



SEAI Mission Statement

“To promote and enhance the Structural Engineering profession in Idaho by educating the public about the activities of Structural Engineers and their benefit to society and by providing professional development and support to SEAI members that is relevant, reliable, and inspirational to modern engineering practices.”

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Message From the Board

By Jeff Hodson, President



Greetings! And welcome to a new year of SEAI. It is SEAI’s goal to provide benefits with our organizational framework that provide a positive impact for each of the members. But the organization really needs a broad base of participation for it to work well. So reach out and tell us what you want to see, what is working well, and what isn’t. Or better yet... get involved in a committee and provide an even bigger impact on what we’re doing as a group.

When I first started getting more involved in SEAI, it was primarily because I wanted to give back to my profession. But one of the greatest benefits that I’ve received is the good friends that I’ve made and relationships I’ve been able to form in the process. There are some mighty fine people in our professional community - get engaged, and you’ll be happy you had the chance to get to know them better!

Now I’m going to switch gears a bit. In my office, I keep a copy of Idaho’s “Laws and Rules Pertaining to the Practice of Professions of Engineering and Land Surveying.” (That totally makes me sound like a geek, right?) While I don’t reference it as often as my steel code, from time to time I do take that document off the shelf... usually when discussing with a colleague what the requirements are for

stamping documents. But earlier this summer, I found myself looking in the area called “Rules of Professional Responsibility” (IDAPA 10, Title 01, Chapter 02). These “Rules” start out by mentioning what every engineer knows: that our primary responsibility is to protect the safety, health, and welfare of the public. But then that statement is followed by more than four pages of specific principles and behaviors that we are charged to live by in our profession, such as:

- Being truthful in our communications with clients and the public.
- Performing assignments only within the field of our own professional competence.
- Communicating discrepancies, errors, or omissions of another engineer to that registrant directly and promptly.
- Never attempting to injure the professional reputation of another registrant or indiscriminately criticizing another’s work in public.
- Avoiding conflicts of interest, including giving or receiving gifts that could be construed as an effort to improperly influence award of contracts.
- Avoiding unfair advantage and work outside of regular employment (moonlighting).
- Never falsifying or misrepresenting our qualifications or exaggerating the degree of our own responsibility on a project.

Engineers are generally viewed as a very ethical group. In fact, a recurring Gallup poll asks the public how they would rate

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Message From the Board (Continued)

the honesty and ethical standards of people in different fields of work, and engineers consistently rank near the top - on par with medical doctors, nurses, and grade school teachers, and way ahead of business executives, lawyers, and even clergy.¹

But I don't think we should take that spot near the top of the ethical world for granted. We can lose our ethical skills, just like we can lose our technical skills, if we're not practicing them and discussing them. We are required to keep our technical skills fresh through continuing education, and some states even require that a certain number of hours of continuing education be dedicated to ethics. So here are a couple of suggestions for your consideration:

1. When is the last time you read the "Rules of Professional Responsibility"? After reading them for the first time in quite a while this year, I'd recommend it as an activity for all of us to undertake.
2. Reach out to others in your office or within SEAI to discuss ethical issues. Even though we like to think that things are black and white, the world is filled with gray areas and judgment calls. It's good to be able to talk to someone you trust.

As an organization, we're also going to try to keep a focus on ethics. That's why we're forming a new Ethics Committee within SEAI this year, and I've appointed Brian Garner to act as chair for that committee. We still need to flesh out what all the responsibilities will be for this position, but I hope you'll join me in the recognition that ethics is fundamental to our profession and should therefore have a defined spot within SEAI.

Thank you for your participation, and I hope your experience with SEAI is rewarding this year! 📌

Notes:

¹ If you're interested in seeing where other professions stack up in the poll (like car salesmen, telemarketers, and members of Congress), check out: <http://www.gallup.com/poll/1654/honesty-ethics-professions.aspx>

Committee Update – Andrew Miller, Membership Chair



It is hard to believe the summer is already winding down. I hope that you have all managed to get out and enjoy some of scenic Idaho this summer.

I would like to thank all the people who have renewed their membership. These dues help SEAI fund our

monthly lunch programs and speakers, all-day seminars, delegates attending chapter meetings, and paying our NCSEA dues. The monthly lunch meetings and full day seminars are a great way to fulfill continuing education requirements.

