



# MNSEA

Minnesota Structural Engineers Association

SEMINAR AND TRADE SHOW – MAY 10, 2012

## New and Notable MN Structural Engineering Projects

### SESSION 1 – White Bear Lake High School

#### James Dorr, PE – BKBM Engineers

White Bear Lake High School is undergoing 285,000 sq ft of renovations and 375,000 sq ft of additions totaling around \$150M project construction cost. The additions include two ICC 500 Storm Shelters designed for 250 mph winds as well as a new commons space with HSS20x20x3/4 slanted column moment frames. An auditorium, band/orchestra area, field house, and radiused 3-story classroom addition are also part of the project. The classroom addition features radiused slab edges, composite deck floor system supporting multiple bumped-out/recessed stories of brick. As part of the renovations, steel columns supporting 100' long roof trusses are being removed and supported by new beams and strengthened columns. The field house utilizes 128' long DLH joists that support a hanging running track. When complete, the school will have capacity to serve 3,200 students.



### SESSION 2 – Wells Fargo Office Towers at Downtown East Development

#### Ryan Bonniwell, PE, SE – ERA Structural Engineering

The 295-foot-tall Wells Fargo Office Buildings in Minneapolis are two mirrored 17-level towers that are part of a 5-block redevelopment in the Downtown East neighborhood. The buildings together have 1.2 million SF of office space for 5,000-6,000 employees. The project takes advantage of nearby light rail access and a 4.2-acre public greenspace across the street. Skyway connections to US Bank Stadium and the remainder of the downtown skyway system were included in the development. The structure makes use of composite slabs-on-metal-deck and composite steel floor framing at the office levels and a concrete core for resisting lateral loads. The Wells Fargo towers earned LEED Platinum certification, making it the largest office project in Minnesota history and second largest in the nation to achieve that goal. The project is the winner of several awards including ENR Midwest's Award of Merit in 2017.

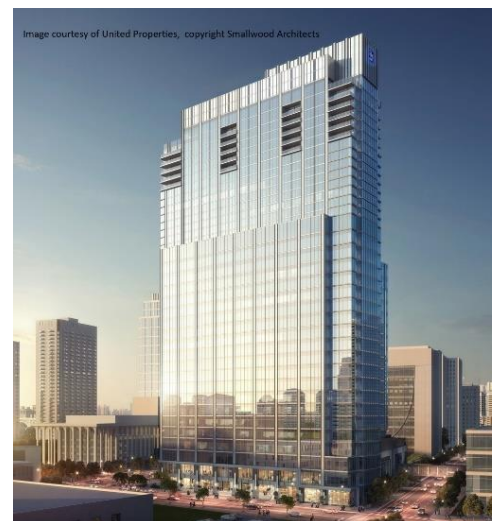


### SESSION 3 – RBC Gateway

#### Steve Hamvas, PE – SDL Associates

#### Michael Martin, PE – McGough Construction

The RBC Gateway project is a 35-story vertically stacked mixed-use development including offices for RBC Wealth Management, a Four Seasons hotel, 33 private residences, and three levels of below grade parking. At the street level there will be retail, a public plaza with an easement for a future streetcar project, and an entrance to the Skyway system. The tower is comprised of a 4-story podium for hotel services, 16 office floors, 8 hotel floors, and 6 condominium floors. There is a transfer floor between the office floors and hotel floors





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### AGENDA:

7:00 a.m.	Registration & Breakfast & Trade Show	10:00 a.m.	Session 2
7:40 a.m.	MNSEA General Meeting	11:00 a.m.	Break & Trade Show & Snacks
8:10 a.m.	Trade Show Vendor Introductions	11:45 a.m.	Session 3
8:30 a.m.	Session 1	12:45 p.m.	Closing
9:30 a.m.	Break & Trade Show		

### LOCATION:

[Marriott Minneapolis West](#) – 9960 Wayzata Blvd, Minnetonka, MN 55426  
Wendy Ortendahl: [wortendahl@csmcorp.net](mailto:wortendahl@csmcorp.net) or 952-367-5073

### COST:

MNSEA or SEAWI members	\$100
General Attendees (non-members)	\$150
MNSEA/SEAWI Young Members (35 and under)	\$70
Students	\$40

Includes General Meeting, Educational Sessions, Trade Show Access, Breakfast, and Snack Breaks

### REGISTRATION:

[Online Registration Link](#)  
Registration Refund – 48 hours minimum cancellation required

### CONTINUING EDUCATION:

The seminar will provide 3.0 PDH/0.3 CEU credits. Certificates will be distributed at the end of the seminar.

