



EQUILIBRIUM

Newsletter of the Seattle Chapter
Structural Engineers Association of Washington

April 2011

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**Pre-Program
Mini-Seminar
April 26th**

**SEAW/WABO
White Paper #5**

See page 2 for details

2011 Christchurch Earthquake

The M6.3 Christchurch Earthquake struck the Canterbury region in New Zealand's South Island at 12:51 pm on February 22, 2011 (local time). Technically an aftershock of the M7.1 Darfield Earthquake that struck the region on September 4, 2010, the February 22nd earthquake was shallower and closer to downtown Christchurch, resulting in much greater damage than the foreshock. Two SEAW Members, David Swanson from Reid Middleton, Inc. and Cale Ash from Degenkolb Engineers travelled to Christchurch to assist the Christchurch City Council with Post-Earthquake Safety Evaluations and to perform earthquake reconnaissance.

The Canterbury Earthquake significantly impacted the Canterbury region and especially the City of Christchurch Central Business District (CBD) where widespread liquefaction occurred and a significant number of buildings collapsed, including many historic buildings. Christchurch is New Zealand's second largest city with a population of about 400,000. This damaging earthquake provided structural engineers the rare opportunity to study the earthquake performance of seismically stabilized buildings and buildings with recent seismic upgrades installed. This dinner meeting program will provide an overview of the earthquake damage observations by David and Cale.

Speakers

David Swanson, P.E., S.E., is a Principal and serves as the Director of Structural Engineering for Reid Middleton, Inc. Dave has organized and led SEAW Earthquake Reconnaissance Teams to earthquakes in Japan, Taiwan, China and Chile. Last year Dave led a University of Washington NSF-sponsored research team to Haiti to investigate the earthquake performance of concrete

(Continued on page 2)



Photo courtesy of Cale Ash

Meeting Information:

This presentation is valued at 1.5 PDH

Date: Tuesday, April 26, 2011

Place: Best Western Executive Inn
200 Taylor Ave N, Seattle

Time: 5:00–6:00 PM Social Hour
6:00–6:30 PM Dinner
6:15–6:40 PM Free Mini-Seminar
6:40–6:45 PM Welcome/Introductions
6:45–8:15 PM Program

Menu: Entree Choices: Pan Seared Steak Sukiyaki or Mediterranean Pasta

Price: SEAW Members \$30.00
Non-members \$35.00
Students* \$15.00
Registration after 4/20, add \$5.00

*unemployed current members may register at the student rate

Reservations Required

Reservation deadline is 5 PM Wednesday, April 20.

Register Online at www.seaw.org

Prepayment is Requested

Credit Cards accepted online only; not at the door.

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

From the Board:

It's finally spring. This time of year change is in the air. The flowers are blooming, the birds are singing and we're getting more sun. (OK, maybe the last one is a stretch).

The last year has had a lot of changes for me. As I've been thinking back about the past year of my career I've been thinking about change, in particular, the evolution that an engineer goes through during the course of his or her career.

As engineers we all are most comfortable with stability—both in buildings and our careers. But even though there is a lot of comfort in stability, there is a lot of growth in change too. And we all do it, throughout our careers.

I hate to admit it but when I first graduated college years ago, I had no idea what a structural engineer actually did. I remember in the interview for my first job someone asked me if I knew what a "bar joist" was— I didn't. Amazingly, they still gave me a job and I quickly learned exactly what a bar joist was.

The first few years of engineering are a lot about what you learn in school—how to crunch the numbers. But the other,

equally important part of those formative years is figuring out all that stuff they don't teach you in school—construction terminology, how to read drawings, and how to produce them: the things you need to know to actually build something. That can be very challenging those first few years.

Then, when you get comfortable with the basics, you inevitably delve into the issues more. Why was the code written that way? What is the bigger issue? Do I agree with it?

Before too long you transition from the nuts and bolts of calculations and code into figuring out the bigger picture—laying out the framing of buildings, selecting the structural system, interacting with architects and managing the structural aspects of a project's design.

