

# CONNECTIONS

June 2012 Volume 12 Issue 10



Newsletter of the Structural Engineers Association of Oregon

#### **SEAO**

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# **Upcoming SEAO Meetings and Events:**

July 18, 2012: SEAO/OACI Annual Golf Tournament

Location/Time: Stone Creek Golf Club, Oregon City/1:30 pm, shotgun start

See page 4 for additional information

See sign-up and sponsorship flyers on pages 14 and 15.

July 26 - 28, 2012: SEA NW Conference

Location: Kah-Nee-Ta Resort & Casino, Warm Springs, OR. Theme: Shake It Up Again: Gambling with Seismic Vulnerability

See pages 10-13 and the website <a href="www.seao.org">www.seao.org</a> for additional information.

#### September 26, 2012: SEAO Dinner Meeting

Location: Governor Hotel, Portland / 5:30 am check-in & social, 6:15 pm dinner; 6:45 pm program. Sponsors: Open for Sponsors. Contact jane@seao.org for information on how to sponsor a meeting.

#### DON'T MISS THE UPCOMING - SEA NW CONFERENCE

July 26-28, 2012

Kah-Nee-Ta Resort

Registration for rooms and attendance DUE by June 25<sup>th</sup>

This is a weekend filled with technical talks, great networking with industry professionals from around the NW, and family fun. Events include a salmon dinner with Native Dance, water event, golf tournament, tennis tournament, family BBQ and much more. Bring the family and spend some time together while earning PDH's.

See attached forms on page 9 for schedule of events and technical program.

CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

Send membership inquires to: 9220 SW Barbur Blvd. No. 119 PMB #336 Portland, OR 97219

#### **BOARD OF DIRECTORS**

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## PRESIDENT'S MESSAGE: THE LAST LAP

By: Ed Quesenberry, P.E., S.E.



The phrase "finish strong" has been used many times in the last few weeks in my house. My wife and I have been using the phrase to motivate our two kids to not let up in the last crucial weeks of their school

year. With one of them being preoccupied with anticipation of becoming a senior in high school, the other barely containing his excitement about being soon done with junior high school, focus has been something that has been hard for them to maintain lately. Combine this with the stress of them preparing for and taking the SAT, getting through those term papers, and studying for finals, and you have quite the parenting challenge. As parents, we all want our kids to do well in whatever they do, and finishing strong is one concept that I feel is essential for them to grasp if they want to find future success.



In our profession, months of hard work and time can be compromised if we fail to fully execute our plan. Pressured by the impending deadline, dwindling budget, and the inevitable last minute changes by our beloved clients or other consultants, it is hard not to let frustration affect your ability or desire to finish strong. We as engineers would probably like the design process to work more in our favor, but the nature of the process seems to make it hard for us to avoid having to do a significant part of our work in the last 10 percent of the design schedule time. If we are not diligent during this critical time, the project quality and completeness can be jeopardized. It is our task as Structural Engineers to finish strong and see our projects through to the sometimes agonizing, bitter end--our

clients, the general public and our insurance companies are counting on us!

As the SEAO year draws to a close, the SEAO Board and Committees are working hard to finish strong. Our Seismic, Wind and Vintage Building Committees are diligently reviewing the new standards and codes, our Snow Load Committee is very close to seeing the launch of an electronic snow load map for Oregon, and our Young Member Forum is already outlining their plans for high school outreach next year. Our Conference Committee is putting the finishing touches on the SEA Northwest Conference that promises to be a fun, educational event at Kah-Nee-Ta Resort on July 26-28. SEAO's Seminar Committee is working up options for the Fall Seminar, and the Nominating Committee is very close to having the ballot full for next year's Board. In addition, many other SEAO members are donating countless hours of time to Oregon's Seismic Resiliency Planning and are striving to meet the February 2013 deadline for their report to the Legislature.

As you can see, SEAO benefits from having both strong leadership at all levels and many members that are dedicated to furthering our organization and our profession in their own way. SEAO is no different than a family or an engineering firm in that it takes a group effort to do good work and to finish strong, and I am blessed to have such an awesome team helping me do just that.

#### **SEAO Committees**

#### Technical

Doug Meltzer dougm@bmgpengineers.com

#### Seismic

Jason Thompson
Jason.thompson@kpff.com

#### Wind

Jim Riemenschneider jimr@vlmk.com

#### **Snow Load**

Andy Stember andy@jasenginc.com

#### Code

Eric Watson eric@miller-se.com

#### **Vintage Building**

Wade Younie wyounie@dci-engineers.com

#### **Emergency Response**

Shelly Duquette emergencyresponse@seao.org

#### Legislative

Paul Kluvers pkluvers@gmail.com

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Aaron Burkhardt
Aaron.burkhardt@kpff.com

