

SEAI NEWSLETTER

Sept. 2009



Structural Engineers Association of Idaho

P.O. Box 8733, Boise, ID 83707

www.seaidaho.org

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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SEAI MEETING — SEPT 17TH — THURSDAY



Please **RSVP** to Leif Elgethun at leifelgethun@yahoo.com or at 301-2293 by **noon the Monday before the meeting with your entrée selection.** We will turn no one away at the door, but if we do not receive your RSVP on time we cannot guarantee that there will be any food for you to eat! Please note that, regardless of whether you eat or not, you will still need to pay meeting fees, so get those RSVP's in! **Also, if you RSVP and decided not to show, Murphy's will still charge SEAI for your lunch and SEAI will politely pass this charge on to you.**

Murphy's will be sponsoring a monthly drawing for a complimentary Sunday Brunch Pass for 2 (\$32.00 value). Everyone who attends will have their name entered from the sign up sheet, and the prize will be awarded at the end of the luncheon. All you have to do is show up for a chance to win!

Meeting Location:

Murphy's Seafood & Steakhouse
1555 Broadway Ave.
Boise, ID 83706
www.primedime.com

Food Entrées:

- 1) Chicken Caesar Salad
- 2) Whiskey Chicken
- 3) Beef Chop Burger

Meeting Focus:

Existing Concrete Structures

Speaker:

