



### 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.”

March 2017

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## Committee Update – Eric Packer, Program/Seminar Chair



topic information already. If you have not, please, contact Eric Packer at [eric@veritas-structural.com](mailto:eric@veritas-structural.com). The seminar committee will always be an integral part of SEAI’s core mission and structure; and, if you are an SEAI member, please consider yourself a part of the committee. These are your seminars, this is your education. Your comments and participation are welcome and encouraged. Let’s keep learning together as if we will live forever! 🇺🇸

Mahatma Gandhi taught us well to “live as if you were to die tomorrow; learn as if you were to live forever.” Our profession demands that we constantly educate ourselves and the SEAI seminar committee’s primary goal is to make that education meaningful and valuable for SEAI members. The focus has been on ‘education’, not necessarily on meeting a specific number of PDH’s / CEU’s. To that end we have sought to bring a variety of fresh and engaging structural engineering topics to the recent seminars, each with a different focus. For example, the fall 2016 seminar - presented by APA & WoodWorks - addressed wood design while the upcoming spring seminar will focus on concrete design, including a code review of concrete sections and an overview of two-way slab design for wind and seismic applications.

Some powerhouse presenters limit their seminar tours to cities like Los Angeles, Seattle, Chicago, and New York City; but, we are proud to have Dr. S.K. Ghosh, Ph.D., come to Boise on April 25<sup>th</sup> to unload his knowledge of concrete code updates and seismic / wind design of two-way slabs. If you have never participated in one of Dr. Ghosh’s seminars you are in for a treat. Come prepared in April for an 8 hour feast of enlightening concrete design education. For those of you who do not think you can digest 8 hours’ worth of seminar, we are giving you the option of coming to either the morning or afternoon session for a reduced fee. You should have received registration and seminar



## SEAI MONTHLY LUNCHEON

**Topic:** Simplot Facade

**Date:** Thursday, 3/16/17

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

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

**Cost:** Member—\$20  
Non-member—\$25

**Speaker:** Rob Madsen, Devco Engineering

**RSVP TO MATT BLAKE**  
[mblake@axiompllc.com](mailto:mblake@axiompllc.com)

## Simplot Facade

Rob Madsen

### Presenter Biography:

Rob Madsen is a senior engineer with Devco Engineering and has specialized in cold-formed steel design since 1991. In addition to design work, Rob serves on committees for the American Iron and Steel Institute and the Cold-Formed Steel Engineer's Institute.

### Presentation Overview:

Rob Madsen with Devco Engineering will present on the basics of exterior wall design and will highlight the engineering aspects of the exterior wall for the Simplot World Headquarters Building in Downtown Boise.



## Code Corner

### 1613.6 Ballasted Photovoltaic Panel Systems

**CHANGE TYPE:** Addition

**CHANGE SUMMARY:** Seismic requirements for ballasted roof-mounted photovoltaic (PV) solar panels have been added to Section 1613.6.

**2015 CODE:** 1613.6 Ballasted photovoltaic panel Systems. Ballasted, roof-mounted photovoltaic panel systems need not be rigidly attached to the roof or supporting structure. Ballasted non-penetrating systems shall be design and installed only on roofs with slopes not more than one unit vertical in 12 units horizontal. Ballasted non-penetrating systems shall be designed to resist sliding and uplift resulting from lateral and vertical forces as required by Section 1605, using a coefficient of friction determined by acceptable engineering principles. In structures assigned to Seismic Design Category C, D, E or F, ballasted non-penetrating systems shall be designed to accommodate seismic displacement determined by nonlinear response-history analysis or shake-table testing, using input motions consistent with ASCE 7 lateral and vertical seismic forces for non-structural components on roofs.



vertical forces as required by the applicable load combinations using a coefficient of friction determined by acceptable engineering principles of mechanics. When installed on structures in Seismic Design Category C, D, E or F, ballasted non-penetrating systems must be designed to accommodate seismic displacement determined by nonlinear response-history analysis or shake-table testing, using input motions consistent with the non-structural component requirements of ASCE 7. A definition of “photovoltaic panel system” has been added to Section 202, and new Section 1603.1.8 adds requirements for including dead load of rooftop-mounted PV solar panels on the construction documents. A new Section 1607.12.5 adds loading requirements for roof structures supporting PV panel systems.