#### Newsletter

JoMarie Farrell jomarie@equilibriumllc.com

#### **Monthly Meetings / Programs**

Brandon Erickson
Brandon@ericksonstructural.com

#### **Golf Tournament**

Melissa McFeron melissa@miller-se.com

#### Conferences

Kevin McCormick kevin@miller-se.com

#### **Young Member Forum**

Aaron Rudis

aaronx.v.rudis@intel.com

#### Seminars

Andy Stember andy@jasenginc.com

#### **Engineers Week**

Michelle Chavez michelle@miller-se.com

#### **NCSEA**

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Sue Frey sfrey@ch2m.com

#### MASER, OBOA

Ron Vandehey ron@miller-se.com

## EASTERN OREGON PRESERVATION ROUNDUP

#### Eastern Oregon Preservation Roundtable to Be Held in Pendleton June 22

# Building Owners, Regulators, Historians, and the Interested Public Encouraged to Participate

Some of the historic buildings Eastern Oregonians love best are in urgent need of repurposing, rehabilitation, and structural upgrade. From Main Street storefronts to schools, apartments to courthouses, there are over 5,000 brick, stone, and concrete masonry buildings across the state; many of which stand part-empty, don't meet modern codes, or lack seismic reinforcement. Yet, they are too important culturally, environmentally, and economically to lose.

Finding thoughtful solutions for investing in these buildings is the focus of the 2012 Preservation Roundtable hosted by the statewide Historic Preservation League of Oregon (HPLO). The organization is coming to Eastern Oregon for a half-day workshop as the third in a series of four they will conduct across the state. At the June 22 Roundtable, breakout sessions on insurance and finance, codes and design, and planning and economic development will engage a wide range of participants in discussing the policy areas that hamper efforts to fully revitalize these buildings. With input gathered at this workshop, the HPLO will identify creative ways to spur investment, create local jobs, and retain community character through the revitalization of our historic masonry buildings. A special report will be issued in October for use as the basis for local, state, and national policy changes intended to enhance the revitalization of masonry buildings across all corners of Oregon.

#### 2012 Preservation Roundtable:

Charting a Course for Oregon's Historic Masonry Buildings Friday, June 22 9:00am – 2:00pm Pendleton Underground Tours 37 Emigrant Avenue, Pendleton

\$10 for the general public, \$7 for members of the HPLO. Registration includes lunch plus a behind-the-scenes tour of several historic buildings not typically open to the public. The workshop will be facilitated by prominent members of Oregon's preservation, architecture, and engineering communities and is designed to allow all participants to contribute to the roundtable discussion of core issues and opportunities for revitalizing these buildings. RSVP's should be made on the HPLO website <a href="https://www.historicpreservationleague.org/roundTable.php">www.historicpreservationleague.org/roundTable.php</a> or by calling 503 243-1923. See flyer on page 16 for additional information.

#### **About the HPLO:**

The mission of the Historic Preservation League of Oregon is to **Preserve, Reuse, and Pass Forward Oregon's Historic Resources to Ensure Livable, Sustainable Communities.** A 501(c)(3)non-profit founded in 1977, the HPLO provides education programs, advocacy, and holds over 40 historic conservation easements on properties across the state, protecting them from demolition in perpetuity. In addition to the annual <u>Preservation Roundtable</u>, they also publish an annual list of <u>Oregon's Most Endangered Places</u> which in 2012 includes Pendleton's Rivoli Theater.

Organizational goals include:

- **Preserve** and **pass forward** historic sites, properties and districts.
- Ensure sufficient economic incentives for historic preservation.
- Promote appropriate land use policies, development guidelines and preservation standards.
- Educate the public to increase awareness of the economic value of preservation and its essential role in sustainability.

Operating statewide, the HPLO office is located in the historic White Stag Block, 24 NW First Avenue, Portland, OR 97209, (503)243-1923, www.HistoricPreservationLeague.org.

## 2012 SEAO/OACI GOLF TOURNAMENT

# July 18, 2012 A Great Time for All



It's back and it's better than ever. This year's SEAO/OACI Golf Tournament is scheduled for Wednesday, July 18<sup>th</sup>. To entice you engineers away from your desks, we're offering more prizes and free stuff than ever before, so sign up now! If you have your eye on a win, place or show prize, you can increase your chances by buying *mulligans* for "do overs" on the course. There will also be the long drive and KP awards. The raffle will return with new exciting raffle items. Among the raffle items this year will be a 42" flat screen TV, a three wheeled golf cart, a salmon fishing trip for 2, and a round back at Stone Creek for 4, and try your luck at a hole in one for \$10,000. Complimentary beverages both on the course and at the 19<sup>th</sup> hole should keep spirits up. If you don't have fun this year you have a bad attitude!

We are returning to *Stone Creek Golf Club* in Oregon City. Stone Creek continues to receive accolades from around the state and is a "must play" in the Portland area. Stone Creek is a great test of golf for accomplished players and a fun course for the less experienced. Everyone will be impressed by the variety of holes, speed of the greens (you've been warned!), and beauty of the scenery. The BBQ dinner and social hour promises good food and company, and with a shotgun start, all participants will be able to eat and celebrate the day together.

