



DATE: Tuesday, February 12, 2019

TIME: Breakfast & Registration: 7:00 AM
General Meeting: 7:30 – 8:00 AM
Presentation & Discussion: 8:00 – 9:15 AM

LOCATION: [Marriott Minneapolis West](#) (952)-544-4400
9960 Wayzata Blvd.; St. Louis Park, MN 55426
Located north and west of I-394 and Hwy 169

Please RSVP to: [David Oxley](#) via email: doxley@acecmn.org or fax to ACEC/MN: (952)-593-5552

FORMAT: Breakfast meeting – cost is **\$25 for members**, \$40 for non-members;
\$15 for unemployed members and \$10 for Students & those in YMG.

Meeting minutes by Greg McCool in **RED**.

MEETING AGENDA:

I. INTRODUCTIONS – Andrew Agosto

II. TREASURER’S REPORT / AND ACEC UPDATE – Dave Oxley

- Thursday February 14th is ACEC day on Capitol Hill. This year’s biggest issues: infrastructure funding, bonding bill, workforce development, engineering business climate. One bill (also introduced in 41 other states) would track keystrokes and take screenshots of consultants working on state projects.

III. COMMITTEE UPDATES

A. MNSEA Steering Committee – Andrew Agosto

- MNSEA is always looking for nominations for secretary and encourages anyone interested to attend steering committee meeting the Friday before the next breakfast meeting.

i MNSEER Committee – John Lewis

- Doug Fell attended building engineering conference in January, and it went well. There is now a Good Samaritan subcommittee examining Minnesota laws/regulations and making recommendations. Two committee members attended CalOES “train the trainer” event in Sacramento and are now qualified to provide training on their own.

ii MNSEA YMG – Ricky Kirchner

- Dodgeball tournament last month was a success: 8 teams showed up, and the U of M student team won.
- Engineering Family Feud is next week.
- Volunteering at Ronald McDonald House in March.
- “First Year of Your Career” will be in March.
- Next YMG committee meeting is on March 7th at Walker Consultants.
- Fundraising is about to commence for Hearts & Hammers in June.
- YMG has about \$1,100 in the bank.
- Ricky will be circulating an email among firms’ senior leadership soon to encourage young engineers to join the group.

iii MNSEA Annual Seminar and Trade Show – Greg McCool

- Planning is running smoothly. See you all in May!

iv MNSEA SE3 – Lauren Piepho

- Lauren is exploring the idea of founding a MNSEA SE3 committee. The national SE3 committee is exploring why certain groups leave or never join the profession. The local committee would tackle similar issues and host events to bring the issue to light.
- Lauren will be testing the waters by hosting a joint event with AIA discussing national SE3 survey results and equity issues in the architectural field.
- Anyone interested in joining the SE3 effort should contact Lauren.

IV. LIAISON UPDATES:

A. NCSEA Delegate Update – Doug Woolf via Andrew Agosto

- California gets a guaranteed seat on the NCSEA board due to their outside representation within the organization.
- NCSEA is hosting a PR challenge ([more information here](#)). Prizes are available, and all submissions must be published by September.
- Engineering Week is coming up. Contact ACEC Workforce Development Committee if you’re interested in helping out at volunteer outreach event.
- NCSEA is hosting the Timber Strong design competition at next Fall’s conference at Disneyland. MNSEA doesn’t need to help organizing a team but should act as mentors/resources if requested.



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- NCSEA is founding a sustainability committee, similar to SEI's committee. Their primary role will be to condense and distribute information and best practices to member firms.
- There is video on the NCSEA website of Ashraf Habibullah's party and speech.
- B. NCSEA Code Advisory Committee – Wind Engineering – No update this month
- C. NCSEA Structural Licensure Committee – Andrew Agosto
- National updates: Florida is making a new push. There are stirrings in California, Texas, and North Carolina as well.
- Structural Engineering Licensure Coalition is actively monitoring legislative opposition to licensure (even including PE licensure).

V. OLD BUSINESS:

None

VI. NEW BUSINESS:

None

PRESENTATION:

HEALTH MONITORING AND NON-DESTRUCTIVE TESTING OF BUILDINGS

Kim Deibel, PE | Adam Bakeman, NACE Level II, CCSMTT

When involved in building repurposing, new construction near historical buildings, or even the smallest renovation, the project is likely in need of some health monitoring or non-destructive testing. There are many methods and tests used to complete these assessments. The placement of LVDT or crack monitors to monitor ongoing conditions or taking samples and testing the materials are just a few ways this is accomplished. We will highlight specific tests, the procedures and limitations of those tests, and include recent case studies from the Building Technology Department at AET.