**CHANGE SIGNIFICANCE:** Ballasted roof-mounted photovoltaic (PV) panel systems are not required to be rigidly attached to the roof or supporting structure. Non-penetrating ballasted panel systems are only allowed to be installed on roofs with slopes less than or equal to 1:12. The systems must be designed to resist sliding and uplift resulting from lateral and



*This excerpt is from the Significant Changes to the International Building Code, authored by John*

## Boise Women in AEC Speed Mentoring Event—March 16, 2017:

Speed Mentoring at CSHQA  
March 16, 2017 5:00pm—7:00pm

*Join us for a night of speed mentoring at CSHQA. Our esteemed mentors have over 200 years of combined industry experience. For More Information, check the Boise Women in AEC website:*

<https://sites.google.com/view/boisewomeninaec>

*RSVP to Katie Walker or Ashley Thompson.*

# SPEED MENTORING

**JOIN US AT:**

**CSHQA**  
200 W BROAD ST, BOISE, ID 83702

**MARCH 16, 2017**  
**5:00PM - 7:00PM**

MEET OUR MENTORS:

Jan Douglas  
ASSOCIATE  
KPF CONSULTING  
ENGINEERS

Jan is a licensed structural engineer with 30 years of industry experience.



Lindsay Erb  
ASSOCIATE  
CTA GROUP, INC.

Lindsay is a licensed architect with 16 years of industry experience.



Anita Keil  
DIRECTOR OF  
PRECONSTRUCTION  
ESI

Anita is the director of preconstruction at ESI with 22 years of industry experience.



Patty Norberg  
DIRECTOR & MANAGING  
ARCHITECT  
CSHQA

Patty is a licensed architect and principal at CSHQA with 30 years of industry experience.



Jan Welch  
PRESIDENT  
STAPLEY ENGINEERING

Jan is a licensed structural engineer with 35 years of industry experience.



Dani Paxson  
ASSOCIATE  
KPF CONSULTING  
ENGINEERS

Dani is a licensed structural engineer with 24 years of industry experience.



Brooke Stevenson  
DETAILING MANAGER  
RULE STEEL

Brooke is the detailing manager at Rule Steel fabrication shop with 16 years of experience.



Brook Thornton  
PARTNER  
LKV ARCHITECTS

Brook is a licensed architect with 12 years of industry experience.



Amy Docker  
DIRECTOR & PRINCIPAL  
CSHQA

Amy is a licensed electrical engineer with 20 years of industry experience.

**BOISE WOMEN IN AEC**



Structural Engineers  
Association of Idaho  
P.O. Box 8733,  
Boise, ID 83707

### WISH TO PLACE AN AD IN THE NEWSLETTER?

Contact our Treasurer, Joe Stippel,  
at [jstippel@idahopower.com](mailto:jstippel@idahopower.com)  
or (208) 287-0205.

### Monthly Rates for Advertising

Standard Business Card..... \$50  
Quarter Page..... \$90  
Half Page..... \$120  
Full Page..... \$150

*10% discount for ads running  
multiple months*

## UPCOMING EVENTS

- **March 16, 2017 (Thursday)**  
SEAI monthly luncheon at Cottonwood Grill

- **April 25, 2017 (Tuesday)**  
SEAI 2017 Spring Seminar: Concrete Design

We are excited to have S.K. Ghosh as our spring seminar presenter. Many of you have attended his seminars in the past and have been greatly enlightened and instructed. This year's seminar promises the same.

SEAI 2017 Spring Seminar: Concrete Design

Presented By: S.K. Ghosh, Ph.D.

When: Tuesday April 25th

Where: Idaho AGC, Boise

Morning Session: Overview of ACI 318-14 and the Concrete Chapter of the 2015 IBC

Afternoon Session: Wind and Seismic Design of Two-Way Reinforced Concrete Slab Systems

Registration information will be sent out shortly. Contact Eric Packer with questions at [eric@veritas-structural.com](mailto:eric@veritas-structural.com).

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