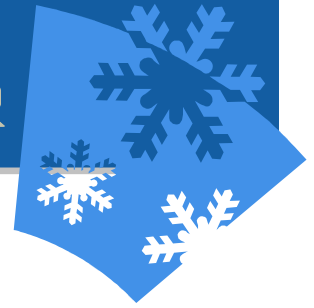




SEAI NEWSLETTER



Structural Engineers Association of Idaho

P.O. Box 8733, Boise, ID 83707

www.seaidaho.org

BOARD OF DIRECTORS & COMMITTEE CHAIRS

Happy Holidays from SEAI!

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.

President

Shawn Reeder – Performance Engineers
shawnr@idahotruss.com 888-5200

Vice-President

Sarah McClendon – McMillen Engineering
sarah.mcclendon@mcm-eng.com 342-4214 x306

Treasurer

Chris Holladay – AHJ Engineers
cholladay@ahjengineers.com 323-0199

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Patrick Bird – Lochsa Engineers of Idaho
Patrick@lochsaidaho.com 342-7168

Director

Kent Soelburg – CH2M Hill
Kent.soelberg@ch2m.com 383-6349

Director

Greg Leishman – Stapley Engineering
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Past President

Steve Call – Call Engineering
scall@callengineering.com 321-2656

Program/Seminar Chair

Wilson Antoniuk – Trus Joist
antoniw@trusjoist.com 395-2458

Membership Chair

Ash Hobbs – AHJ Engineers
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Building Code Chair

Mike Brown – EHM Engineers
Mike.brown@ehmengineers.com 386-9170

QBS Representative

Scott Soule – Treasure Valley Engineers
ssoule@treasurevalleyengineers.com



For your SEAI Wind Design Seminar attendance certificates, please contact Pat Bird by calling him at 342-7168 or emailing him at patrick@lochsaidaho.com.

SEAI LUNCH MEETING EVENT – JANUARY 17TH

“Leadership, Involvement, and Visibility: Reaching Your Highest Level.”

Presented by: Richard Weingardt of *Structural Engineer Magazine*



An outspoken activist challenging engineers to step forward to be heard, Weingardt has long served in leadership roles in both engineering and community groups. He coined the adage, "the world is run by those who show up."

As the national president of the American Consulting Engineers Council, he instigated an in-depth, industry-wide study resulting in the publication of ACEC's I-Book: Seeing Into the Future, an in-depth analysis of engineers as societal leaders. (Weingardt was editor-in-chief and authored several chapters in the book.)

<http://www.richardweingardt.com/>

COST PER PERSON

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

PLACE:

Owyhee Hotel
1109 Main Street
Boise, Idaho 83702
343-4611

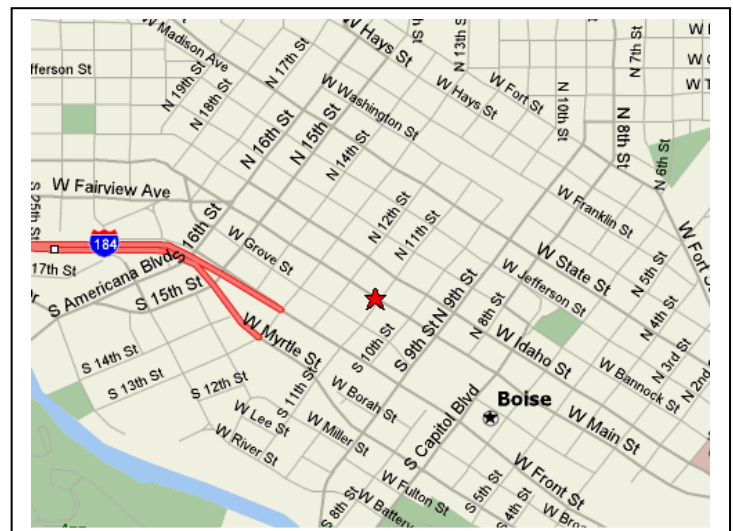
<http://www.owyheeplaza.com/>

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 Sarah McClendon at 342-4214 x306 (leave message if unavailable) or email at sarah.mcclendon@mcm-eng.com

PLEASE NOTE THAT OUR MEETING LOCATION HAS CHANGED TO THE OWYHEE HOTEL



BY THE WAY...ENGINEERING NEWS AND GENERAL INTEREST

FEMA

Did you know that FEMA offers free courses online?