Adam Bakeman has over 10 years of experience working in the construction, consulting & testing industry. Adam graduated from the University of Minnesota in 2008 with a Bachelor's Degree in Construction Management. He works in the Building Technology Department at American Engineering Testing where he specializes in instrumentation, concrete, coatings, and failure analyses. He is a certified NACE Level 2 coatings inspector and ICRI Concrete Slab Moisture Testing Technician. Adam is actively involved in ASTM and ICRI at national levels. Adam has lead multiple research studies to help progress and clarify the standards and is the technical contact for ASTM F2170 and

MNSEA Minnesota Structural Engineers Association

F1869. Adam also uses instrumentation and data logging to help make assessments and evaluations for geotechnical or structural issues. He combines his working experience and knowledge with instrumentation to better investigate and troubleshoot failures ranging from coatings & flooring on concrete, to monitoring load, strain, and movement within a structure. He develops various custom configurations of instrumentation to monitor loading, deflection, movements, strain, etc. as needed to understand the concerns and allow for a big picture understanding of the assessment.



Kim Deibel is a Professional Engineer and Assistant Manager of the Building Technology Department at American Engineer Testing, Inc. She graduated from Michigan Technological University in 2002 with a Bachelor of Science in Civil Engineering. She worked for Permasteelisa out of college where she designed and engineered custom curtainwall facades of multiple high-rise buildings mostly in downtown Chicago. Kim got sales and marketing experience as a field engineer for Hilti with her expertise in post installed anchors and firestop. Kim has been at American Engineering Testing, Inc for 7 years in forensic engineering which includes structural analysis, completing investigations and assessments, and testing and evaluating construction materials. Assessments to note include the Palace Theatre as well as several areas of the Minneapolis-St. Paul International Airport. Kim is also actively involved in several professional groups including ACEC, MNSEA and ICRI-MN of which she was president of both MNSEA and most recently ICRI-MN.



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MNSEA Monthly Meeting - February 12, 2019

Signing in below provides you understand the following antitrust statement:

Discussions during ACEC/MN (incl. MNSEA) meetings should relate solely to the legitimate purposes of the organization. For a more detailed explanation of this statement, please see the ACEC/MN Antitrust Policy.

Student & YMG Cost	\$10.00
Member Cost	\$25.00
Non-Member Cost	\$40.00
Unemployed Member Cost	\$15.00

Note: Membership is by firm - Contact David Oxley for questions about membership. (doxley@acecmn.org)

	Name	Company	Member (y/n)	email (same if it has not changed)	Amount Paid
1.	Andrew Agosto	WJI-SYSTEMS	Y	- SAME -	25
2.	Kim Deibel	AET	Y	-	Speaker
3.	Adam Bakeman	AET	Y		Speaker
4.	Mustafa B. Egbliqhu	Barr Engineering Co	Y	same	\$25
5.	KEN GREEN	MMY	Y	SAME	\$25
6.	STEPHANIE YOUNG	MMY	Y	SAME	\$25
7.	GREG MCCOOL	ERA	Y	SAME	\$25
8.	Lauren Piepho	HGA	Y (YMG)	SAME	\$10
9.	PAUL ASP	HGA	Y	"	25
10.	John Ellington	Opus	Y	"	25
11.	PHIL LEWIS	" "	Y	"	25
12.	Richard Kuehner	BKBM	Y	SAME	10
13.	Tanner Swanson	WJE	N (XMG)	tswanson@wje.com	10
14.	GREG OJERN	STRUCTURAL DESIGN ASSOC	Y	SAME	25
15.	Jim Stroble	Walker Consultants	Y (YMG)	" "	\$16 / JOL
16.	Dan Krmarzick	WJI-SYSTEMS	Y	same	\$25
17.	Joe Contento	Restoration Eng Services	Y	"	\$25
18.	Justin Saterbak	Opus	Y	"	\$25
19.	JEFF WOLF	AISC	N	RUDOLF @ AISC-OLG	540
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27.					

Thank You for Attending the MNSEA Meeting

Tuesday, February 12, 2019

Health Monitoring and Non-Destructive Testing of Buildings

Presented By: Kimberly Deibel, PE

Adam Bakeman, NACE Level II, CCSMTT



To the best of our knowledge, this educational program meets the requirements of the Board of AELSLAGID for continuing education. MNSEA makes no warranty, directly or indirectly, that this program meets the standard established by the Board of AELSLAGID for continuing education.

Continuing Education – 1.0 Professional Development Hour

A handwritten signature in black ink, appearing to read 'A. Agosto', is written over a horizontal line.

Andrew P. Agosto, President – MNSEA

MNSEA Meeting Receipt

Breakfast Meeting:

Student & YMG Cost	=	\$10.00	<input type="checkbox"/>
Member Cost	=	\$25.00	<input type="checkbox"/>
Non Member Cost	=	\$40.00	<input type="checkbox"/>
Unemployed Member Cost	=	\$15.00	<input type="checkbox"/>