROJECTS

Good Samaritan Hospital Expansion, Puyallup, Washington



Modeling with Revit and Civil 3D. This will be one of the first hospitals in Washington to meet the requirements of LEED Silver sustainable design certification.

This 340,000 square foot addition consists of three new buildings: a Patient Care Tower, a Parking Garage, and a Central Utility Plant. Upgrades include 80 new private patient rooms, a diagnostic imaging department, an emergency department, surgery and operating rooms, and a loading dock.

ABKJ is providing civil and structural design services on this project, utilizing Building Information

Mount Si Bridge Replacement King County, Washington

ABKJ led a team of engineers and environmental specialists to replace this steel Pratt bridge in the Mount Si Natural Resources Conservation Area. As the second-oldest bridge in King County, the structure had severely deteriorated over the years. ABKJ provided structural and roadway design services, public outreach assistance, and construction support services for the project.



The new Mount Si Bridge opened to traffic in April 2009, utilizing 406 tons of steel. The bridge is 240 feet long with an average width of 43 feet and was just named the Best Medium-Span Steel Bridge Design in the country for 2009 by the National Steel Bridge Alliance.

Riverpark Mixed-Use Complex, Redmond, Washington



This 6-acre, 787,000 sf project creates a new gateway to downtown Redmond with European-style street scenes. ABKJ provided structural design services for all 6 elements of this mixed-use development:

- 3 apartment buildings with 319 units
- 144-unit Hotel Sierra
- 112,000 square foot Group Health medical office building
- 207,000 square foot underground garage

The \$200 million complex includes waterways and an amphitheater-style plaza that overlooks a park for concerts and festivals.

-Photos provided by ABKJ

Improving Our Relevance

In the "From the Board" Article in the December, 2009 *Equilibrium*, Howard Burton quoted me as saying "I believe in SEAW, what it represents and what it does for our profession." Well, I do. I have been privileged to represent the Seattle Chapter as a Board Member and Officer, as a Trustee and Officer on the SEAW State Board, as a Delegate and Officer on the Puget Sound Engineering Council, as a Delegate and Officer on the Northwest Conference Council, as a Delegate and Officer on the Western Council of Structural Engineers and, most recently, as a Board Member and Officer on the NCSEA Board.

In this last position I was able to visit many of the other SEAs in the country and to meet and work with members of SEI, ASCE and other national engineering associations. In doing this I became even more aware of what a great organization SEAW is. We not only "work" on a local level, but have become an example to other organizations on a national level. For example, we don't have turf battles with other local engineering organizations such as

the local Section of ASCE because we **are** the Local Structural Group for the Seattle Section of ASCE. Sadly, this relationship exists in only two other ASCE Sections. Where this relationship doesn't exist there are often conflicts between the local organizations that sap their effectiveness. In meeting with other SEAs, I have pointed to the Seattle Chapter/Seattle Section model as an example of a model that works. As a second example, the Seattle Chapter has a cooperative arrangement with the Washington Association of Building Officials and has written several white papers with WABO. Several other SEAs have told me that they would like to find a way to establish a meaningful dialogue with their local building officials, and I point them to our website to look at what we have done.

We cannot however, "rest on our laurels." A couple of years ago, I was speaking with the President of the National Society of Professional Engineers and asked him "How large an organization is NSPE?" His reply was that "We are 45,000, striving to get back to

150,000." I was startled. Clearly, as professional societies, we must remain relevant. Even though SEAW is the second largest SEA and the second or third oldest SEA, we need to work towards self improvement. The Seattle Chapter has been working in that direction over the last several years and the establishment of the Younger Members' Forum is a terrific example of that effort. While the membership of the Seattle Chapter has not declined, we still, by some estimates, represent less than half of the engineers in Western Washington, north of Tacoma, who are designing structures. By other estimates a half is too high, we may well represent less than a third. So our question for ourselves as we approach our 60th Anniversary might be, "How do we become increasingly relevant to engineers designing structures?"

In my opinion, one part of the answer to this question is to increase our appeal to engineers designing structures. Certainly we do this through our committees, publications and seminars. But I believe there is more that we can do.