And then, further on, you likely move on to an even broader role: perhaps how to get the work in the first place, managing other engineers, or how to run a business.

One of the many changes I had in the past year was becoming a new board member of SEAW. It's been eye opening to see the level of effort that is put into making this organization function. I've realized too that the

board has been busy the last few years! They've made a lot of changes! I think, for the better.

One of the big benefits I've seen from the changes they've made the last few years is an increase in the ability for SEAW to serve each engineer throughout every stage of their career.

For the early years, there is the YMF. What a great place to connect with other people who are struggling to figure out exactly what a structural engineer does? It's a great place to ask the questions you are perhaps a bit shy to ask at work (ie: what's a bar joist?).

For the intermediate years, there are the committees, who welcome younger members and are a great resource to those who want to delve further into a particular structural engineering issue. There also are the seminars, and refresher course, which give practical information in a format that a working, learning engineer can use.

And for those later in their career I think the biggest benefit of all is the ability to have an outlet to socialize with other business owners,



to discuss design issues, liability concerns and perhaps get some answers to some not-so-clear questions.

The latter is one of main reasons I am involved in SEAW. I am committed to keeping SEAW a great resource to engineers in all stages of their careers, and an excellent place to connect across the generations.

Lara Simmons is a structural engineer in KPFF's Civil/Structural Department. She is currently putting her previous experience designing buildings to use on transportation projects such as the Mercer West Project with the Seattle Department of Transportation and Northlink with Sound Transit.

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 20th of the month. Contact SEAW for an advertising order form.

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April 26th Dinner Meeting Program

(Continued from page 1)

buildings. A contributor to the Seattle Fault Earthquake Scenario, a big part of Dave's design practice focuses on seismic safety of public infrastructure and essential facilities. Dave is a past SEAW scholarship recipient, a past Director of SEAW, past chair of the SEAW Disaster Response Committee, and was honored as the SEAW Engineer of the Year in 2003. Dave received his BSCE and MSCE degrees from the University of Washington.

Cale Ash, P.E., S.E., is a Project Engineer with Degenkolb Engineers in Seattle. He received his BCSE and MSCE degrees from

the University of Illinois where, as part of the Mid-America Earthquake Center, he participated in an earthquake reconnaissance field mission to Taiwan. His work at Degenkolb focuses on the seismic evaluation and rehabilitation of existing buildings. He is currently the Vice President of the Cascadia Region Earthquake Workgroup and chair of their Education & Outreach Committee. Cale is chair of the SEAW Public Information Committee, served as YMF chair, and was honored as the Seattle Chapter Young Engineer of the Year in 2010.

This presentation will be valued at 1.5 PDH.

April 26 Mini-Seminar

Mark D'Amato and Jon Siu will be on hand at the April 26th dinner meeting to introduce the WABO/SEAW White Paper #5.

The paper provides guidelines for both the engineering community and building officials on how to treat post-disaster safety evaluation of buildings by private engineering firms.

The presentation will take place during the dinner portion of the meeting.

Company Spotlight: Integrus Architecture

Founded in 1953, Integrus Architecture comprises a diverse and dedicated group of architects, structural engineers, interior designers, and business professionals who excel in the delivery of professional services to higher education, K-12, civic, justice, and commercial clients throughout the world. At Integrus we are committed to client service, long-term relationships, promotion of environmental stewardship, and innovation and excellence in our design. Integrus employs a staff of 85 with two regional offices located in Seattle and Spokane.

Integrus' structural engineers are talented and driven professionals who help clients create buildings that embrace modern and enduring standards of economic, ecological, and social excellence, while working diligently to extend the economic life of a building through comprehensive, state-of-the-art structural designs. By collaborating with the entire design team early in the process—by, in effect, sharing in ownership of the project—we provide the support needed, striving for an integrated solution that meets the needs of all involved. We provide an array of structural design services—ideas and insights, design and technical knowledge, drawings and specifications, administration, coordination, and informed decision-making—that transform an extraordinary range of critical factors into coherent and appropriate solutions to each organization's unique needs. Structural engineering has been a part of Integrus Architecture for over 30 years.