The shotgun start is at 1:00 PM. Come at least ½ hour early to check in, hit some balls and test the putting green. The social hour and awards start at 6 pm with dinner following. Power carts and range balls are included in the golf fee. The tournament format is a 4-person scramble. The prestigious SEAO Trophy will be awarded to the low SEAO foursome (at least 3 members). Again this year, OACI will be joining us for the tournament, allowing for some friendly competition with the concrete guys.

Come have some fun with your engineering pals. Get your foursomes in now. If this event is to continue the members need to <u>participate!</u>

**Please send your entry in ASAP, the deadline is July 3!** If you need more information, contact Jane Ellsworth 503-753-3075 or Melissa McFeron 503-246-1250. Space is limited so sign up now! Stone Creek is located just off Route 213 in Oregon City

14603 S. Stoneridge Drive Oregon City, OR 97045 503-518-4653

#### **Directions from Portland Airport**

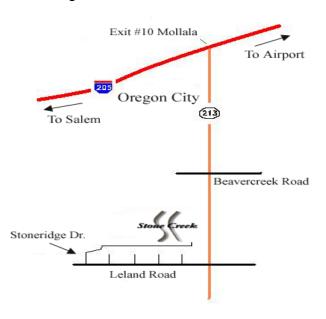
- Proceed South on Interstate 205
- Take Exit #10, Molalla
- Go South on Hwy 213 6 Miles
- Turn Rt on Leland Rd- go1/2mile
- Turn Right on Stoneridge Drive
- Follow road until it ends

#### **Directions from Salem Area**

- Go North on I-5 and take I-205 North
- Take Exit #10. Molalla
- Go South on Hwy 213 6 Miles
- Turn Rt on Leland Rd- go 1/2mile
- Turn Right on Stoneridge Drive
- Follow road until it ends

#### **Mapquest to and from Directions**

Be aware of the end point, you must take your next right off of hwy 213 onto Leland Rd. and go about a 1/2mile to Stoneridge Road.



## MAY MEETING RECAP

By: David Tarries, P.E.

# Topic: Today's Civil Engineering Education in Oregon With Panelists: Dr. Thomas Miller, Dr. Franz Rad, Dr. Sean St.Clair, and Dr. Mehmet I. Inan

This meeting was a discussion with a panel of educators from Oregon's institutions of higher education providing Civil Engineering degrees regarding the state of the current education system and how it relates to the practicing engineer. Panelists each presented information about their programs, and then questions from SEAO members regarding education of future Structural Engineers were asked. Brandon Erikson moderated the discussion.



#### Panelist Information:

#### DR. FRANZ RAD

Professor, Mashee College of Engineering & Computer Science Civil & Environmental Engineering Portland State University

Dr. Rad is one of three Structural faculty at PSU. There are 15 professors in the Civil and Construction Engineering Department.

The Bachelor of Science in Civil Engineering is mostly a set curriculum. It includes electives during the Junior and Senior years that can be taken in structures. The course work meets the ABET prescribed minimum for a Civil Engineering program. The program is now at capacity and they do not accept all applicants.

PSU has about 140 graduate-level students in Civil Engineering with 40 in the structural program. The Master of Science in Civil Engineering requires a thesis and 45 credit hours. The Master of Engineering degree requires 48 credit hours without a thesis.

Professionals are involved in the curriculum through the department advisory council. Support and funding of research projects is another way professionals can interact with the program. The iStar lab has a shake table for use in seismic testing, and Peter Dusica has been involved in local bridge testing and monitoring. Through support of research and assisting in courses, the local professional can have a large affect on the curriculum at the Master's level.

#### DR. SEAN ST.CLAIR

Associate Professor and Department Chair, Civil Engineering Department Oregon Institute of Technology/Oregon Tech

Oregon Tech is the current name of the institute. They are ABET accredited and offer a Bachelor of Science in Civil Engineering. Dr. St.Clair is one of two Structural faculty and five Civil faculty in the department. The curriculum is very practice-oriented. It is set up to show students how to do things like ASCE 7 wind load and equivalent lateral force calculations. Many other larger programs do not show students how to complete tasks that working engineers perform on a daily basis. The Oregon Tech curriculum focuses on information more commonly used by professionals while touching lightly on things like dynamic analysis that are less frequently used. The program also includes a senior design project course that takes a project from an empty site through construction documents.

Oregon Tech has recently been approved to offer a Master of Science degree in addition to a Bachelor of Science degree. The Master program has not been started, but is part of a plan to produce graduates that are more able to enter the workforce prepared to contribute. The Master's degree would be offered on a five-year plan concurrent with the Bachelor's degree.

#### DR. THOMAS H. MILLER

Associate Professor, Assistant Head for Civil Engineering, School of Civil and Construction Engineering Oregon State University

The Oregon State School of Civil and Construction Engineering has 284 freshman and sophomore students and 199 junior and senior students. The Master's program has 13 students and the PhD program has 10 students. There are five Structures professors and a number of other professors and professionals that assist with the program.