Some of the most experienced and active members of the Seattle Chapter are not SEs. They belong to SEAW, but by our bylaws they are a type of second-class citizen. They cannot vote or hold office. There may be many different and varied reasons that these individuals have not taken the path of SE licensure. They may be in large organizations where they will never seal a set of plans and so don't see the need to become SEs. They may have moved to Washington late in their career and the thought of sitting for the SE license at this late date is daunting to them. There are probably many other valid reasons that I have not even begun to consider.

The Seattle Chapter is one of the very few SEAs that has this restriction. Most SEAs exist in states where there is no prac-



tice or title act. The title "Structural Engineer" is not even recognized or restricted. In those states, any Professional Engineer can be an officer of the association. Even in states that have SE practice or title acts, many organizations, such as chapters of SEAOC, allow PE members to vote and serve as Directors. Within SEAW we have other chapters that allow this as well.

In the State of Washington, our PE members can design structures up to five stories, or 100 feet in height. A structural engineering license is only required for a small fraction of the structures that are in the built environment. If we want to increase our appeal to engineers designing structures, I think we should engage more of them with a voting membership in the organization and give them the chance to serve on the Board. We will then be able to have a more diverse Board of Directors, who will represent more clearly the range of engineers who are designing structures within our boundaries.

I do believe in the Seattle Chapter and have been privileged to represent you for much of my career. I believe that we have a great organization. I also believe that we can make it even better. Let's work together to strengthen the Seattle Chapter and take it to the next level. I strongly urge your support of the upcoming bylaws change.

By Ed Huston, PE, SE
huston@smithhustoninc.com
Phone 206-448-8448

Proposed Bylaws Revisions

On January 7th, ballots will be mailed to Seattle Chapter MEMBERS for their vote on the following recommended changes to the Chapter Bylaws:

Delete old Section II(1) and replace with new Section II(1) **allowing both SE and PE members the right to vote on Chapter business**, and New Section II(2) **referencing the State bylaws for rules on state business**.

Revisions to Sections VI(2) and VI(3) **allowing PE members to serve on the nomination committee**.

New Section IX(5) **clarifying that Article II defines members voting rights**.

Revised Sections IX(6) and IX(7) **allowing PE members to vote**.

Completely Revised Article X **allowing voting at a business meeting or by mail, email or electronically, with language regarding 14 days notice**.

Text of the proposed changes will accompany the ballot, and can also be reviewed online at http://www.seaw.org/documents/SE_Bylaws_2009.pdf

News of Note

SEAW Posts White Papers

Two new White Papers have been posted to the Resources area (http://www.seaw.org/resources_white_papers.cfm) of the SEAW website:

White Paper 1-2009, "**Special Reinforced Concrete Shear Walls as Building Frame Systems for Mid- and High-Rise Buildings**," was developed by a special taskforce of the SEAW Earthquake Engineering Committee.

The intent of the paper is to recommend design and performance criteria for designating seismic force-resisting systems consisting of special reinforced concrete shear walls (SRCSW) as building frame systems for mid- and high-rise buildings per the provisions of ASCE 7-05 Section 12.2.

White paper 1-2009 can be accessed directly at: http://seaw.associationsonline.com/documents/SEAW-EEC_White_Paper_1-2009.pdf

White Paper 2-2009, "**Study of Structural Failures Associated with the Winter 2008-2009 Snow Event in the Spokane/Coeur d'Alene Area**" was developed by an ad hoc committee of the SEAW Spokane Chapter.

The committee was formed to study the structural failures resulting from the extreme weather event the Inland Northwest experienced during the December 2008-January 2009 period. Record snowfalls were recorded in the region during this period. The committee prepared a report to

discuss the structural failures resulting from this weather event, and determine how future occurrences might be prevented. Furthermore, the report summarizes actual snow loads based on available recorded data and makes recommendations concerning the appropriateness of the current design roof snow loads required for building design. The hope of the ad hoc committee is that the information in this report will be useful not only to architects and engineers, but also to building owners and building officials.

