

SEAI NEWSLETTER



Structural Engineers Association of Idaho

P.O. Box 8733, Boise, ID 83707

www.seaidaho.org

BOARD OF DIRECTORS & COMMITTEE CHAIRS

Please feel free to contact any one of our board members with your ideas or suggestions for program/speaker topics or how you would like SEAI to better represent the Structural Engineers of Idaho.

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ssoule@treasurevalleyengineers.com

SEAI ELECTIONS 2006

It's time to elect new officers for the 2006/2007 year. If you would like to run for an SEAI office or would like to nominate someone for office, please contact one of our Nomination Committee members (Steve Call or Greg Leishman) by Thursday afternoon, April 13th. Once you receive your ballot, you'll need to mail it back to the SEAI PO Box, postmarked before May 5th, to ensure that it gets counted.

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SEAI LUNCH EVENT – APRIL 18TH

"WHAT DESIGN PROFESSIONALS NEED TO KNOW ABOUT CONCRETE MIX DESIGN AND SPECIFICATIONS"

Presented by Michelle L. Wilson of the Portland Cement Association.

Date: Tuesday, April 18, 2006

Location: Yen Ching Chinese Restaurant
305 N 9th St Boise, ID
(208) 384-0384

Yen Ching Restaurant is near 9th and Bannock in downtown Boise. Parking is available between 9th and 10th street on Bannock at the Washington Trust building.

This presentation will cover the use and application of specifying concrete in accordance with ACI 318, "Building Code Requirements for Structural Concrete", ACI 301 "Specifications for Structural Concrete", and ASTM C 94 "Standard Specification for Ready-Mixed Concrete" for concrete construction.

Topics will include:

- Specifying and evaluating mix designs to suit design requirements, environment, and placement conditions;
- Specifying proper transportation and delivery, and;
- Quality control testing of fresh concrete to ensure compliance with specifications.

Speaker Bio

Michelle Wilson is Manager of the Education and Product Development Departments at the Portland Cement Association. She is responsible for the development, content, and training of PCA's education and training programs and technical products covering the entire spectrum of concrete technology and cement manufacturing. She has given numerous workshops and presentations around North America on concrete materials,

construction, inspection, troubleshooting, and repair. She participates in concrete research activities and produces technical literature about concrete technology that serves the needs of design and construction professionals. She is also an associate editor of PCA's *Concrete Technology Today*.

Ms. Wilson holds a B.S. in Architectural Engineering from Milwaukee School of Engineering, with an emphasis in structural engineering and concrete materials. Prior to joining PCA in 1999, she worked for Construction Technology Laboratories since 1997, PCA's sole subsidiary, specializing in concrete evaluation and troubleshooting on various projects throughout the United States and previous to this she worked as a field inspector performing quality control for STS Consultants, Ltd. in Milwaukee, Wisconsin.

She is a member of ASTM Committee C09 Concrete and Concrete Aggregates, and ACI International Committees 201 Durability, 311 Inspection of Concrete, and 301 Specifications for Concrete.

Cost Per Person

Member:	\$15.00
Non-Member:	\$20.00
Student:	Free

Social:	11:45 am – 12:00 pm
Lunch:	11:45 am – 1:00 pm
Announcements:	12:00 pm – 12:10 pm
Program:	12:10 pm – 1:00 pm

RSVP

If you plan to attend, please contact to Wilson Antoniuk by **4 pm, Friday April 14th**.
antoniw@trusjoist.com - (208) 395-2458

BY THE WAY...ENGINEERING NEWS AND GENERAL INTEREST

MEMBERSHIP UPDATE

SEAI is still growing. We would like to welcome the following new member:

<u>Name</u>	<u>Employer</u>
Wes Gerbick	Trus Joist

Welcome to SEAI Wes!

DOMESHOUSES 'THE WAY OF THE FUTURE'

Excerpted from MSN Science & Technology News:

<http://news.ninemsn.com.au/article.aspx?id=94473>.

Dome-shaped houses built to withstand extreme weather like category five cyclones could begin sprouting across Australia within five years, engineers say.

The Queensland University of Technology (QUT) and NSW-based company DomeShells Technology have developed a new building technique which combines the strength of the dome shape with "composite panel technology" – one of the strongest building techniques available.

The dome houses can be erected in as little as two weeks.

Grant Gaston, a structural engineer and QUT PhD student, said the dome shape allowed stress created by strong winds to be distributed across the entire building, eliminating structural damage.

2006 IDAHO LICENSURE EXAMS

April 21	PE and PS Examinations	Boise
April 22	FS (aka LSIT) Examination	Boise Pocatello Moscow
April 22	FE (aka EIT) Examination	Boise Pocatello Moscow
October 27	PE and PS Examinations	Boise
October 28	FS (aka LSIT) Examination	Boise Pocatello Moscow
October 28	FE (aka EIT) Examinations	Boise Pocatello Moscow

<http://www.ipels.idaho.gov/calendarofevents.htm>

UPCOMING SEMINAR

The 2006 SEA Northwest Conference is being hosted by SEA/O. The conference is being held at the Skamania Lodge in the Columbia River Gorge July 20–22. The theme is "Engineering in the Land of Earth, Wind, and Ice" presentation topics and speakers will be announced in future newsletters.