The university has two large Structures labs. The first is the second largest structural test floor on the West Coast. It has a strong floor

(Continued on page 6)

#### MAY MEETING RECAP

(continued from page 5)

and strong wall. The other is a smaller lab in the Wood Science Department which also has a strong floor and strong wall.

The general Civil Engineering program has five required structural courses with many senior and graduate elective options. The advanced design courses are generally part of the graduate program. The university also participates in academic competitions like the Steel Bridge and Concrete Canoe competitions.

#### DR. MEHMET I. INAN

Associate Professor of Civil Engineering, Chair, Civil Engineering Department

University of Portland

The University of Portland has a total of 4,000 students in the entire University. 650 students are in engineering, and 150 of those are in the Civil Engineering program. The University only offers a Bachelor of Science. No graduate level courses are currently offered. University of Portland students do not specialize in structures, the degree is a general Civil Engineering degree. The program has three required courses in Structures and four technical electives. A senior design course is also required that can have a structural emphasis. Ten courses cover typical codes such as ACI, AISC, ASCE 7, and AASHTO. Outside speakers (local professionals) are sometimes asked to present projects and teach courses. SEAO can foster relations with the school by teaching these courses or serving on the board.

#### **QUESTION AND ANSWER:**

<u>Question:</u> How much do you teach communication skills like graphics and writing?



#### Answer:

#### $\mathsf{PSU}$

- Civil Engineering graphics course is required
- Speech and writing courses are a general requirement of the University
- Engineering economics course required

#### OT

- Hand-sketching is included in Freshman Engineering
- CADD course is required
- Civ3D course is required
- 9 credits of writing
- 3 credits of speech

#### OSU

- Speech/Communication course is required
- CADD course is required
- New course on BIM is offered
- Writing course is required

#### UP

- Graphic Design course is required
- Communications as part of course presentations is required

Question: With more opportunities for distance learning, is there a

trend for certificates versus a formal degree?

#### Answer:

#### PSU

- Does not accept distance learning/online courses
- Certificates are not offered in Structural Engineering

#### OT

- Does not accept distance learning/online courses
- Certificates are not a perquisite for the PE and are not part of the planned curriculum

#### OSU

- Offers one distance learning class in masonry for practicing engineers
- Does not offer certificates

#### UP

- Does not accept online courses
- Does not offer certificates

<u>Question:</u> There appears to be a gap between education and practice. Students should not be surprised that lateral loads are important and are used every day. How do you get a student ready to hit the ground running?

#### Answer:

#### PSU

- Get a Master's degree so students have more knowledge
- University Heads are reducing credits to keep programs competitive with other educational options, so the basic Bachelor's degree is being watered down

#### ОТ

- OT works hard to use codes to teach so its graduates can be prepared to enter the work force
- OT thinks they are doing well in this department

#### OSU

- Agrees that Master's degree is needed
- Internships are also important

#### UP

- The department is squeezed between reducing credits and covering the core courses while offering more university required diversity courses
- Graduate degree is a must to be prepared

<u>Question:</u> What is the source of the pressure to reduce credits required for a degree?

#### Answer:

#### OT

- The State government passed a requirement that students should graduate sooner so schools are reducing their credits required for graduation
- Schools must reduce their credit requirements to comply and also to avoid losing students to other programs that take less time to complete

UP

#### MAY MEETING RECAP

(continued from page 6)

Stanford University set their Bachelor of Science program
with the idea that the curriculum for the degree should
be more broad so that students have to get additional
detail in Graduate school. When top schools change
their standards, others follow in order to remain competitive.

#### PSU/OT

 ABET requirements have also changed slightly so they are now less credit-based and more performance-based

<u>Question:</u> What about pay scale and licensure with Graduate school requirements?

#### Answer:

#### **PSU**

A Master's degree is becoming the norm

OT

 Other states may start requiring a Master's to obtain a PE, so OT felt they needed to offer it proactively

<u>Question:</u> Many engineers have to deal with existing buildings versus new buildings. It appears that schools are lacking in existing building instruction?

#### Answer:

#### PSU

Agrees in general, some schools do offer courses on this topic

<u>Panelist Question:</u> Can SEAO get more information to colleges about current codes and code changes?

#### Answer:

- Students could attend SEAO seminars, there is a student rate
- Good structural magazines are available from the industry that have information and articles on code changes, these are often available for free to students
- Students could attend SEAO lunch and dinner meetings

#### Other Notes:

PSU would like to offer a seminar course. SEAO professionals would be needed to present projects to the class. There would be 10 classes each semester.

OT and OSU would like to get access to the SEAO meeting web-

The Young Members Forum will inform the panelists about networking opportunities for students in activities, such as service projects.

#### SEISMIC QUIZ

This seismic quiz has been put together by the Seismic Subcommittee of SEAO. With special thanks to Devon Lumbard for help with a few questions. This month's theme is Concrete Anchors. All references below are to ACI 318-08. If you have ideas for a Seismic Quiz theme, please email Jennifer Eggers at <a href="mailto:JEggers@degenkolb.com">JEggers@degenkolb.com</a>. Enjoy!