FEMA Independent Study Program: IS-279
Engineering Principles and Practices for Retrofitting Flood-Prone Residential Structures
<http://www.training.fema.gov/EMIWeb/IS/is279.asp>

FEMA Independent Study Program: IS-8 *Building for the Earthquakes of Tomorrow: Complying with Executive Order 12699* - this course is a non-technical discussion of earthquake compliance. This could be beneficial for senior administrative staff or contract managers in your company.
<http://www.training.fema.gov/EMIWeb/IS/is8.asp>

Speaking of FEMA, did you know that the seismic design provisions of the 2003 IBC are based on the 2000 NEHRP (National Earthquake Hazards Reduction Program) Recommended Provisions?
<http://www.fema.gov/hazards/earthquakes/nehrp/>

For Idaho specific information, see
http://www.fema.gov/hazards/earthquakes/nehrp/state_id.shtm

UPCOMING SEMINAR

Earthquake Engineering Research Institute Presents "Evaluation of Existing Reinforced Concrete Buildings"

- San Francisco January 12,
- Seattle February 10
- Los Angeles February 13

https://eeri.org/news/meetings/05_tech_seminar_registration.php

SALARY SURVEY

Structural Engineers Association International Salary Survey by experience
<http://www.seaint.org/salarysurvey.htm>

SEISMIC PROVISIONS

The 2005 AISC Seismic Provisions for Structural Steel Buildings dated March 9, 2005, including Supplement No. 1 dated November 16, 2005, has been posted on the AISC web site (www.aisc.org). Please look under "News" on the home page and click on the link: [New 2005 AISC Seismic Provisions Now Available For Free Download](#) for the press release and to download the file.

The new standard will be available in hard copy format in the near future.

CONTRACTOR REGISTRATION

All Contractors need to be registered with the state of Idaho by January 1, 2006.

In the 2005 Legislative Session, a new bill was passed that requires Contractor Registration with the state. That bill exempts contractors who have a public works license from needing to register, to legally perform work for public agencies. Otherwise, it will be unlawful for any person who engages in a construction job with a dollar amount exceeding \$2000.00 (materials & labor) and is not otherwise exempt to work as, or hold yourself out as, a contractor in the state of Idaho after January 1, 2006.

For additional information, including Governor Kempthorne's letter regarding the Contractor's Registration Act, go to:
<http://www.ibol.idaho.gov/cont.htm>



SEVEN-STORY BUILDING AT UCSD RATTLED ON LARGEST EARTHQUAKE SHAKE TABLE IN U.S.

November 22, 2005 – In a first-of-its-kind earthquake test, UCSD engineering researchers on Nov. 22 subjected a 275-ton, seven-story building to mechanical shakes that duplicated ground motions recorded during the Jan. 17, 1994, Northridge earthquake. The test was the first in a series of tests aimed at evaluating a variety of promising new designs that might improve the earthquake safety of apartment and condominium buildings and other residential structures in densely populated and seismically active regions in Los Angeles and Southern California.

Several months ago, workers used tall cranes and heavy equipment to construct the 65-foot-tall building at the Jacobs School of Engineering's Englekirk Structural Engineering Center, which is about 8 miles east of the university's main campus. Such a full-scale test had never before been possible because of weight, space, and technical limitations of smaller indoor shake tables.