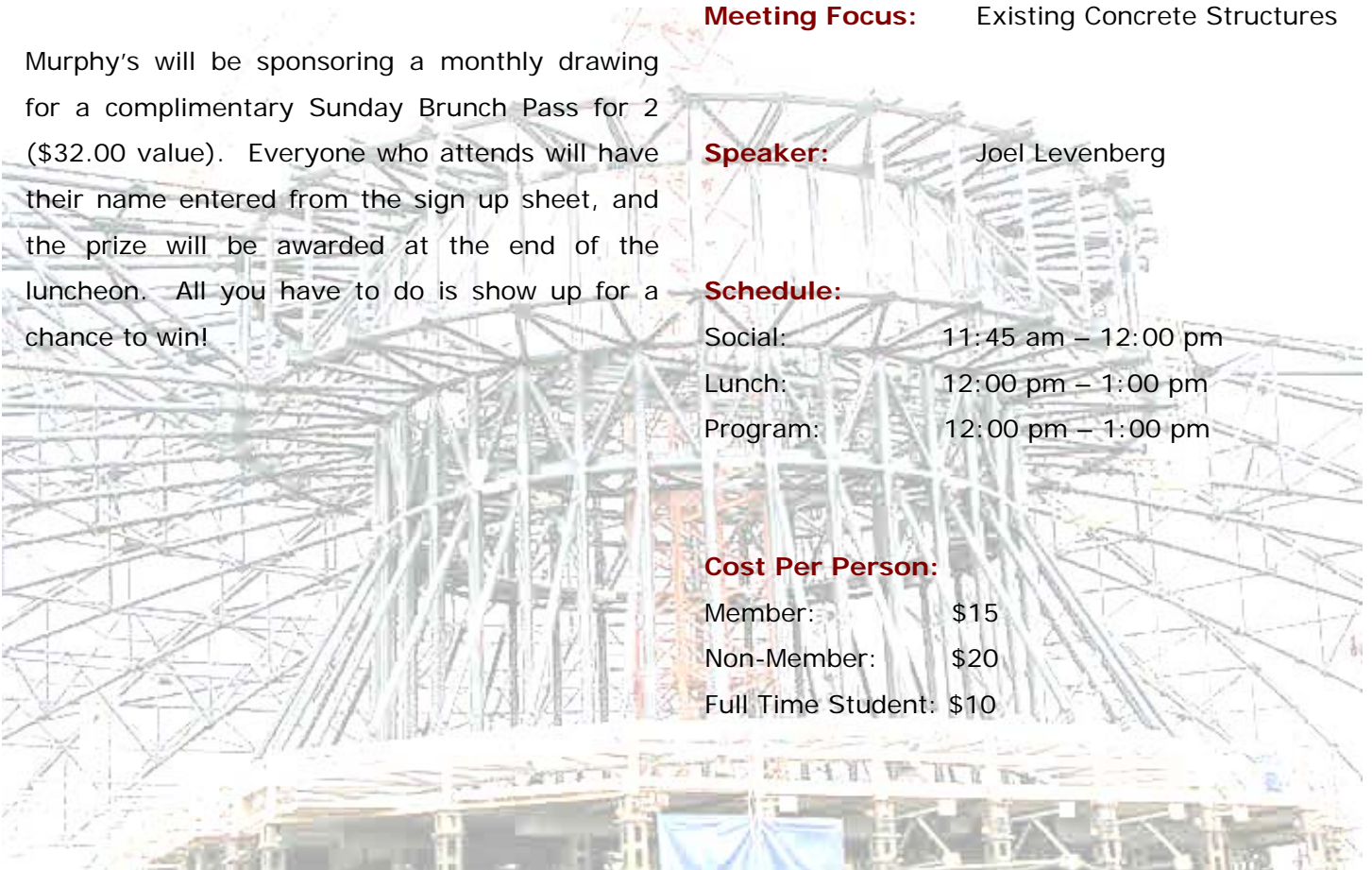
Joel Levenberg

Schedule:

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

Cost Per Person:

Member:	\$15
Non-Member:	\$20
Full Time Student:	\$10



Announcements:

MEETING ABSTRACT & AGENDA

Although the upgrade of concrete structures is somewhat of a “scientific art” that has been practiced for many years it has evolved into a complex science that requires a blend of engineering, material science and construction perspectives. Projects may utilize traditional materials such as conventional cement-based and steel materials as well as advanced composite materials (FRP’s) commonly used for aerospace applications. As the techniques to properly design and install these materials for retrofit applications are not common to the engineering and general construction industry, they can cause strengthening projects to be even more challenging and complex than new construction.

There are many factors that create the need for strengthening. They include construction and design errors, increase in live load, new code requirements, low concrete strength, voids created during concrete placement, new penetrations and prevention of progressive collapse from blast loads. Unfortunately, the speed at which new construction projects are being completed today also contributes to some of these issues.

This presentation will describe the different techniques, materials and design concepts used for upgrading concrete structures. Special emphasis will be placed on strengthening with FRP composites- specifically design approach

based on the latest ACI 440 (FRP) guidelines, installation methods, fire resistance, testing and QC. The use of each technique will be illustrated through actual case studies.

SPEAKER BIO

Joel Levenberg serves in the strengthening business development role with Structural Group. He has 8 years of construction experience in the repair/strengthening of commercial and industrial facilities. He has been involved in numerous concrete repair and strengthening projects. Joel is a graduate of the University of Colorado and is a member of ASTM committee and the International Concrete Repair Institute.

MEETING AGENDA

1. Factors affecting the performance or capacity of reinforced concrete?
 - Construction or design errors
 - Missing, misplaced or damaged reinforcement
 - New live loads
 - Voids or Honeycombs created during placement
 - Cutting of new penetrations that affect existing reinforcement
2. Techniques, materials and design strategies utilized for strengthening
 - A. Strengthening Techniques covered
 - External Post Tensioning
 - Adding additional concrete- Section enlargement and bonded overlays
 - Adding Supplemental steel supports and span shortening
 - Externally bonded FRP sheets and rods (per ACI 440- FRP Guidelines)

- B. ACI standard repair techniques for voids and honeycombs
- C. Techniques for strengthening around new penetrations
- D. Case Studies

LET YOUR MEMBERSHIP WORK FOR YOU!

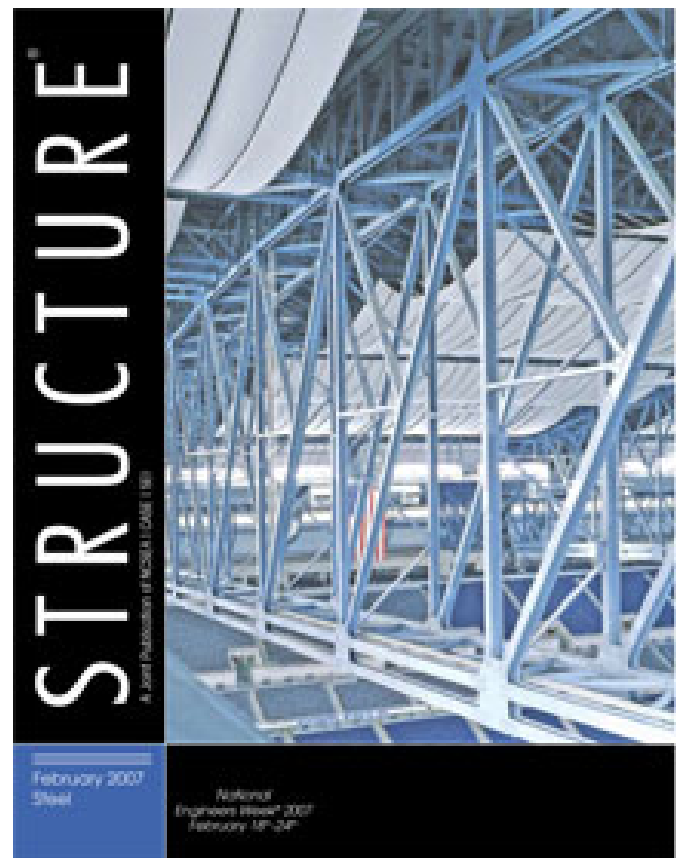
We are looking for more speakers for our SEAI luncheon meetings. If you have any suggestions for future speakers, items of discussion or anything else that you think would be beneficial to the structural engineers attending SEAI meetings, please send your comments and ideas to Leif Elgethun by email at leifelgethun@yahoo.com or by phone at 301-2293.

