



EQUILIBRIUM

September 2018

Newsletter of the Seattle Chapter
Structural Engineers Association of Washington

Seattle Chapter Leadership

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Seattle Chapter September Dinner Meeting

Topic: The Spheres



Tuesday, September 25, 2018
5:30 pm to 8:15 pm

Hotel Monaco

1101 Fourth Avenue
Seattle, WA 98101

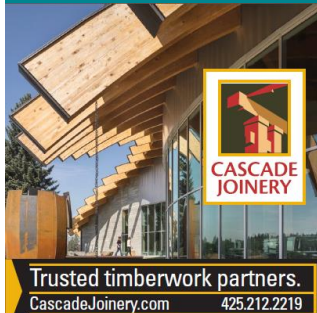
Register Today!

“The Spheres are three intersecting steel-and-glass orbs enclosing five freestanding floors and serving as the centerpiece of a new urban corporate headquarters in downtown Seattle.”

Main topics will include:

- The origins of the project and the architectural vision
- The development of the steel structure’s unique geometry was a highly collaborative effort between architect, engineer, façade consultant, fabricator, detailer, erector, and general contractor; the presentation will give specific examples of how collaboration improved the final result

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- A discussion of the role parametric modeling played in the architectural design, structural analysis, and steel detailing
- The unusual challenges posed by the unique structure

Benefits and knowledge our members can expect to take away from the presentation:

- The latest steel detailing and fabrication techniques
- A case study of the successful execution of a collaborative, design-assist-based project delivery method

Speaker: Marne Zahner P.E., S.E.

Senior Design Engineer

Magnusson Klemencic Associates

Marne Zahner, P.E., S.E., is a Senior Design Engineer at Magnusson Klemencic Associates (MKA). He is a key member of MKA's Convention Center Specialist Group and active in the firm's Advanced Geometry and Vibrations Technical Specialist Teams. A graduate of Vanderbilt University and MIT, he has worked on high-profile projects around the world, including San Francisco's SFMOMA Expansion, Singapore's Marina One office towers, and New York City's Javits Center Expansion. He is currently the project engineer for the Las Vegas Convention Center's 1.0 million square foot expansion.

Agenda:

5:15 pm – 6:00 pm Registration/Networking
 6:00 pm – 6:30 pm Dinner
 6:30 pm – 6:50 pm Committee presentation: Wind Committee.
 Scott Douglas, Chair
 6:50 pm – 7:00 pm Welcome/Announcements
 7:00 pm – 8:15 pm Program

Registration Fees:

\$45 - Members (\$40 early bird)
 \$50 - Non-members & Guests
 \$35 - YMG (\$30 early bird)
 \$15 - Students

Register Today!

Early bird rates end February 21. YMG rate applies to Engineers under 35 for both members and non-members.

Incoming Seattle Chapter President's Message

By Darrell Staaleson



I ran my first Seattle Chapter Board Meeting in the afternoon prior to our Spring Social back in June. Our topic of discussion: 'What do we want to accomplish this coming year?' It was excellent to see every Board member, including the YMG President, speak their mind and participate in an energetic and positive discussion. [Read More](#)

SEFW Fall Forum – “Higher & Higher: Jeddah Tower & Building Megatal”

By Angela Gottula Twining



Jeddah Tower, a skyscraper expected to reach more than a kilometer tall, currently under construction in Saudi Arabia

SEFW is pleased to announce details for its 8th Fall Forum, its signature educational event. “Higher & Higher: Jeddah Tower & Building Megatall” will be Wednesday, November 14, at Benaroya Hall in Seattle. The Forum will be presented by Robert Sinn, P.E., S.E., of Thornton Tomasetti and Peter Weismantle, FAIA, of Adrian Smith + Gordon Gill. The two served as Principal structural engineering and Principal architect on the Jeddah Tower, a skyscraper expected to reach more than a kilometer tall, currently under construction in Saudi Arabia.

[Read More](#)

YMG Corner

By Sean Augustino



Masonry demonstration by the Northwest Concrete Masonry Association

Last month I attended the SEA Northwest Conference in Richland, WA, as Seattle's Young Member Delegate. It was a great opportunity to learn and to expand not only my connections but those of our Seattle YMG.

The first event I attended was the Delegates Meeting, which included representatives from chapter and YMG boards across the Northwest. There were lots of ideas shared about what other chapters/YMG's are doing, and I've taken these ideas back to our YMG so we can consider them in expanding our programming. Keep a look out for some new events coming down the pipeline! [Read More](#)

State and Chapter Committee Reports

Contact the committee chair if you are interested in learning more or getting involved:

- NCSEA Delegate – Chun Lau
- Earthquake Engineering Committee – Kai Ki Mow
The EEC upcoming meeting dates are May 8, 2018.
One of the current main focus and an important topic that the committee hopes to address in the upcoming year is the Increased Seismic Load in the newly published ASCE 7-16.
Members interested in EEC can find additional information regarding the meeting on the [SEAW website calendar](#) or can contact the committee chair.
- Outreach Committee - Pete Opsahl
To sign up to volunteer or to mentor, [visit the SEFW page](#).
- Sustainability Committee – Kyle Steuck
- Refresher Committee – Mark Whiteley
- Public Information Committee – Darrell Staaleson
- Disaster Preparation/Response Committee – Joyce Lem
- WABO Liaison Committee – Charlie Griffes
The SEAW/WABO Liaison committee is now available for questions from SEAW or WABO

members. These questions can be about subjects addressed in the white papers already issued or general questions in the realm of structural engineering practice as it relates to interaction with the various building departments. Comments or questions can be emailed to charlie@ctengineering.com.