Integrus SEAW Members include:
John D. Cuddy, PE, SE, LEED AP
(past chapter president)
Tom Corcoran, PE, SE
Robert Graper, PE, SE
(past chapter and state president)
Nathalie Boeholt, PE, SE
Tim Graybeal, PE

Integrus Architecture
www.integrusarch.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

Rachel Carson Elementary School, Sammamish, Washington



Photos courtesy Integrus Architecture

This 55,600 square foot, two-story elementary school is designed to accommodate 450 students, with an additional 100 in a future expansion. The school contains four learning clusters housing 16 learning settings; Kindergarten rooms; Specialized Instructional rooms, and major school resources. The entire facility embraces sustainable design and operational practices. Structural systems consist of metal deck roof over steel bar joists, composite framing systems, and concrete metal deck supported by steel wide flange beams. The single-story wing is designed to accommodate a future second floor, including a radiant-floor heating system; reverse barrel tube framed trusses gracefully span the entry lobby and commons.

United States Embassy Compound Sarajevo, Bosnia & Herzegovina

A new embassy compound includes many features of a modern office building with the added unique requirements of security, blast protection and division of restricted areas from public service areas. Access to the compound is controlled at the Compound Access Control Facilities. The Sarajevo compound includes a new office building, marine security guard quarters, consolidated support annex/warehouse, compound recreational facility, and utility building. Structural design included provisions for non-structural seismic restraints, anti-ram, ballistic, forced entry, and blast forces, in addition to dead and live loads.



WSU College of Nursing Building, Spokane, Washington

The Nursing Building, located on the Spokane Campus of Washington State University, is a new 85,655 square foot facility designed to support the growing needs of the nursing program at WSU and health sciences throughout the region. The building organizational strategy reflects the school's culture of student/faculty interaction. Their relationship-based culture of learning led to a building organization that places faculty offices in "cul-de-sacs" adjacent to student learning and research zones. These highly flexible areas on each floor integrate structural modules, mechanical systems and technology infrastructure to accommodate research laboratories, clinical performance labs (phlebotomy, tissue cultures), media support labs, practice labs, and simulation labs.

News of Note

-by Don Northey

The Puget Sound Engineering Council Awards Banquet was held at the Museum of Flight February 26, 2011, from 6:00 pm to 10:00 pm. The banquet provides an opportunity to celebrate the engineering profession and recognize the achievements of members of the profession who have excelled. The general atmosphere was festive, the food was good, and service was prompt and well executed.

Master of Ceremonies Sam Gheesling welcomed those in attendance with a reading of President Herbert Hoover's eloquent description of the profession of engineering:

"Engineering. It is a great profession. There is the fascination of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings jobs and homes to men. Then it elevates the standard of living and adds to the comforts of life. That is the engineer's high privilege.

The great liability of the engineer compared to those of other professions is that his works are out in the open where all can see them. His acts, step by step, are in hard substance. He cannot bury his mistakes in the grave. He cannot argue them into thin air. He cannot cover his failures with trees and vines. He cannot, like the politicians, screen his shortcomings by blaming his opponents and hope the people will forget. The engineer simply cannot deny that he did it. If his works do not work, he is damned...

....Unlike the doctor his is not a life among the weak. Unlike the soldier, destruction is not his purpose. Unlike the lawyer, quarrels are not his daily bread. To the engineer falls the job of clothing the bare bones of science with life, comfort, and hope.

No doubt as years go by the people forget which engineer

did it, even if they ever knew. Or some politician puts his name on it. Or they credit it to some promoter who used other people's money..

But the engineer himself looks back at the unending stream of goodness which flows from his successes with satisfactions that few professions may know. And the verdict of his fellow professionals is all the accolade he wants."

Past-Presidents of PSEC and past award recipients were recognized.