The Nov. 22 test was designed to measure the performance of vertical reinforced concrete structural walls during strong earthquakes. In most of Southern California, structural walls are required by building codes to be strong enough to support about 30 percent of the building's total weight. However, the test building at UCSD included a wall with half the required amount of reinforcing steel in an optimized layout, which offered a high degree of seismic safety for a fraction of the

construction cost

"Our computational analyses suggest that shear walls could be designed with significantly less reinforcing steel and still protect life and property during rare, but strong earthquakes," said José Restrepo, a professor of structural engineering at the UCSD Jacobs School of Engineering and co-principal investigator of the project. "It may be that we are over-designing some of our buildings with expensive reinforcements that may actually provide very little increase in seismic safety."

UCSD News Release, used with permission from Jacobs School of Engineering.



NOVEMBER MEETING RECAP

Last month, we had a full house to hear Franklin G. Lee speak about lawsuits, trials, mediation, and arbitration in the construction industry. Prior to becoming an attorney, Frank held various positions in the architectural field and managed all phases of building design and construction. Currently, Frank provides services primarily focused on real estate transactions, entitlements, construction law, and corporate law.

Frank pointed out that there are several important questions that one should ask prior to agreeing to enter into any conflict resolution.

- *Will I be able to make my case?*
- *If arbitration is chosen, who is the arbitrator? Who pays for the arbitrator?*
- *Will I have discovery rights?*
- *Is the timeline reasonable?*
- *Will there be confidentiality?*

Some benefits to arbitration are that it costs less and they can be private and confidential. Arbitration is generally better for smaller cases and more advantageous to the party that is “ahead in the info curve” (e.g. contractors are ahead of engineers, and engineers are ahead of owners in information). Arbitration also has its pitfalls in that you don’t have the same rights as in a trial (for depositions or to cross-examine witnesses, for example), surprises may come up that you’re unprepared for, and that they tend to be settled in the middle, versus jury trials which tend to find guilt with one party. In contrast, mediation shouldn’t be entered without all parties present, and mediation should be avoided with someone who is either dishonest or going bankrupt.

If you have any questions regarding the conflict resolution clauses in your contracts, it would be wise to seek professional advice from an expert, such as Frank.

SEAI would like to thank Frank for his enlightening presentation.



QUALIFICATION BASED SELECTION

Why is QBS important?

Scott Soule: We're all concerned about the erosion of fees for the work we do. When firms choose to compete based on price, the ramifications are significant. Inevitably the work is rushed, critical elements of design are missed, and short cuts are taken which result in higher construction costs and greater liability. The alternate effect of lower fees is salaries which don't keep up with the rate of inflation and ultimately a decrease in the caliber of individual we are able to attract to this industry. Both scenarios do not bode well for the industry or for the health and welfare of the general public.

A better way to compete is based on quality of work and competency to perform the service. If we create an expectation with our clients and in ourselves that we first and foremost have an obligation to meet and exceed levels of excellence, our interests are much better served.

QBS is an organization dedicated to preserving and promoting this second option. I look forward to achieving the goals of SEAI through my service to this group. Thank you for the opportunity.

SEAI welcomes Scott Soule, former president, as our new QBS Representative.

CRITICAL LEADERSHIP SKILLS

8 Leadership Competencies

Are you prepared to lead? Whether your next leadership task involves organizing a project, leading a team or taking on a bigger, broader role, you'll want to be sure you're on the right track with eight essential skills.

Center for Creative Leadership (CCL) research based on data from 36,000 bosses surveyed found eight competencies commonly considered to be most important for success in organizations. "The majority of managers at all levels in organizations saw these skills as key levers for effectiveness," says CCL's Sylvester Taylor.