- 1. What criteria must a steel element meet to be considered ductile per ACI 318-08 Appendix D?
- 2. What reduction in nominal capacity is required for nonductile anchors?
- 3. True or False. There are no further reductions to the nominal strength where anchors are used with built-up grout pads.
- 4. True or False. The nominal capacity for concrete breakout strength for an anchor in shear when the force is parallel to an edge is twice the value when assumed to act perpendicular to the edge.
- 5. What is the difference between 'Condition A' and 'Condition B' when determining phi factors for Appendix D?

#### See page 9 for answers



If engineers were in charge of advertising.

## JOB OPPORTUNITY

# The City of Portland is a great place to work!

The City of Portland is recruiting for a **Structural Engineer** in the Engineering Plan Review Section of the Bureau of Development Services (BDS).

Engineers at BDS review the structural portion of permit applications to ensure compliance with applicable codes and regulations, including the review of a full range of commercial and residential structures. This challenging work provides an opportunity to review building plans for various types of construction and interact with a diverse cross-section of individuals.

Qualifications: Candidates must be Registered Professional Civil or Structural Engineers with an extensive background in structural engineering of buildings and experience as a professional engineer. Certification of registration as a Structural Engineer (S.E.) is preferred. BDS is looking for a candidate with knowledge of and ability to review and evaluate building construction documents for accuracy and compliance with state and local laws and regulations including Oregon Structural Specialty Code, Oregon Residential Specialty Code, ASCE 31 and ASCE 41. Engineers at BDS must have excellent interpersonal skills so that they can communicate professionally, clearly, and effectively. They must be able to solve problems and focus on finding options and alternative designs. Further qualifications are outlined in the position announcement, which is posted on the City of Portland's Career Center at <a href="https://www.PortlandOnline.com/Jobs">www.PortlandOnline.com/Jobs</a>

# Compensation

City of Portland offers competitive compensation and an excellent benefit package that includes an insurance plan with coverage for medical, dental, vision, life and long-term disability; generous vacation and sick leave accrual benefits; several paid holidays plus three personal holidays each year; City-paid retirement contributions; and an employee-paid Deferred Compensation Plan. Employees may take advantage of many City-sponsored health and wellness activities.

# **Application Process**

This recruitment closes at 4:30 p.m. on July 16, 2012.

BDS has posted some "Helpful Hints" for navigating the City's application process. Access "Helpful Hints" at: www.portlandonline.com/bds/index.cfm?c=47179.

The City of Portland accepts applications through our **Online Career Center**, located at: <a href="www.PortlandOnline.com/Jobs">www.PortlandOnline.com/Jobs</a>. Applications are accepted only during open recruitment times. BHR continues to work with ADA qualified applicants requesting accommodation.

# **Optional Information Sessions**

The Bureau of Development Services will offer two Optional Information Sessions, to provide you with additional information about this position, as well information about the City's recruitment and selection process. You are encouraged to attend, but attendance is not required. The Sessions will be held at the Bureau of Development Services, located at: 1900 SW 4th Avenue, Fifth Floor ~ Room 5a Portland, OR 97201

Dates and times are: Monday July 9, 2012, from 6:15 - 7:00 p.m. and Tuesday July 10, 2012, from noon to 1:00 p.m.

For additional information about the position and work Contact Amit Kumar, Sr. Engineer 503-823-7561, <a href="mailto:amit.kumar@portlandoregon.gov">amit.kumar@portlandoregon.gov</a>

For information about the City's application process contact :: Jarvez D. Hall, MBA GPHR, Human Resources Business Partner 503-823-1696, <a href="mailto:Jarvez.Hall@portlandoregon.gov">Jarvez.Hall@portlandoregon.gov</a>

#### MONTHLY MEETINGS COMMITTEE CHAIR



For the 2012/2013 term, SEAO is seeking a volunteer to take over the Monthly Meetings Chair role. The Chair's duties include:

- Working with the Board in determining desired topics and speakers for seven monthly meetings.
- Obtaining commitments from speakers and provide information about speaker and topic to newsletter committee.
- Coordinating logistical requirements with Jane Ellsworth. Jane handles booking of venue, A/V, lodging for speakers, etc—Programs Chair is just responsible for outlining requirements for Jane for each meeting.
- Attending monthly meetings personally or have a fellow committee person stand in for you.
- Soliciting and obtaining sponsorships for all meetings. The Board can help with this effort if needed.

This is a great opportunity to get involved in SEAO, and to help direct and promote our mission of educating our members. For the organized person, this position will require about four hours a month plus the meeting time. This position can be shared, so if you know of someone you can team with, we would love it if both of you can step forward. If you are interested, or would like more information, please contact Jane Ellsworth at jane@seao.org.