Keynote speaker James Ogonowski, Senior Chief Engineer of Airplane Structures for the Boeing Company, delivered the keynote address describing the development of composite materials from ancient times to the present, some of the advantages, problems and solutions in using composites, and some of the very complicated mechanical devices used in handling very large, heavy components in the manufacturing process.

President-Elect Kim Hicks presented the award portion of the program. Five excellent representatives of our profession were honored with Engineer-of-the-Year awards:

Academic Engineer-of-the-Year: Dr. Stephen Burges, PhD, PE

Government Engineer-of-the-Year: Michael Mucha, PE

Industry Engineer-of-the-Year: Tamaira Ross

Young Engineer-of-the-Year: Danielle Vardaro

Professional Engineer-of-the-Year: John Tawresey, PE, SE

They each received excellent introductions describing the nature of the achievements that lead to their selection for the award. Each responded with thought provoking reflections upon his or her career as an engineer. It was indeed a celebration of the engineering profession and made one proud to be an engineer.

Tawresey Awarded Professional Engineer of the Year

At the February 16th Puget Sound Engineers Council's annual Awards Banquet, SEAW member John Tawresey received the Professional Engineer of the Year award. His nomination was submitted by ASCE.



Tawresey is Vice President with KPFF Consulting Engineers. His 42 years of experience includes working for The Boeing Company, Commercial Airplane Division, and KPFF Consulting Engineers. He was KPFF Chief Financial Officer for 27 years. He has been teaching structural masonry [CESM 486] at the UW for the past 26 years.

John graduated first in his class from Cornell University, obtained an MS in Applied Mechanics also from Cornell, and an MBA from the UW.

John's career started in aerospace working on the Boeing SST and after its cancellation joined the stress research group. In 1973 he joined KPFF where he concentrated on aluminum exterior walls and structural masonry systems. He

has designed hundreds of building walls in many locations. Seattle projects include the Seattle Art Museum, the Starbucks Building, Washington Mutual Tower, and the First Interstate Center. He is currently working on the City Creek project in Salt

Lake City and is designing an overclad for Queen's Medical Center in Honolulu.

John was instrumental in the formation of The Masonry Society, participated in many capacities on the Structural Engineers Risk Management Council, is a Past President of the Structural Engineering Institute of ASCE and has been on many ASCE committees including the Audit Committee. He is a Bainbridge Island School Board member.

Two of John's three children are engineers and the third is married to one. John's wife Alice is the former Mayor of Winslow and former Washington State Transportation Commissioner. When John is not working, you can find him modifying terrain with his John Deere 510B backhoe.

Cap Pearson Retirement

**Before Neil Armstrong walked on the moon,
Charles "Cap" Pearson walked into the City-County building
... and never left.**

Till now.

**After 42 years and 13 editions of the building code,
we invite you join us in celebrating
Cap Pearson's retirement from the City of Tacoma**

**April 29th from 2 to 4 pm
Tacoma Municipal Building, 747 Market Street, Room 708**

Questions? Please call (253) 591-5334

Meeting Recap

March 22, 2011 Meeting:
The Pomegranate Center
-by Charlene Hails

The Pomegranate Center is an initiative begun by Milenko Matanovic in 1989 to bring communities together through collaboration in mutually beneficial projects. Matanovic is an artist who was inspired by the city of his youth, Ljubljana, Slovenia, which he described as a "sustainable city" before the term existed. He extolled the farmers' market that occupied 20 acres in the city's core, and acted as a gathering place for the community year-round.

Pomegranate Center works with people in United States and Canada to create beautiful and functional "in-between" spaces that unite communities through the active participation of the local people.

An example of a Pomegranate Center project is one that was recently completed in Walla Walla. Part of a neighbour-

hood park was being used for drug trafficking. The community approached Pomegranate Center seeking to rid the area of this criminal activity. Pomegranate Center hosted a community meeting to learn if there was anything the people might actually like to have in their community. By applying "industrial strength listening," the meeting identified three objectives of the people: a promenade, a dance floor, and lots of color!

