

SEAI NEWSLETTER



Structural Engineers Association of Idaho

P.O. Box 8733, Boise, ID 83707

www.seaidaho.org

BOARD OF DIRECTORS & COMMITTEE CHAIRS

Happy New Year 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.

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

Vice-President

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

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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
Gregl@stapley.net 375-8240

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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
ahobbs@ahjengineers.com 323-0199

Building Code Chair

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

OBS Representative

Scott Soule – Treasure Valley Engineers
ssoule@treasurevalleyengineers.com



SEAI LUNCH MEETING EVENT – JANUARY 17TH

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

Presented by: Richard Weingardt of *Structural Engineer Magazine*



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.owyheepiazza.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

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."

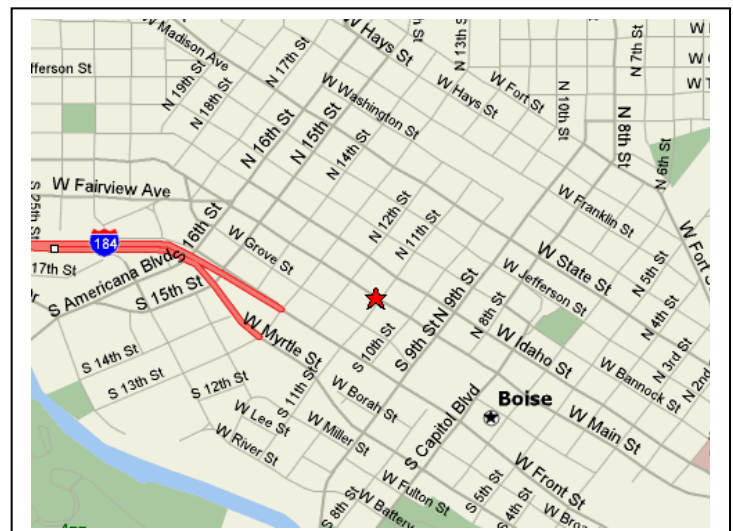
As the national president of the American Consulting Engineers Council, he instigated an in-depth, industry-wide study resulting in the publication of ACEC's I-Book: Seeing Into the Future, an in-depth analysis of engineers as societal leaders. (Weingardt was editor-in-chief and authored several chapters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

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

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

OUR MEETING LOCATION HAS CHANGED TO THE OWYHEE HOTEL



BY THE WAY...ENGINEERING NEWS AND GENERAL INTEREST

UPCOMING SEMINAR

The 2006 SEA Northwest Conference is being hosted by SEAO. 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.

WOOD FRAME BUILDINGS – LESSONS LEARNED FROM HURRICANE KATRINA

The *APA - The Engineered Wood Association* has released report SPE- 1125, which details some observations, conclusions, and recommendations from two teams of field investigators that studied the structural behavior of wood framed buildings in areas affected by Hurricane Katrina. The conclusions and recommendations of this study were as follows:

1. Non-structural wall sheathing is not adequate to resist design pressures expected along a hurricane coastline or in areas with lower estimated wind speeds of 100 mph, based on the observed damage and the estimated wind speeds shown in Figure 1 of this report. Costly water damage to building interiors and contents could be minimized by fully sheathing structures with wood structural panels in accordance with the requirements in the IBC and IRC for wall components and cladding.
2. All roof sheathing loss observed by the APA teams was due to attachment schedules or practices that did not meet even the minimum code requirements for any basic wind speed. For areas prone to

hurricane-force winds, such as most Gulf Coast regions, additional nailing above the tabulated, code minimum is required. Refer to *Roof Sheathing Fastening Schedules for Wind Uplift* (APA Form T325) and *Retrofitting a Roof for High Wind Uplift* (APA Form A410) for more information.

3. In coastal areas, high wind speeds often result in homes that are outside the scope of conventional construction provisions. Regardless, many structures that were built according to conventional construction provisions performed very well in the areas that experienced winds in excess of 105 mph.

You can download and read the report in its entirety at <http://www.apawood.org> (free registration is required).

TRAINING WORKSHOP

Simpson Strong-Tie Co. is sponsoring a products training workshop on its structural components connectors and systems in Boise on **Tuesday March 14, 2006**. The training, literature and lunch are provided at no cost to attendees.

Simpson requests that attendees register in advance. Attendees can register online at the following web address:

<http://www.strongtie.com/workshops/21/21schedule.asp?Site=>

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 - Simpson Strongtie products training (not a SEAI sponsored event).

July - The 2006 SEA Northwest Conference at the Skamania Lodge in the Columbia River Gorge July 20-22.

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.