#### ANSWERS TO SEISMIC QUIZ ON PAGE 7

- 1. Section D.1. Ductile Steel Element An element with a tensile test elongation of at least 14 percent and reduction in area of at least 30 percent.
- 2. Nominal capacity is multiplied by 0.4 or 0.5 in accordance with ACI 318-08 D3.3.6, in addition to phi and the 0.75 factor on concrete in section D3.3.3. Note that ACI 318-11 D3.3.4.3 (d) utilizes  $W_0$ .
- 3. False. In addition to other factors, the nominal capacity is multiplied by 0.8 in this case per D6.1.3.
- 4. True per D6.2.1/c.
- 5. Supplementary reinforcement and consideration of failure mode per D4.4/c.

# SEA NORTHWEST CONFERENCE

# Kah-Nee-Ta Resort and Spa, Warm Springs, OR Schedule of Events

#### Thursday July 26, 2012

8:00 a.m.- 1:00 p.m.

1:00 p.m. - 6:00 p.m.

Noon - 1:00 p.m.

1:00 p.m. - 4:30 p.m.

1:00 p.m. - 6:00 p.m.

Technical Session I (with ½ hour break)

Vendor Area Gathering

6:30 p.m. - 9:00 p.m.

Salmon Dinner with Native Dance

### Friday July 27, 2012

8:00 a.m. - 4:00 p.m.

8:00 a.m. - Noon

Noon - 1:00 p.m.

1:00 p.m. - 4:30 p.m.

5:00 p.m. - 6:00 p.m.

After dinner

Vendor Exhibits

Technical Session II (with ½ hour break)

Technical Session III (with ½ hour break)

Pre-Dinner Reception

Dinner

Self Guided tours of Casino

#### Saturday July 28, 2012

6:00 a.m. - 7:00 a.m. Water Event
8:00 a.m. - 1:00 p.m. Golf and Tennis Tournaments
2:00 p.m. - 5:00 p.m. Picnic/Barbecue Dinner (Family)

# **Technical Programs**

# Attendees can earn up to 9 PDH hours if all sessions are attended.

## **Technical Session I**

## Thursday - July 26, 1:00 p.m. to 4:30 p.m.

- ◆ "Christchurch Earthquake Lessons for the Pacific Northwest"
   Dr. Ken Elwood – University of BC Sponsored by the British Columbia Chapter
- ◆ "Seismic Safety, The Resilient WA State & OR State projects"
   Stacy Bartoletti, P.E., & Kent Yu, P.E.
   Degenkolb Engineers
   Sponsored by the Seattle Chapter
- "Principals of Geotechnical Analysis for retaining walls with an emphasis on lateral earth pressures, Surcharge loads &pseudo-static seismic analysis"
   Dr. Stan Miller University of Idaho Sponsored by the South Central Chapter

## **Technical Session II**

# Friday - July 27, 8:00 am to Noon

- ◆ "ASCE 31/41 updates & combination into one Standard"
   Peter Somer, Degenkolb Engineers Sponsored by the Washington Chapter
- ◆ "Masonry Design Using TMS 402-11 DM"
   Raymond Miller, S.E, & Lane Jobe,
   Miller Consulting Engineers
   Sponsored by the Oregon Chapter

♦ "Unified Design Approach to Buckling Restrained Braced Frames"

Kimberley Robinson, S.E. Star Seismic Sponsored by Oregon Chapter

#### **Technical Session III**

## Friday - July 27, 1:00 p.m. to 4:30 p.m.

- "Seismic assessment of K thru College Schools in Idaho"
   Mark Stephensen, Mitigation Section Chief & Susan Cleverley, Sr. Mitigation Planner Idaho Bureau Homeland Security Sponsored by Idaho Chapter
- "Wood Shearwall Design Methods including Perforated walls & shear transfer approach Dr. J. Daniel Dolan, P.E.
   Washington State University Sponsored by Spokane Chapter
- "State of the Industry: The A/E/E Toolbox for the Hardening Professional Liability Insurance Marketplace.
   Ryan Schultz, & Michael Olson Kibble & Prentice
   Sponsored by Oregon Chapter