The design for the promenade was inspired by hop poles used on nearby farms. These poles were sanded and carved by volunteers, and erected on either side of walkways, dance floors, and picnic areas. A permeable two-level shade was installed between them, and hand-painted banners hung to decorate them. The dance floor was completed with a decorative concrete slab, an element that combined beauty and functionality. Pomegranate Center seeks to integrate

art into the practical elements of design, avoiding at all times "art turds" that serve no function. From start to finish, the project took nine months to complete. The construction was completed in just 10 days, with 1,700 hours of sweat equity donated by members of the community in which the park is located. Crime has significantly dropped since the park was completed, as members of the community now feel an ownership and pride in their creation, crowding out the unwelcome elements that used to fester there.

Matanovic credits the involvement of those who might otherwise put up obstacles with the success of these projects. If the person who is in charge of issuing permits is on the project team, then delays are much less likely. Professionals who donate design, construction, or planning services are known as "Public Space Rangers"; SEAW's own Peter Opsahl is one of these.

Matanovic's presentation was entitled "Building a Community and All That Jazz," comparing the work of Pomegranate Center to improvisational jazz music performance, which is spontaneous and joyful, and allows individuals to perform exciting solos with the support of the ensemble. The pomegranate is a symbol of hope and fruitfulness, as there are many seeds in one fruit.

Pomegranate Center has partnered with Tully's Coffee to complete three projects in 2011 in the greater Seattle area. They are inviting proposals which are due on April 15. Please see www.pomegranate.org for more information. Promoting the bonhomie of the evening, the bar was hosted by Kibble & Prentice.

Charlene Hails has been a member of SEAW since 2001. She may be contacted at cfh@mrpengineering.com.

YMF Corner

YMF Elections

Over the next few weeks I will be taking self-nominations for the YMF Leadership Position Elections.

I encourage all younger members (35 & under) to think about volunteering for a position. It's a great way to find out what SEAW does.

Positions available include President, Vice President, Outreach Representative, and Social Representative. The responsibilities of these positions change with the development of this forum but the typical activities for each are as follows.

The **YMF President** develops and leads YMF activities, serves as a liaison between the YMF and the SEAW Board of Directors by attending monthly board meetings, coordinates and leads two YMF leadership planning sessions per year, maintains the YMF email list,

sends announcements to the YMF, and contributes to the YMF Corner in SEAW's monthly newsletter.

The **Vice-President** assists with President activities, coordinates a service project for the fall and spring, prepares minutes of YMF meetings, and maintains the YMF calendar.

The **Outreach Representative** develops programs to encourage young engineers to join and participate in SEAW, serves as university liaison, encourages involvement in SEAW, plans and coordinates Outreach Luncheons in the spring, and serves on SEAW's Membership Committee.

The **Social Representative** develops programs to encourage sustained involvement in SEAW among young members primarily by planning and attending monthly happy hours, assists President in maintaining email list, and serves as treasurer.

Self-nominations are now being accepted and will continue through May 5th. Ballots will go out for voting to YMF members on May 6th. Voting ends on May 20th and election results will be announced at SEAW's Spring Social and Wine Event on May 24th.

If you'd like to run for a position please send an email including your name, email ad-

dress, current company, alma mater, the position you'd like to run for, and a brief statement explaining why you want to hold this position (this statement may include a brief bio if you'd like) to:

Dan Yeager
dyeager@dc-engineers.com,
current SEAW YMF President

Upcoming YMF Events

April 13 **Happy Hour, 5:00 PM**
Barolo, 1940 Westlake, Seattle

May 10 **Happy Hour, 5:00 PM**
Whiskey Bar 2000 2nd Ave, Seattle

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.

Meetings, Seminars

Seattle Revit Structure User Group

The next Seattle Revit Structure User Group meeting will be **Thursday, April 21, at 12 pm**. This month's topic will be **ABC: APPLYING BIM IN CONSTRUCTION**.