### TRADE SHOW:

A trade show with 20+ vendors from across industry will occur on breaks between educational sessions. Vendors will provide updates to attendees on their products and services. Vendors are excited to answer questions and provide solutions to every-day engineering challenges.

#### List of Currently Registered Vendors:

- American Engineering Testing
- Atlas Foundation Company
- Atlas Tube
- Cast Connex
- Cemstone Companies
- Dewalt
- Epic Metals
- Euclid Chemical
- Ground Improvement Engineering
- Hilti, Inc.
- Keller
- Kline-Johnson & Associates
- LeJeune Bolt Company
- Lindapter
- Molin Concrete Products
- Peikko
- Simpson Strong Tie
- Subsurface Constructors, Inc
- Veit and Company
- Wells Concrete

If you have any questions about this seminar, please contact Ricky Kirchner at 651-252-4954 or [Ricky.Kirchner@kimley-horn.com](mailto:Ricky.Kirchner@kimley-horn.com)



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### **James Dorr, PE – BKBM Engineers**

James Dorr is a structural engineer and project manager at BKBM Engineers in Minneapolis. James leads design teams on a variety of projects with most of his work in education and housing. He has experience in design-build and design-bid-build delivery for projects including additions/renovations of existing buildings, investigation of existing structures, and new construction. James has a BSCE and MSCE from the University of North Carolina at Charlotte and is a licensed Professional Engineer in the state of Minnesota.

### **Ryan Bonniwell, PE, SE – ERA Structural Engineering**

Ryan has a proven history of helping architects and contractors find solutions to the unique challenges that a project presents. He relies on a breadth of experience that includes mixed-use, residential, medical, office, sports facilities, and parking to consistently deliver on projects with accelerated schedules and tight budgets. With his commitment to understanding client values, Ryan has helped make ERA a vital partner on major projects including multi-block developments and 25-story high-rise towers. Ryan holds engineering degrees from the University of Southern California and the University of California, Berkeley. He is a licensed PE and SE in over 10 states.



### **Steve Hamvas, PE – SDL Associates**

Steve is a principal at Stanley D. Lindsey and Associates, Ltd. (SDL) in Atlanta, Georgia. Steve received a Bachelor of Science in Civil Engineering degree from Tufts University in 1981 and a Master of Engineering in Civil Engineering degree from Cornell University in 1982. Steve worked for two engineering firms prior to joining SDL in 1993. Steve is responsible for coordinating work between SDL's design engineers and drafters, contract negotiations, client relations, collaborating with other consultants, quality assurance, and coordinating construction administration. Steve's notable projects include the 47-story Truist Tower (formerly Hearst Tower) in Charlotte, North Carolina, the 35-story RSA Battle House Tower in Mobile, Alabama, and the Federal Reserve Bank of Atlanta. Steve has been involved in many high-rise residential projects and high-rise mixed-use projects, which could include parking, office, retail and hospitality components in addition to the residential component. The recently completed RBC Gateway project in Minneapolis, Minnesota is an example of this type of vertically stacked mixed-use project.



### **Michael Martin, PE – McGough Construction**

Mike Martin, P.E. (Senior Manager – Self Perform) is a licensed professional engineer in the state of Minnesota. Michael holds a Bachelor of Science degree in Civil Engineering from the University of Minnesota. He worked for Meyer Borgman Johnson as a structural engineer from 2007 to 2012, on a variety of projects and unique services including connection design. Since joining McGough Construction in 2012, he has been involved with many projects, most notably the Ordway Center for the Performing Arts in St. Paul MN, Essentia Vision Northland Hospital in Duluth MN and RBC Gateway Tower in Minneapolis MN. Mike is currently responsible for leading McGough's self-perform preconstruction efforts and serves as a structural advisor for constructability reviews and guidance on construction means and methods.