The top eight competencies:

1. **ability to lead employees**
2. **resourcefulness**
3. **decisiveness**
4. **ability to manage change**
5. **straightforwardness and composure**
6. **building and mending relationships**
7. **doing whatever it takes**
8. **employing a participative management style**

Too Much of a Good Thing: Beware of Your Strengths Essential Leadership: Critical Skills
<http://www.ccl.org/leadership/enewsletter/current.aspx?pageId=303>

Center for Creative Leadership, CCL's Leading Effectively e-Newsletter, used with permission.

EVENT CALENDAR

(Events are subject to change)

January - Richard Weingardt of *Structural Engineer Magazine* will present on "Leadership, Involvement, and Visibility: Reaching Your Highest Level."

February - Wood Design Seminar at Boise State University Student Union Building (see attached flyer)

March - TBD

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, Allie Smith-Hobbs at alliesmithhobbs@yahoo.com



THE STRUCTURAL ENGINEERING COMMUNITY

Applied Technology Council – <http://www.atcouncil.org>

Board of Professional Engineers and Land Surveyors – <http://www2.state.id.us/ipels/>

Design Build Magazine (McGraw-Hill) – <http://www.designbuildmag.com/>

Engineering & (Bi-Weekly Newsletter) – <http://www.engineeringand.com>

Engineering Forum – <http://www.eng-tips.com/>

Structural Engineers Association International – <http://www.seaint.org/>

Structural Engineers Association of Utah – <http://www.seau.org/>

Structural Engineers Association of Washington – <http://www.seaw.org/>



1-Day Wood Design Seminar

- Date:** Tuesday, February 21, 2006
Location: Boise State University, Student Union Building, Boise, Idaho
- Presenters:** Robert J. Taylor, PhD, P.Eng, M.ASCE, Assoc.AIA
AWC Director, Technology Transfer
James D. Bowman, B.S., C.B.O.
AWC Northeast Regional Manager

The American Wood Council is the industry leader in development of standards for wood design and is an accredited continuing education credit provider with **AIA, IACET, AIBD, and ICC**. In this educational event, seminar participants will be able to see updates to codes and standards that affect wood structures, comprehend provisions of the 2005 NDS®, and be introduced to the Wood Frame Construction Manual 2001 National Edition for wind, snow, and seismic applications for One- and Two-Family Dwellings. Information on wood connection design philosophies and lateral load bracing will also be presented.

A 2005 NDS® and Supplement, and a seminar information package will be provided to each attendee (as noted) which includes a CD of all courses presented (fully scripted) and other useful wood design information and resources. Of interest to participants is the Wood Frame Construction Manual (WFCM) for One- and Two-Family Dwellings, 2001 Edition; an ANSI approved document that provides engineered and prescriptive requirements for wood frame construction based on dead, live, snow, seismic and wind loads derived from the 2000 International Building Code (IBC). Developed over a six-year period by AF&PA's WFCM/ANSI Canvass Committee, the WFCM represents a major milestone for the wood products industry. Designers and code enforcement officials now have one comprehensive design reference to provide solutions for residential wood construction, which is increasingly being regulated, especially in higher load regions.