We'll be doing something unique this month—GLY Construction will be hosting a site visit at the new Amazon.com Phase V Block 35 project. At the site office, they will discuss their experiences using BIM onsite as tool for both the physical construction and the CA process. Afterwards, they will take us on a tour of the project itself.

If you've always wanted to observe firsthand a model of downstream BIM applications, here is your chance! No Revit experience required. Users of all levels are welcome.

What: Seattle Revit Structure User Group

When: Thursday, April 21, 2011, from 12 pm – 1 pm.

Where: Amazon.com Phase V Block 35 222 Fairview Ave. N. Seattle, WA 98109

Special thanks to GLY Construction and Kyle Applebury at CPL and for organizing and hosting.

RSVP kindly requested. Attendance limited to 15.

To RSVP or for questions, please contact Irina Wong at iwong@degenkolb.com. Hope to see you there!

Structural Masonry Design Seminar

**Tuesday, May 24, 2011
8:00 AM – 5:00 PM**

Presented by Northwest Concrete Masonry Association

Learn how to design masonry structures in accordance with the 2009 International Building Code and 2008 MSJC Masonry Code. This one-day seminar will focus on the requirements of 2009 IBC Chapter 21 and the referenced material standard

TMS 402/ACI 530/ASCE5. Both working stress and strength design of reinforced concrete masonry will be covered. Masonry building elements will be designed by manual and automated methods.

You should attend if you are involved in the design, construction or regulation of masonry structures. You will receive the latest information from the experts on how to use and interpret the masonry building code.

All participants will receive a seminar workbook, which includes a bound set of course notes and masonry technical bulletins. Other design reference material and masonry design software will be available for purchase at special seminar prices.

Presenters:

- **Sue M. Frey, P.E.** Project Manager, Senior Structural Engineering Designer, and Quality Assurance Manager, CH2M Hill
- **Edwin T. Huston, P.E.**, Principal of Smith and Huston Consulting Engineers, Seattle, Washington.
- **David I. McLean, Ph.D., P.E.**, Professor and Chair of the Department of Civil and Environmental Engineering at Washington State University.
- **Raymond T. Miller, P.E.** founder of Miller Consulting Engineers, Portland, Oregon.

Continuing Education

Certificates of attendance listing contact hours that can be used for continuing education units will be issued. The seminar will be registered with AIA.

Registration begins at 7:30 am. The seminar will be presented from 8:00 am to 5:00 pm. Morning coffee service, lunch, and afternoon refreshments are provided.

For full details and registration, visit <http://www.nwcmma.org/seminar/>

Pacific Northwest Bridge Inspectors' Conference

April 19–21, 2011
Red Lion Hotel On The River,
Jantzen Beach, Portland

The states of Oregon, Washington, Idaho, Alaska, and the FHWA are jointly hosting the 2011 Pacific Northwest Bridge Inspectors' Conference. The conference provides a forum for bridge inspectors and managers to share information, innovations, ideas, and best practices. Additional opportunity will be provided for attendees to gain a current federal perspective on the implementation requirements of the NBIS.

Who Should Attend?

The conference is intended for: city, county, state, federal, and consultant bridge inspectors and bridge managers who participate in the collection, interpretation, and reporting of bridge inspection data.

Washington State University's Continuing Education Units are available for this training.

The following link has more information and specifics on the conference: <http://conferences.wsu.edu/bridgeinspectors>

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STRUCTURAL ENGINEERS ASSOCIATION
SEA
ASSOCIATION
NW CONFERENCE

SAVE THE DATE
September 22-23, 2011

SEAW SEAO SEAI SEABC

Hosted by
Spokane & South Central Chapter SEAW

Featured Speaker
Ronald O. Hamburger, S.E., Senior Structural Principal
Simpson Gumpertz & Heger
"Next Generation of Performance Based Design"

Location
Red Lion Inn at the Park - Spokane, Washington

EARN UP TO 10 PDH'S, INNOVATIVE TECHNICAL TOPICS
PROFESSIONAL NETWORKING, YOUNG MEMBER'S FORUM

Contact seaw@seaw.org to participate.