# SEA NORTHWEST CONFERENCE

Kah-Nee-Ta Warm Springs, OR July 26 - 28, 2012

## **REGISTRATION FORM**

| T(LOIO  | I RATION FORWI   |
|---|--|
|   | No. Price Amount<br>Req'd. Per<br>Person   |
|   | REGISTRATION   |
| Name  | Registrant \$475 \$<br>(Registrant lunches and dinners except Saturday picnic  |
| (Please check as □ Registrant □ Speaker appropriate) □ Vendor □ Student | are included in price)         Late fee if after June 25th\$50       \$         Guest       \$40       \$  |
| Guest   | Student \$50 \$  Vendor, Speaker, Guest and Student registration does NOT include meals. Please add meals under the "Guest" category.  |
| Company   | To a chief size of the disease according to the size of a selection of a selectio |
| Address   | Ladies Fitted:LMS Standard:XXLXLL  |
|   |  |
| Telephone   |  |
| SEA Chapter   |  |
| Children (Y/N)  |  |
| How many?   |  |
| Ages  |  |
|   | Guest \$50 \$<br>Children 3-12 * \$20 \$   |
| Special Dietary Requirements:   | Friday, July 27 <sup>th</sup>  |
|   | Lunch (Technical Session)  |
| Mail this form and check to:  | Guest (Adult only) \$20 \$   |
| SEAO c/o Jane Ellsworth   | Dinner (All Welcome)   |
| 9220 SW Barbur Blvd #119, PMB 336                                       | Guest \$45 \$  |
| Portland, OR 97219  | Children 3-12 * \$10 \$  |
| (503) 753-3075  | Saturday, July 28 <sup>th</sup>  |
| Fax (503) 214-8142  | Tennis Tournament \$15 \$  |
| We accept Visa/ MasterCard/AmExpress                                    | Golf Tournament \$55 \$  |
| Make checks payable to SEAO   | Golfers' Lunch Box \$20 \$   |
| Make lodging reservations directly with:                                | Picnic Dinner (All Welcome)  |
| Kah-Nee-Ta  | Registrant/Guests \$22 \$  |
| 541-553-1112  | Children 3-12 * \$10 \$  |
| or online at www.kahneeta.com   | TOTAL \$   |
|   | * Ages 2 and under free  ** Includes 18 holes, cart & small bucket of balls  |
|   | Cancellations up to July 14 <sup>th</sup> subject to a \$25.00 handling charge.  Cancellations after July 14 <sup>th</sup> will be charged \$275.  |

# **Resort and Reservation Information**



#### **Lodging Reservations**

Make lodging reservations directly with Kah-Ne-Tah. Room reservations should be made by calling (541) 553-1112, or on the website at reservations@kahneeta.com. Reservations should be made as soon as possible to assure your desired room accommodation.

Reservations must be made by June 25, 2012 to receive Conference Room Rates listed

below. After that, rooms are on a first come basis. Check-in time is 4:30 p.m.; checkout is 11:30. There will be a charge for late departures. Be sure to mention you are with the Structural Engineers of Oregon to get group/conference rates.



#### **Lodge Accommodations About Kah-Nee-Ta Resort**

The Warm Springs Reservation was established by The Treaty of 1855 on a small reserve of land where our ancestors lived for thousands of years. In 1937 the Wasco, Paiute and Warm Springs Tribes organized as the Confederated Tribes of Warm Springs and became a sovereign, selfgoverning nation.

Kah-Nee-Ta Village was completed in 1964 and named for the Indian woman Xnitla, "Root Digger" who had owned the property.

Xnitla was a scout and spiritual leader who used

the natural hot springs and indigenous plants and roots for medicinal purposes and religious ceremonies. The Lodge and Convention Center opened in 1972.

6823 Hwy. 8, Post Office Box 1240, Warm Springs, OR, 97761, USA Tel: 541-553-1112

#### **Conference Room Rates**

| 1 Bed:  | \$125.00 | One king or Queen sized bed.  |
|---------|----------|-------------------------------|
| 2 Beds: | \$125.00 | Two King or Queen sized beds. |

Rooms feature television, DVD player, coffeepot, iron, ironing board and bath amenities Room rates do not include state and local tax.

Museum in Warm Springs to learn more about the Warm Springs Indian Heritage. 18 hole Championship golf course, 2 swimming pools, Casino, Horseback riding, Spa Wanapine, Bicycle rentals, Hiking trails, Basketball, Volleyball, Tennis and Miniature golf.

Take a look at this video on some of the fun things to do at the resort: <a href="http://youtu.be/1XvERNUwafg">http://youtu.be/1XvERNUwafg</a>

For more information visit Kah-Ne-Tah Website at: www.kahneeta.com

# 2012 SEAO / OACI Golf Tournament

JULY 18<sup>m</sup>, 2012 Stone Greek Golf Course 1:00 pm SHOTGUN STARTI

# WHEN:

DATE: Wednesday, July 18<sup>th</sup>
SHOTGUN START: 1:00pm
SOCIAL HOUR: 6:00pm

DINNER & AWARDS: 6:30-7:30PM

# TOURNAMENT:

**4**-Person Scrambles **ONLY** 



jane@seao.org

# **CONTACT INFO:**

Jane Ellsworth (503) 753-3075

Melissa McFeron (503) 246-1250 melissa@miller-se.com

NO REFUNDS FOR CANCELLATIONS AFTER JULY 6TH

# WHERE:

#### STONE CREEK GOLF CLUB

14603 S. Stoneridge Dr. Oregon City, OR 97045 Phone: (503) 518-4653

# **DINNER:**

Chicken Buffet & Beverage

# **FEES:**

Golf & Dinner: \$95

(Includes golf cart & driving range)

# **EVENT DETAILS:**

Once again this year S.E.A.O. and O.A.C.I. combine forces for a return engagement of golf and merriment at **Stone Creek Golf Club**. Stone Creek is the newest golf course in the Portland area and is the pride of designer Peter Jacobsen. Participants will <u>all</u> enjoy the team spirit of playing a 4-person scramble.

We will have a shotgun start at 1:00PM, allowing us to all finish at the same time to share stories of the day's glory and despair, along with dinner, beverage and many prizes. We hope that you will come join us and support both organizations.