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Program Schedule

Feb. 21 AM	Building Codes and Wood Design
9:00 – 9:30 am	Registration & Check in
9:30 – 10:30 am 1.0 hrs	<i>Building Code Update</i> Recognize the latest changes impacting wood design and construction in major model building codes including: ICC's International Building Code (2000 and 2003 editions), ICC's International Residential Code (2000 and 2003 editions), and NFPA's NFPA 5000 Building Code. Limited discussion of 2006 changes to the I-Codes will be offered.
10:30 – 12:00pm 1.5 hrs	<i>Wood Structural Design in the International Building Code 2003</i> A layout of how structural wood provisions are presented in the IBC 2000 and 2003; Chapter 23 in particular. Course also covers how AF&PA documents are referenced.
12:00 – 1:00 pm	Lunch
Feb. 21 PM	Wood Design Standards and Wood Product Applications
1:00 – 2:30 pm 1.5 hrs	<i>ASD and LRFD with the 2005 National Design Specification for Wood Construction</i> The NDS® for Wood Construction 2005 is a dual format ASD and LRFD document with some enhancements from the 2001 version. Learn about the format of the new document and how to apply its ASD and LRFD design provisions to wood construction through worked examples.
2:30 – 2:45 pm	Afternoon Break
2:45 – 3:45 pm 1.0 hr	<i>The Wood Connection Session</i> This session presents current wood connection design philosophy, behavior, serviceability issues, and connection design techniques for small and large wood members, panel products, and wood assemblies, using dowel-type and specialized components. Glued connections will also be discussed along with a brief introduction to connection design software.
3:45 – 5:00 pm 1.75 hrs	<i>Lateral Load Bracing</i> Learn in depth about the general concept of bracing wood structures and in detail about the IRC requirements for wall bracing. Construction types and the behavior of small structures and structural elements under gravity, seismic and wind forces. Principles and typology of lateral load resistance systems will be discussed including prescriptive braced wall lines as addressed by the IBC/IRC. An introduction to engineered shear wall design, location, and inspection points will be offered, along with the 2001 Wood Frame Construction Manual (WFCM).



STRUCTURAL ENGINEERS ASSOCIATION OF IDAHO

P.O. Box 8733
Boise, Idaho 83707

1-Day Wood Design Seminar Feb. 21, 2006; Boise, Idaho

This 1-day wood design seminar is being sponsored by SEAI, the Structural Engineers Association of Idaho. SEAI is a non-profit organization for structural engineers, whose goals are as follows: to provide an active association for better acquaintance and understanding among engineers; to encourage practice with ethical standards; to promote the highest standards of structural engineering to the end that the best interest of the client, the community, the public, and the profession will be served, and to cooperate with other professional organizations. For more information on SEAI, including information on how to join, please visit our website located at: <http://www.seaidaho.org>. To receive our FREE monthly newsletter, please email Ash Hobbs at ahobbs@ahjengineers.com.

Seating is limited at 65 persons for this event, and registrations will be accepted on a first come, first serve basis. If you have any questions regarding registration, please contact Ash Hobbs at ahobbs@ahjengineers.com or at (208) 323-0199x216. Questions regarding program information should be directed towards Wilson Antoniuk at antoniw@trusjoist.com or at (208) 395-2458.

Cancellation Policy: In the unlikely event that SEAI is forced to cancel a seminar, registrants will be entitled to receive a full refund or attend another seminar. Cancellations made by the registrant more than 15 days prior to seminars are subject to a \$10 administrative fee. No refunds will be issued for cancellations made within 15 days of a seminar.

Cut and return along with your check to the address above

WOOD DESIGN SEMINAR REGISTRATION FORM

Company Information

Name: _____
Address: _____

Contact Person's Information

Name: _____
 Phone #: _____
 Fax #: _____
 Email: _____

Please check one box above to indicate the preferred method of confirming registration.

Attendee's Name	Base Price ¹ (Select one per person)				Adjustments		SUBTOTAL
	Student ² (w/o NDS) FREE	Student ² (with NDS) \$38	SEAI Member \$125	Non-SEAI Member \$140	Late Registration ³ +\$10	Mult. Person Discount ⁴ -\$15	
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Check if more than 5 people (Attach a separate sheet with names and pricing)						Subtotal of attached sheet:	
						TOTAL PAYMENT:	

Please make all checks payable to *S.E.A.I.*

¹ Pricing includes **2005 NDS & Supplement** (except free student price), Lunch, Snack, Seminar Kit with Free AWC CD (including over 5000 pgs of documentation), two speakers from the AWC, and 7.0 CEU's.

² Submit a photocopy of a valid student ID with registration.

³ Late registration adjustment applies for each person if registration is postmarked after Feb. 13, 2006.

⁴ Multiple person discount adjustment applies for each person (students excluded) if 3 or more people are attending from the same company.