Powers FASTENERS
HILTI
ASC STEEL DECK
Leading the way...
A BlueScope Steel Company

SIMPSON
Strong-Tie
PACIFICAD

RedBUILT
NUCOR
VERCO DECKING, INC.

HARDY FRAMES
A Miltek Company

Meetings, Seminars cont'd

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Simpson Strong-Tie Workshops

Simpson Strong-Tie will be hosting free workshops in Kent on April 26, 2011 and in Sequim, on April 28, 2011.

A light breakfast will be provided and lunch for all-day workshops. The workshops will be from 8:00 AM to noon, and from 1:00 PM–5:00 PM. Continuing Education Units are available for those interested.

Please visit our website at www.strongtie.com/workshops for registration and additional information.

ASCE Seattle Section Geotechnical Group, 2011 Spring Short Course and Seminar

Friday and Saturday
April 29 & 30

Short Course: Fundamentals of Soft Ground Tunneling
Friday, April 29
7:30 AM–4:45 PM
Red Lion Hotel, Bellevue

A one-day short course on the **Fundamentals of Soft Ground Tunneling** will be led by Dr. Ed Cording, Professor Emeritus, University of Illinois, Urbana-Champaign, with assistance from Dr. Gregg Korbin, consultant, Robert "Red" Robinson, L.E.G., of Shannon & Wilson, and Sam Swartz, P.E., of Jacobs Associates. Combined, the presenters have over 100 years experience in geotechnical engineering for tunnel projects. Dr. Cording will present methods of understanding ground conditions and ground behavior, and their influence on pressurized face tunneling, prediction of tunneling-induced ground movement; building distortion, and methods of controlling ground movement and damage. Dr. Korbin will discuss pressurized face tunnel boring machines, including current development of mixed-mode machines. Red Robinson will discuss geotech-

nical exploration for tunnel projects including field and laboratory soil testing, ground characterization, and preparation of geotechnical data and baseline reports. Sam Swartz will discuss design of precast concrete segmental liners. The short course will be held at the Red Lion Inn, Bellevue. Course attendees will be eligible to receive 0.7 Continuing Education Units (CEU) or 7 Professional Development Hours (PDH). For more information, please visit our website.

Seminar: Soft Ground Tunneling in Urban Environments

Saturday, April 30
UW Kane Hall Room 220
7:30 AM–4:45 PM

In recent years, major tunneling projects have been launched in the Seattle metropolitan area: the Alaskan Way Viaduct, the Brightwater Conveyance System, and the University-link tunnels being prominent examples. The ASCE Seattle Section Geotechnical Group is pleased to announce the 28th annual Spring Seminar titled "**Soft Ground Tunneling in Urban Environments.**" We invite you to join us and learn more about this topic. This year's seminar will focus on soft ground tunneling and the specific challenges of an urban environment. The presentations will be given by prominent speakers from design, construction, and geotechnical firms, owners, and academia. The presentations will provide a synopsis of state-of-the-art tunneling techniques and highlight several national case studies. In addition, the seminar will include award presentations, panel discussion, exhibitors display, and hosted lunch and breaks.

Seminar attendees will be eligible to receive 0.8 Continuing Education Units (CEU) or 8 Professional Development Hours (PDH).

For more information and registration, please visit <http://www.seattlegeotech.org>.

Seattle Chapter Elections Underway

Seattle Chapter Member SEs and Member PEs are eligible to vote in the Seattle Chapter Board election and bylaws changes. Candidates for the 2011-2012 term are:

President: Howard Burton

Vice President: Andrew McGlenn

Directors (top two highest votes):

Cale Ash Brian Pavlovac
Tom Corcoran Steve Dill

Members eligible to vote were sent an emailed invitation to vote online on March 23rd, with a reminder on April 6th. Polls will close on Friday, April 22nd.

If you are eligible to vote and did not receive an invitation, please contact the SEAW office at seaw@seaw.org.