White Paper 2-2009 can be accessed directly at: http://seaw.associationsonline.com/documents/SEAW_Spokane_Snow_White_Paper_12-09.pdf

Future City Competition Seeks Judges

The Future City competition is seeking engineers willing to serve as judges at its Washington State competition in January.

IEEE (Institute of Electrical and Electronic Engineers) sponsors the local Future City competition as part of Engineers' week. It is open to teams of middle school students (7th and 8th grade). The winning team from this year's event will win an expenses-paid trip to Washington, DC to participate in the national competition. There are four aspects to the competition. This is designed to promote teamwork, increase awareness of the need for infrastructure in cities, expand the definition of success beyond "just getting the right answer", and expose students to engineering-

(Continued on page 6)

YMF Corner

Habitat for Humanity Build Day

By Dan Yeager

The YMF received an overwhelming response from volunteers willing to help with the December 5th build day. The response was so great from YMF that we have decided to make Habitat for Humanity build day a semi-annual event. We will be asking for volunteers again in the spring of 2010.

If you do not know what Habitat for Humanity is: Habitat for Humanity was founded in 1976 and has become a worldwide foundation that provides safe affordable housing to those who could not otherwise afford housing. Families purchase their homes through low no interest payments as well as contributing 500 hours of service towards their own and neighbors' homes, thus building a strong community. For more information on Habitat for Humanity please go to www.habitat.org.

Habitat for Humanity has multiple sites around the Seattle area, many of which YMF may have the oppor-

tunity to work at depending upon scheduling. This build day YMF volunteered at the Rainier Vista Phase 1 site. Rainier Vista, located in South Seattle, is split into 4 phases that will be built over the next couple of years. Work for the day consisted of putting on the final touches before a letter of occupancy was to be granted by the city. This included moving and spreading some 20 yards of topsoil over the entire site as well as planting over 200 plants.

Mike Knapp, supervisor for Habitat, was extremely happy with the great work ethic shown that allowed us to finish all the tasks set forth for the day. I would like to extend a large thank you to all of the volunteers (Amanda Johnson, Josh Brown, Jerry Lee, Robyn Yang, Matt Toton, Scott Douglas, Justin Bettner, Erik Evenson, Matt Hopper, Katrina Reed, Matt Godsey, Krzysztof Zaleski, Rylan Knuttgen, and Ben Klingenstein) for their great work ethic and positive attitude all day.

Created in 2007, the Younger Member Forum provides networking and social opportunities to SEAW members 35 and under, as well as new non-member engineers and students. All SEAW members are welcome to participate in YMF functions.

Upcoming YMF Happy Hours

Tuesday January 12, 5 PM

Thoa's
96 Union Street, Seattle

Wednesday January 20, 5 PM

Daniel's Broiler
10500 NE 8th Street, Bellevue

Thursday February 2, 5 PM

Black Bottle
2600 First Avenue, Seattle

See You There!

YMF Leadership

President

Jessica Jenness
jessicajenness@hotmail.com

Vice President

Dan Yeager
dyeager@dci-engineers.com

Outreach Representative:

Robyn Yang
ryang@dci-engineers.com

Social Representative:

Jerry Lee
jerryjlee@gmail.com

News of Note

(Continued from page 5)

oriented career possibilities. All this, plus the competition itself is a challenging and rewarding experience for the students!

Each team simulates their city using SimCity 3000 software, and runs the simulation for a specified interval. Criteria for judging include city layout, energy, transportation, and recreation. (0-80 points)

Each team builds a physical model of their futuristic city (or a portion of it). (0-120 points)

Each team writes a narrative about their city detailing a futuristic concept which is part of its design, and an essay on a given topic. This year's topic is "Providing an affordable green living space for people who have lost their home due to a disaster or financial emergency." (0-90 points)

Each team makes an oral presentation about their city. (0-90 points)

Judges are needed for two areas: abstracts and essays, and physical models and oral presentations. Following is a brief description of each:

City Narratives and essays:

These are due from the students on Monday, January 11th, and will be available on the website for download shortly afterward.