STEEL DAY 2009

See page 7 of the newsletter for information on Steel Day 2009 being held at Rule Steel in Caldwell.

STRUCTURES MAGAZINE!

As part of your SEAI membership you should be receiving **STRUCTURE® magazine** in the mail every month. If you are not, please verify that you have paid your SEAI dues this year and then send your name and mailing address to Sarah McClendon at sarah@mcclendonengineering.com



JOIN US FOR OUR
FAMOUS
2-FOR-1
HAPPY HOUR!

Sunday–Friday: 4–7pm
Saturday: Noon–7pm

Featuring Drafts
and House Wine
& Well Drinks
Plus 2-for-1 Appetizers



MURPHY'S
— SEAFOOD & STEAKHOUSE —

EVENT CALENDAR

- Sept. 17, 2009 Joel Levenberg, Structural Group – Strengthening Div.
- Oct. 15, 2009 Tony Peterson, PNA Construction Technologies

PAST EVENTS

- May 21, 2009 Larry Boyer, Vulcraft, Steel Joists
- Apr. 16, 2009 Eric Pugmire, Simpson Strong-Tie, New Products
- Mar. 19, 2009 Michael Mulnix, Hardy Frames, New Products
- Feb. 19, 2009 Holly Schaubert – Verco Steel Decking
- Jan. 15, 2009 Frank Lee – Givens Pursley, Engineering Liability Law
- Nov. 20, 2008 Kent Soulberg – NCSEA Conference
- Oct. 16, 2008 Reese Leavitt – Wells, NV Earthquake Inspections
- Sept. 18th, 2008 David L. Curtis – Cont. Prof. Development
- May 15, 2008 Boise Fire Dept.

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

If so, please contact our Treasurer, Wilson Antonuik , at antoniW@redbuilt.com or 395-2458.

Monthly Rates for Advertising

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

10% discount for ads running multiple months

**GET INVOLVED WITH
YOUR NEWSLETTER!**

The SEAI Newsletter is a monthly publication. Newsletter submissions are encouraged from the SEAI community. If you have a suggestion, feature, link, product review or anything else that may be of interest to the newsletter readers, please email them to our newsletter editor, David Sansotta, at david.sansotta@core-engineering.net

STRUCTURAL ENGINEERING LINKS

FEATURED LINK: *“Structures are held up by both luck and skill”* By Ken Carper
<http://www.djc.com/special/const97/10023874.htm>

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

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

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 & (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/>

Structural Engineers of Oregon - <http://www.seao.org/main.htm>

Structural Engineers of Idaho - <http://www.seaidaho.org>

Design Load Guidelines – <http://www.idabo.org/loads.htm>



September 18



THERE'S ALWAYS A SOLUTION IN STEEL.

ATTENTION:
Architects, Contractors,
Developers and Owners

JOIN US FOR A RARE OPPORTUNITY...

Rule Steel and Lochsa Engineering invite you to **join us for a guided tour of the Rule Steel fabrication facility** in Caldwell.

WHEN: Friday, Sept. 18th from 10am - 12pm

WHERE: Rule Steel - 21986 Middleton Road, Caldwell, ID 83605

Why You Don't Want to Miss This:

- **Networking** opportunities
- Gain hands-on knowledge of how structural steel is **sustainable, readily available, fast and efficient.**
- Interact with steel industry experts - **ask questions, witness processes.**
- Learn how the steel industry remains on the forefront of technology with its **advanced use of BIM and cutting edge machinery.**
- Understand the value of working with an AISC Certified fabricator - **Rule Steel is the only AISC Certified fabricator in the Treasure Valley.**

Certificates will be sent to all attendees for CEU credit

RSVP to Deborah Olson at Lochsa Engineering before Wed. 9/16
208-342-7168 or Deborah@Lochsaidaho.com



LOCHSA ENGINEERING
CIVIL • STRUCTURAL • TRANSPORTATION
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