COMPACTION GROUTING

The Performance Company

CHEMICAL GROUTING

The
PRESSURE GROUT COMPANY
More than 45 Years of Innovative Grouting

Densifying, Solidifying, Improving Soils
Mitigation of Soil Liquefaction
Tie-downs & Tiebacks/Anchors
Thwarting Soil Settlements
Stone Columns
Vibrated Concrete Columns
Rapid Impact Compaction

LENS GROUTING

PRESSGROUT PILES

206•621-0900
E-mail: pgc@pressuregrout.com
www.pressuregrout.com



**STRUCTURAL ENGINEERS ASSOCIATION
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Seattle Chapter Committees & Chairs

House/Program	Peter Opsahl
Refresher Course	Mark Moorlegghen
Membership	Cheryl Burwell
Newsletter	Lynnell Brunswig
Presentations/Awards	Andrew McGlenn
Engineer of the Year	Ed Huston
Governance	Howard Burton
Committee Oversight	Tom Bykonen
YMF	Dan Yeager

Statewide Committees & Chairs

Code Advisory	John Hooper
Earthquake Engineering	Tom Xia
Building Engineering	Scott Beard
Existing Buildings	Peter Somers
Professional Practices	John Tawresey
Wind Engineering	Scott Douglas
Exam Liaison	Ed Huston

Scholarship	Bill Mooseker
Legislation	Matt Toton
Education	Joe Ferzli
Finance & Auditing	Ted Smith
Disaster Prep/Response	Paul Brallier
Public Information	Cale Ash
Sustainability	Marjorie Lund
Snow Load	John Tate
SEAW Historian	Don Northey

For Committee contact information, visit www.seaw.org and click the Committee page

SEAW Calendar

APRIL, 2011

Saturday	2nd	YMF Habitat for Humanity Event
Tuesday	12th	YMF Happy Hour 5:00 PM Barolo, 1940 Westlake Ave, Seattle
Wednesday	20th	May Newsletter deadline
Tuesday	26th	Seattle Chapter Board meeting Seattle Chapter Dinner Meeting

MAY, 2011

Tuesday	10th	YMF Happy Hour 5:00 PM Whiskey Bar, 2000 2nd Ave, Seattle
Friday	20th	Seattle Chapter/State Board meeting State Newsletter Deadline
Tuesday	24th	Spring Social & Awards Event installation of new officers, Life Member/Spouse meeting presentation of Engineer of the Year & other awards.

JUNE, 2011

Tuesday	28th	Seattle Chapter Board Meeting
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Membership

Membership Applications

Shawn M. Johnson
T.Y. Lin International
BS 2003, University of Utah
MS 2005 University of Washington
Licensed PE, Washington
Class: Member PE

Andrew Kracht
KPFF Consulting Engineers
BS 2009, MS 2010 Washington State University
EIT, Washington
Class: Associate

Applications Accepted

Myron Basden, Member PE
Sarah Gehrke, Member PE
Erik Lofthus, Associate
David Sommer, Associate
Inna Tasmaly, Associate

Member Class Changes

Drew Graham, Associate: Leave of Absence
Oldrich Povolny, Member SE: Leave of Absence
Chad Taylor, Member PE to Member SE

Are Your 2011 Dues Paid?

INSTRUCTIONS FOR PAYING YOUR DUES ONLINE:

- Go to www.seaw.org and Log in to the member area (Default login name is your email address; password is your first name).
- Click on "My Membership" in the menu bar
- Select "Membership Renewal" in the gray menu bar to see if there is an outstanding invoice.
- Select the invoice and Follow the prompts to pay your dues online using your VISA or Mastercard.
- When your payment has been made, you will receive an automated receipt by email.

SEAW Member Stats as of March 25, 2011

	<i>Seattle Chapter</i>	<i>State SEAW</i>
Total membership:	632	878
Dues paying members:	567	794
Members paid for 2011	346	482
Paid percentage	61%	60%