Expectations: Read and review 8-10 essays (700-1000 word research essay) and City Narratives (300-500 words describing the city's design features and key attributes), and score them using the rubric provided. Scores are based on such aspects as how fully the engineering feasibility plan is described, how well-organized and well-written it is, and whether it is a creative solution.

Time commitment: Several hours (flexible, between about January 12 and 21). Location: Flexible.

Physical models: These are presented on the day of the actual competition, which is Saturday, January 23.

Expectations: View and judge teams' physical representations of their cities using the rubric provided. Interact with student teams in a positive, encouraging manner. Criteria include creativity, accuracy and scale, infrastructure, moving part, attractiveness, and use of recycled materials.

Time commitment: Several hours between 7:30 a.m. and early afternoon on Saturday, January 23. Location: The competition site is Seattle Center.

Oral presentations: Also presented on the day of the competition (January 23).

Expectations: View and judge teams' oral presentations about their cities using the rubric provided. Interact with student teams in a positive, encouraging manner. Criteria include delivery/presentation, knowledge, and cooperation.

Time commitment: Several hours between 7:30 a.m. and early afternoon on Saturday, January 23.

Location: Seattle Center.

Judging teams (for both physical models and presentations) will be assigned on competition day. If for some reason, January 23rd presents a conflict for your schedule, then signing up to judge essays and abstracts might be a good fit. Having participated for the past few years, I can heartily recommend this both as a fun activity and as a great way to promote interest in engineering among young people. It has been very impressive to watch some of these young folks and see the outcome of their labor! The Future City website is ever-improving and informative. Check it out:

<http://www.washingtonfuturecity.org/schedule.html>

To participate, contact me, Jeanne Harshbarger, at System Protection Engineering jeanne.harshbarger@pse.com Phone 425.456.2333

Participate in SEAW Sustainability Committee's Online Survey

SEAW Members:

As part of the development of the new Sustainability Committee of SEAW, we'd like to know more about your interests and needs in this area. Please take the short survey, linked below, so that we may better understand your needs and focus our resources to be most useful to the members of SEAW. The survey should take no more than five minutes. **Please respond by January 15, 2010.**

<http://www.surveymonkey.com/s/MDWT5SD>

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Meetings, Seminars, Announcements

Masonry Design Webinar

The popular Structural Masonry Design Seminar developed by the Northwest Concrete Masonry Association will be presented as a webinar. The full seven-hour seminar will be presented over three sessions on Jan. 20, 25 and 27 from 4 - 6:30 pm **Pacific Time.**

The webinar will focus on the requirements of 2006 IBC Chapter 21 and the referenced material standard 2005 ACI 530/TMS 402/ASCE 5. Both working

stress and strength design of reinforced masonry will be covered. Learn how to use and interpret the building code through masonry building element design examples.

Please plan to participate and save time and travel costs. Webinar participants can earn continuing education credit. You can register on-line at www.nwcm.org, or by calling the NWCMA office at 425.697.5298

Opportunities

Licensed SE

10+ years experience. Forensic engineering experience is a plus.

Ideal candidate possesses extensive knowledge of wood frame and concrete structures with experience in design and failure/damage analysis, condition assessments, building codes, construction best practice and design for commercial and residential buildings.

The candidate must be willing and able to roll up sleeves to perform hands-on investigations. Approximately half the time is spent on field investigations with the majority of the balance in the office writing reports & performing project coordination. Clients primarily include insurance companies, attorneys, property owners and property managers.

Arbitration and/or expert witness experience is a plus. Candidate must be willing to work in a dynamic and fast paced environment. Candidate must be able to coordinate and/or work with multiple other employees in a variety of technical fields.

Candidate must be a self starter with ability to market services to potential clients. Previous business development experience is a plus.

Candidate must have excellent customer service, communication and project management skills. Candidate must be able to accurately and efficiently communicate findings verbally and by written report.

Candidate must be able to work effectively with the insurance and legal communities. Some travel required, primarily within the state hired and occasionally throughout the US as needed.