[White Paper 6b - 2017 on Deferred Submittals](#)

- Wind Engineering Committee – Scott Douglas
- Technology Taskforce – Morgan Wiese
- Membership Task Group – Jill Shuttleworth
- Continuing Education Committee – Adam Ailvers
- Scholarship Committee – Kevin Solberg

Employment Opportunities

Are you currently seeking employment as a structural engineer, senior manager, or a senior engineer technician? Check out our job board for current employment opportunities. [Learn More](#)

Help Wanted - Lund Opsahl

Located across the street from Safeco Field, Lund Opsahl is a growing structural engineering firm that provides a wide spectrum of services, including planning, design, seismic and damage assessments, upgrades, additions, tenant improvements, and construction support for a variety of new and existing building types in the Pacific Northwest. Our reputation as creative innovators and technical experts is built on responsive service, collaborative teamwork, and lasting relationships. Our firm's size offers early opportunities to work on challenging projects and encourages exciting career growth uncommon at larger firms, especially for the ambitious.

Currently, we are looking for:

- Structural Engineers of all skill levels
- Full-time Administrator/Receptionist to be our first point of contact for visitors and telephone calls
- Experienced CAD/BIM Technician

BENEFITS:

- Competitive benefits and salaries
- Health, Dental, and Vision Insurance/Health Savings Account
- Performance-based bonuses
- Flexible working hours
- 401(k) with matching contribution
- Profit Sharing Plan
- PTO, and holidays
- Group activities and team events
- In-House education programs
- Free parking
- (Did we say we're next to Safeco Field?!)

Please visit our [website](#), for additional information and job descriptions for each of these positions. Inquires and resumes may be sent to careers@lundopsahl.com.

Membership Postings

In accordance with SEAW bylaws, membership applications are vetted by the executive director, granted probationary status by the chapter board, and posted for membership comment. Membership is considered accepted 30 days after posting if current year dues are paid and no member objections have been received. [Read more](#)

Help Wanted - American Institute of Steel Construction

Help Wanted - American Institute of Steel Construction

Smarter. Stronger. Steel. A unique business development opportunity to shape the future of the American steel industry.

For nearly 100 years, the American Institute of Steel Construction has been the leading advocate and trusted resource for American structural steel. Our business development representatives build and retain strong relationships in the design and construction community by being visibly present in target cities while leveraging the resources and expertise of AISC to deliver better project outcomes. We are looking for business development representatives to join our team at AISC. The primary responsibility of this role is to educate the design and construction community about the benefits of structural steel! AISC's field specialists live and work in target cities around the country building relationships and meeting with key decision makers about the benefits of fabricated structural steel for their buildings.

You'll spend at least 10 days a month calling on architects, structural engineers, owners/developers, and contractors to help them deliver better project outcomes. [Learn More](#)

From the Editor

By John Gunn



Equilibrium publication Team:

John Gunn, Editor

Darrell Staaleson, Past Editor

Zohrah Ali & Allison Tran - Grammar, spelling, and watching out for you'll-never-believe-how-they-spelled-that!

With Darrell stepping down, I am happy to say that I am the new Editor of Equilibrium! I look forward to serving SEAW and keeping Equilibrium engaging and informative. Please do not hesitate to contact me with any questions or feedback.

ACTION ITEMS:

1. All members are welcome to submit articles to Equilibrium. To help you with your writer's block, here are a few topics: Write Engineer's Notes from Afield, summarize an interesting technical design you worked on, write about how you have been successful and increased productivity with an accounting procedure or marketing technique, write about your experiences in community services, or share some construction site photos and talk about lessons learned.
2. "A Picture and a Paragraph." And please use the Article submittal form provided. Please note that when I say, "picture" I mean an actual image and not a blank space where the picture should be. And the picture needs a caption along with the names of the people in the photo.
3. Please submit your articles in Word format using the Article Template. [\[Article Template\]](#)
4. Please email your articles to John Gunn (john.gunn@kpff.com)

September Puzzle:

In this episode, after "that poppin' J. Fox" beams down to the planet, Scotty prepares to implement "Total War." Name the title of the episode. Bonus: name the General Order given and the Star Date.

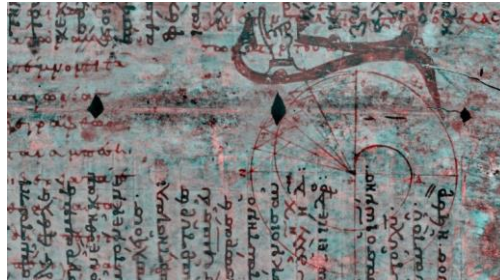
Clue: "Joshua."

Look on the SEAW Facebook Page for a picture clue!

June Puzzle:

Name the earliest known person to develop the calculus. Also, give the city in which he lived and the name of the document that proves his accomplishment.

Clue:



Answer:

Archimedes of Syracuse. 212 BCE.

"The Archimedes Codex."

Want to know more:

<http://www.archimedespalimpsest.org/>

Upcoming Events

September 25: [Seattle Chapter Meeting](#)

September 28: [September State Board Meeting](#)