If you have not yet renewed I would like to remind you that in order to get the Structure magazine as part of the membership, we need to know by the first meeting in September. Other benefits of membership with SEAI are \$5 off the monthly lunch meetings, discounts on our upcoming seminars, discounts on code books, as well as the knowledge that you are contributing to the advancement of your professional organization. Please see attached flyers for renewal or first time application.

I look forward to seeing all of you at the meetings and seminars throughout the year. 📌



SEAI MONTHLY LUNCHEON

Topic: Geofoam -Uses and Limitations

Date: Thursday, 9/15/16

Time: Social—11:45 pm
Lunch & program—12 pm

Location: Cottonwood Grille
913 W. River St.
Boise, ID 83702

Cost: Member—\$20
Non-member—\$25

Speaker: Todd Barsanti

RSVP TO MATT BLAKE
mblake@axiompllc.com

Correction

In the “Message from the Board” in the March 2016 edition of the SEAI Newsletter, SEAI failed to include a source reference which was included at the end of the original article/message submitted to SEAI for publication. Here is the omitted source: *Jessica Mandrick, P.E., LEED AP and Jason McCormick, Ph.D., with the SEI Young Professionals Committee. Structure Magazine, November 2014.* SEAI apologizes for the oversight.

Geofoam—Uses and Limitations by Todd Barsanti

Presenter Biography:

Todd Barsanti is the local territory manager for Insulfoam, LLC. Todd has a bachelor’s degree in business administration from Cal State Sacramento. He has been with Insulfoam since 2006.

Presentation Overview:

Todd will be presenting on the use of geofoam in structural engineering projects. He will cover common applications and limitations of geofoam, as well as how to properly specify geofoam.

Code Corner

1603.1.3 Roof Snow Load Data

CHANGE TYPE: Modification

CHANGE SUMMARY: Two additional items related to snow load drifting are now required to be identified on the construction documents.

2015 CODE: 1603.1.3 Roof Snow

Load Data. The ground snow load, P_g , shall be indicated. In areas where the ground snow load, P_g , exceeds 10 pounds per square foot (psf) (0.479 kN/m²), the following additional information shall also be provided, regardless of whether snow loads govern the design of the roof:



Photo Courtesy of Peter Kulczyk

Flat-roof snow load, P_f .

Snow exposure factor, C_e .

Snow load importance factor, I .

Thermal factor, C_t .

Drift surcharge loads, p_d , where the sum of p_d and P_f exceeds 20 psf (0.96 kN/m²).

Width of snow drift(s), w .

CHANGE SIGNIFICANCE: Section 1603 requires specific structural-related information to be shown on the construction documents. Section 107 contains administrative provisions for submittal of documents that include construction documents as defined in Section 202. Including design assumptions and loading information on construction drawings is valuable to the owners and engineers who are tasked with evaluating or reevaluating existing structures. The two additional items pertaining to snow drifts supplement the snow load information already required and clarify how the registered design professional interpreted the design requirements related to snow drifting. In addition to other criteria, Section 1603 now requires snow drift surcharge and drift width to be indicated on the construction documents where applicable. 📌



This excerpt is from the Significant Changes to the International Building Code, authored by John Henry, PE, Jay Woodward and Doug Thornburg, AIA. The book is available at shop.iccsafe.org.

Employment Opportunities:

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POWER Engineers is hiring a structural engineer with 1 to 5 years of experience to join our Boise Power Generation team.

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- » Do you have AutoCAD experience?
- » Are you competent in 3-D structural analysis (STAAD PRO, RISA, or SAP)?

POWER is a 100% employee-owned company with 2,300 people across 45 offices throughout U.S. and abroad. Come live our credo: Do Good Work. Have Fun. Make Money.

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Structural Engineers
Association of Idaho
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UPCOMING EVENTS

- **October 15, 2016**
2017 IABSE Symposium Call for Papers
See Attached Flyer for Add'l Info
- **October 20, 2016 (Thursday)**
SEAI monthly luncheon at Cottonwood Grill
Topic: Noah's Ark project located in Kentucky
- **September 21-23, 2017**
2017 IABSE Symposium
Location: Vancouver, BC, Canada



For more information, visit Seaidaho.org

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