Full benefits package including 401K/pension.

Submit resume to wwolfert@case4n6.com

Bridge Engineers

INCA Engineers, a Tetra Tech Company, is a professional consulting firm located in downtown Bellevue that provides high-end structural, mechanical, electrical, civil, transportation, and traffic engineering, as well as surveying and mapping throughout the United States. INCA works on unique and challenging projects that include:

risk and reliability based assessment of bridges instead of common load factor rating

design of a track bridge over an expansion joint on a floating bridge – first in the world

(Continued on page 8)

Mark Your Calendar!

2010 Western Council SEA Roundup Telus Whistler Conference Centre Whistler, BC October 21–23, 2010

Preliminary Program:

Thursday October 21, 2010

10:00 AM - 12 PM - NWCSEA Council Meeting

1.45 - 4.45 PM - WCSEA Council Meeting

4.45 - 6.30 PM - Exhibitor Event

7.00 PM - 12.00 AM - Social Event

Friday October 22, 2010

9.00 AM - 4.45 PM - Annual Conference
(Structural Engineering Sessions)

6.30 PM - 12.00 AM - President's Awards Gala

Saturday October 23, 2010

Social Activities

Notes: The highway between Vancouver and Whistler has been recently upgraded as part of the 2010 Olympic Games Transportation plan, making travel to-and-from Whistler safer and more convenient than previously. Passports are required for visitors from the US traveling to Canada.

Calendar

JANUARY, 2010

Tuesday 12

MEMBERSHIP DUES INVOICED

YMF Happy Hour 5:00 PM
Tho's, Seattle

Wednesday 20

YMF Happy Hour 5:00 PM
Daniel's Broiler, Bellevue

Tuesday 26

Seattle Chapter Dinner Meeting
McCormick & Schmick's

Friday 29

SEAW State Board of Trustees meets

FEBRUARY, 2010

Tuesday 2

YMF Happy Hour 5:00 PM
Black Bottle, Seattle

14th–20th

Engineers Week
PSEC Engineers Fair
PSEC Awards Banquet

Wednesday 24

Dinner Meeting
ACI hosts Joint Dinner Meeting at
McCormick & Schmick's

MARCH, 2010

Tuesday 9

YMF Happy Hour 5:00 PM
Triple Door, Seattle

Wednesday 17

YMF Happy Hour 5:00 PM
Vertigo, Bellevue

Tuesday 23

Seattle Chapter Dinner Meeting
We host ASCE

Watch the SEAW website for Calendar updates!



STRUCTURAL ENGINEERS ASSOCIATION of WASHINGTON • Seattle Chapter

PO Box 44 • Olympia WA 98507 • 206/682-6026 • www.seaw.org

Seattle Chapter Committees & Chairs

House/Program	Andrew McGlenn
Refresher Course	C. Chevy Chase
Membership	Cheryl Burwell
Newsletter	Lynnell Brunswig
Presentations/Awards	Peter Opsahl
Engineer of the Year	Ed Huston

Statewide Committees & Chairs

Code Advisory	John Hooper	Wind Engineering	Don Scott	Finance & Auditing	Ted Smith
Earthquake Engineering	Tom Xia	Exam Liaison	Ed Huston	Disaster Prep/Response	Paul Brallier
Building Engineering	Open	Scholarship	Bill Mooseker	Public Information	Cale Ash
Existing Buildings	Peter Somers	Legislation	Matt Toton	Sustainability	Marjorie Lund
Professional Practices	John Tawresey	Education	Joe Ferzli		

Opportunities, cont'd

(Continued from page 7)

analysis and design of aerial structures for rail-structure interaction to account for thermal effects and vehicle-structure interaction to account for dynamic effects

INCA offers competitive salary, opportunities for long-term career growth, diverse and interesting project work, and excellent benefits. We are looking for talented candidates to join our team!

INCA has immediate openings for 2 bridge engineers at our Seattle project office:

Mid-level bridge engineer, minimum 5 years experience in the analysis, design, and detailing of concrete and structural steel bridges and related structures. BSCE and P.E. required.

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