In the next few months, SEAI's website will be getting a new look. Please send content suggestions, links and useful files to Tyler Haney at thaney@tveinc.com

MEETING RECAP – MARCH 21, 2006

By Ash Hobbs, P.E.

Our March SEAI meeting began with a presentation by Ed Huston, director for the National Council of Structural Engineer Associations (NCSEA), on the council's 5-year strategic goals for 2006 to 2010. Some of the goals presented are as follows:

- Become the premier national organization for Structural Engineers.
- Promote the concepts of Quality Based Selection (QBS) and Value Based Practice.
- Promote uniform SE Practice Acts.
- Improve building codes.
- Establish a code of ethics for SE's.
- Help facilitate establishment of a National Emergency Response Network.
- Improve and strengthen membership.

If you would like more information about NCSEA and their latest efforts, you can get more information at <http://www.ncsea.com>.

We then heard from Kent Soelberg, SE from CH2M Hill and SEAI director, who gave a presentation on working with existing buildings, including their alteration, repair, addition, and/or change of occupancy. According to 2003 IBC chapter 34 and sections 1614.1, 1614.2, and 1614.3, additions, change of occupancy, and alterations require that the structure be upgraded to the current code provisions for force, strength, and performance, unless the seismic force isn't increased in the existing structure by more than 5%, the strength of the existing structure isn't decreased by more than 5%, and any additions are designed and detailed as new structures.

The City of Boise has adopted the 1997 Uniform Code for the Abatement of Dangerous Buildings, which lists 18 building defects that may require relief if one of those defects endanger life, health, property, or safety of the public. Acceptable relief is subjected to the Building Official; however, Boise has also adopted the 1994 Uniform Code of Building Conservation (UCBC), which may include acceptable remediation methods. Other possible resources for building remediation include the 1997 UCBC, the 2003 International Existing Building Code, FEMA 273 NEHRP Guidelines for the Seismic Rehabilitation of Buildings, and SEI/ASCE 31-03 Seismic Evaluation of Existing Buildings.

Finally, Kent shared with us some pictures of existing buildings that he's worked on and some of the lessons he's learned from working on them. He recommends including redundancy in designs, using more small fasteners and reinforcing bars instead of fewer large fasteners and reinforcing bars in designs, and including additional safety factors to account for unforeseen construction issues.

SEAI would like to thank Kent Soelberg for his presentation. If you have a question for Kent regarding his presentation, you can email him at Kent.soelberg@ch2m.com.

As a benefit for our members, SEAI is now accepting employment advertisements in our monthly publication.

Please contact Sarah McClendon at sarah.mcclendon@mcm-eng.com or 342-4214 x306 for submission guidelines and rates.



“Bridges are America’s
cathedrals.”

Unknown

The SEAI Newsletter is published monthly. All newsletter submissions are welcome from the SEAI community. Have a suggestion, feature, link or product review? Would you like to recommend a SEAI member for an interview in our next newsletter?

Please contact our newsletter editor
Tyler Haney at
thaney@tveinc.com

EVENT CALENDAR

(Events are subject to change)

April 18th – Lunch event at Yen Ching, downtown Boise.

April 21st – Professional Engineer Exam in Boise, Pocatello, Moscow

April 22nd – FE/EIT Exam in Boise

July – The 2006 SEA Northwest Conference at the Skamania Lodge in the Columbia River Gorge July 20–22. Hosted by the Structural Engineers Association of Oregon.

August – New AISC Specification/Manual Seminar in Boise, ID. “Design Steel Your Way with the 2005 AISC Specification.” For more information see the AISC website www.aisc.org (this is not a SEAI sponsored event)

THE STRUCTURAL ENGINEERING COMMUNITY

American Institute of Steel Construction – <http://www.aisc.org/>
 American Society of Civil Engineers – Southern Idaho – <http://sections.asce.org/sis/>
 American Society of Civil Engineers, Olympia/Tacoma WA – <http://sections.asce.org/tacoly/tacoly.htm>
 Applied Technology Council – <http://www.atcouncil.org>
 Board of Professional Engineers and Land Surveyors – <http://www2.state.id.us/ipels/>
 Building Seismic Safety Council – <http://www.bssconline.org>
 City of Boise Sp. Insp. Checklist – http://www.cityofboise.org/pds/applications/Building/Special_Inspections.pdf
 Design Build Magazine (McGraw-Hill) – <http://www.designbuildmag.com/>
 Engineering Forum – <http://www.eng-tips.com/>
 Engineering News Record – <http://www.enr.com>
 State of Idaho Code – <http://www.ipels.idaho.gov/>
 Structural Engineering Institute (ASCE) – <http://www.seinstitute.org/>
 Structural Engineers Association International – <http://www.seaint.org/>
 Structural Engineers of Oregon – <http://www.seao.org/main.htm>
 Structural Engineers Association of Utah – <http://www.seau.org/>
 Structural Engineers Association of Washington – <http://www.seaw.org/>