The course offers a driving range, a large putting green to hone your skills prior to the tournament so come early. Power carts and range balls are included in the golf fee.

# Appropriate "Country Club" attire is recommended:

- → Collared Shirts
- → No Denim
- → Shorts must have a 6" inseam
- → Soft spikes only.

Don't forget to bring money for the raffle prizes and mulligans! This year's raffle prizes will be: 42" TV, iPad, Kindle Fire, Ocean Salmon Fishing Trip for 2, Gym Membership, Golf Club and much more!

## ≫

# PLEASE RETURN THIS ENTRY FORM BY JULY 5<sup>TH</sup> TO:

#### S.E.A.O.

9220 SW Barbur Blvd. #119 PMB #336 Portland, OR 97219 (503) 753-3075 Phone (503) 214-8142 Fax

| Check Enclosed | l |
|----------------|---|
|----------------|---|

| Player Names           | Membership |       | Payment Enclosed |  |
|------------------------|------------|-------|------------------|--|
|                        | □ SEAO     | OACI  | \$               |  |
|                        | □ SEAO     | OACI  | \$               |  |
|                        | □ SEAO     | OACI  | \$               |  |
|                        | □ SEAO     | OACI  | \$               |  |
| ☐ VISA / ☐ MC Accepted |            | Total | \$               |  |

| Name on Card: |            |
|---------------|------------|
| Card #        | Exp. Date: |

# 2012 SEAO / OACI Golf Tournament

JULY 18<sup>11</sup>, 2012 160 PM SHOTGUN STARTI

# Donation / Hole Sponsor Form

| Sp  | onsor Information                                    |              |   |            | • • • • |   |
|-----|--|--------------|---|------------|---------|---|
|     |  |              |   |            |         |   |
| Co  | ontact Name:   |              |   |            |         |   |
| Ph  | one:   |              | _ Fax:                                      |            |         |   |
| En  | nail:  |              | _   |            |         |   |
| ••• | _  |              | •     |            | • • • • | • |
|     | ole Sponso   | rship        |   |            |         |   |
| 0   | GOLD - \$200 for tee signal Hole Preference          | _            | at the hole and recognition                 | on banr    | ner c   | t dinner                                |
| 0   | SILVER - \$150 for tee si<br>on banner at dinner     | gn, but stat | ioned at putting green/driv                 | ving range | bef     | ore golf and recognition                |
| 0   | BRONZE - \$125 recogn                                | ition on ba  | nner at dinner                              |            |         |   |
|     | Decial Spon LD/KP/Long Putt Hole : Hole Preference   | Sponsor   \$ |   |            |         |   |
| 0   | On Course Drink Refre<br>(Host drink cart for one    | -            | onsor   \$375<br>per participant to be rede | eemed du   | ıring   | play)                                   |
| 0   | 19th Hole Sponsor   \$2<br>(Host keg of Micro-bre    |              |   |            |         |   |
| 0   | Golf Cart Sponsor   \$2<br>(Host the golf carts with |              | each cart with your compo                   | any name   | )       |   |
| 0   | Scorecard Sponsor   S<br>(Host the scorecards v      |              | ne of your company on ed                    | ach card)  |         |   |
|     | affie Prizes   |              |   |            |         |   |
| 0   | 42" TV   \$600                                       | Oce          | ean Salmon Fishing Trip for                 | 2   \$250  | 0       | 3-Wheel Golf Cart   \$150               |
| 0   | iPad   \$500   | _            | n Membership   \$300                        |            | 0       | Golf Club   \$150                       |
| 0   | Kindle Fire   \$200<br>*Golf committee will pur      |              | Cards   \$50 & \$100<br>prizes              |            | 0       | Power Washer   \$500                    |

# Please Return This Form A.S.A.P. to:

S.E.A.O.

9220 SW Barbur Blvd., Suite #119, PMB #336 Portland, OR 97219 Fax: (503) 214-8142

# Contact Info:

Jane Ellsworth (503) 753-3075 oaci@comcast.net



# Charting a Future for Oregon's Historic Masonry Buildings

Resilience, Access, and Economics

# Friday June 22, 2012 9:00am – 2:00pm

Pendleton Underground 37 SW Emigrant Avenue Pendleton, Oregon

# \$7 HPLO members \$10 general public

Registration includes lunch, downtown buildings tour, and input sessions on issues related to the resilience, access, and economics of masonry buildings.

For details and to **RSVP** visit: Historicpreservationleague.org
Or call (503) 243-1923



Some of the historic buildings Eastern Oregonians love best are in urgent need of repurposing, rehabilitation, and structural upgrade. From Main Street storefronts to schools, apartments to courthouses, these buildings tell the story of our community and need thoughtful solutions to be put back into productive use and passed forward to future generations.





Join the Historic Preservation League of Oregon for a half-day workshop to examine issues and identify a range of local, state, and national policy recommendations for how Oregonians can best revitalize these important historic buildings. A report detailing findings from the Roundtable will be issued in October.