



**AIA**  
Minnesota

Conference Program

**A'19 MN**

# The Minnesota Conference on Architecture

November 12-15, 2019 | Minneapolis Convention Center



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## CONFERENCE FEATURES

### Attend Programs

More than 70 events are scheduled during the four days of the Conference. See pages 9–46 for detailed descriptions of all events and speakers.

### Exhibit Hall (open Tuesday – Thursday)

The Exhibit Hall is open and free to everyone. Bring colleagues, friends, and clients to see new products, meet vendors, and enjoy food and entertainment.

Tuesday	4:00 p.m. – 6:00 p.m.
Wednesday	11:15 a.m. – 2:30 p.m. & 3:45 p.m. – 6:00 p.m.
Thursday	11:30 a.m. – 2:00 p.m.

### SPECIAL EXHIBITS & THINGS TO SEE AND DO

Make sure to check out this year's special exhibits, including displays featuring the 2019 Firm Award, Louis Lundgren Award, Ralph Rapson Traveling Study Fellowship, the 25 Year Award, and more.

- Enjoy the **Opening Night Party & Beer Crawl** on Tuesday with live music, beer, and snacks throughout the Exhibit Hall.
- Stop by the **Pop-Up Bookstore** hosted by the University of Minnesota Press for great architecture-related books and more!
- Buy a **raffle ticket** to support the great work of the Minnesota Architectural Foundation (MAF).
- Attend the **Wednesday afternoon reception** in the Exhibit Hall hosted by the Minnesota Concrete & Masonry Contractors Association and their Masonry Street exhibitors. Enjoy hors d'oeuvres and cash bar.
- Greet students on **Student Day**, Thursday, a great chance for current and future practitioners to connect and build community.
- Make a bid on an item in the **Silent Auction** in the Exhibit Hall hosted by Urban Sketchers, featuring a great selection of original art. Proceeds support MAF and Urban Sketchers.
- Explore the **tiny home prototype**, located in the Exhibit Hall, created by Settled, for people experiencing homelessness.
- Attend the **Member Reception** hosted by Mortenson at Westminster Presbyterian on Thursday to find out if you are a winner of an MAF Raffle item.

### Join the discussion online!

Use the hashtag **#A19MN** to connect with other conference attendees:



[facebook.com/aia-minnesota](https://facebook.com/aia-minnesota)



[twitter.com/aia-mn](https://twitter.com/aia-mn)



[instagram.com/aia-minnesota](https://instagram.com/aia-minnesota)



**AIA**  
Minnesota

### Welcome to the 2019 Minnesota Conference on Architecture!

For me, the conference is a time to be inspired and expand my thinking. Each year, the sessions at the Conference and the new ideas shared by colleagues from all over Minnesota and beyond open my horizons and reinvigorate my work. They represent the best of what's next for our profession. I also encourage you to visit the Exhibit Hall, where there is a great deal of information that can help make us more effective practitioners.

At the Member Congress, we will update you on progress made on our three-year strategic plan. In the past year, we have implemented more public-facing programs, developed new strategic partnerships, engaged the next generation of the profession, and moved the AIA Minnesota office space.

Even with all we accomplished in 2019, 2020 promises to be just as exciting, and we're looking forward to sharing the path forward with you.



**Eric West, AIA**  
AIA Minnesota President



# Lake Superior Design Retreat

February 28–29, 2020  
Fitger's Inn, Duluth

## Confirmed Speakers



**Lucia Watson**

Chef and founder of  
Lucia's Restaurant



**Matt Jenkins & Karen “Rudy” Rudoph**

Artisan blacksmiths behind Cloverdale Forge



**More speakers  
announced soon**

Join your peers on the shore of Lake Superior for an interdisciplinary, rejuvenating, and unconventional design conference.

The retreat offers a rare opportunity to disconnect from the everyday and immerse yourself in design thinking through surprising and delightful connections between ideas and people. Return with a refreshed passion and unexpected inspiration for your creative work.

Watch AIA Minnesota's social media and e-newsletter for further speaker announcements and registration opening!

AIA Continuing Education credits available.

[www.aia-mn.org/events/LSDR2020](http://www.aia-mn.org/events/LSDR2020)

**#LSDR32**

**“The Lake Superior Design Retreat invigorates my creative process and gives me hope that the right brain will save the world.”**

— Derek McCallum, AIA  
Minneapolis director



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## EVENTS SUMMARY

Type	Start	End	Event No. Title	Room #	LU's	HSW	GBCI	Ethics
<b>TUESDAY, NOVEMBER 12</b>								
XL WORKSHOP MFBA	8:30 a.m.	11:45 a.m.	<b>T1.</b> Resolving Conflicts at Work: The Power of Courageous Conversations	213B	3.0			
WORKSHOP	8:30 a.m.	10:00 a.m.	<b>T2.</b> Networking Breakfast: "Architect, Woman, & _____"	208B	1.5			
	8:30 a.m.	10:00 a.m.	<b>T3.</b> Thermal Mass, Energy Codes, and Precast Concrete	205C	1.5	•		
	8:30 a.m.	10:00 a.m.	<b>T4.</b> Right-Sizing Systems with Fire, Smoke, and Egress Modeling	211B	1.5	•		
	8:45 a.m.	10:00 a.m.	<b>T5.</b> Smart University as a Path to More Innovation in Economic, Environmental, and Social Sustainability	208C	1.25	•		
	9:30 a.m.	11:45 a.m.	<b>T6.</b> Ethics: The Unspoken Contract—Tales from Residential Architects	103C	2.0			•
	10:15 a.m.	11:45 a.m.	<b>T7.</b> AIA 2019 Documents: Understanding the Changing Role of the Construction Manager	208C	1.5			
	10:15 a.m.	11:45 a.m.	<b>T8.</b> Post-Occupancy Evaluation of the Impact of Electric and Daylighting in Workplace Buildings	205C	1.5	•	•	
	10:15 a.m.	11:45 a.m.	<b>T9.</b> Bridging and Thermal Continuity of the Building Skin: Balancing Thermal Separation with Structural Support	211B	1.5	•		
	10:15 a.m.	11:45 a.m.	<b>T10.</b> Notification for the Masses	208B	1.5	•		
	12:00 p.m.	2:30 p.m.	<b>T11.</b> Member Congress and Lunch	102E				
KEYNOTE	2:45 p.m.	4:00 p.m.	<b>T12.</b> Keynote Address: Designing for Change	103C	1.25			
EXHIBIT HALL	4:00 p.m.	6:00 p.m.	<b>T13.</b> Exhibit Hall: Opening Night Party & Beer Crawl – FREE					
KEYNOTE	6:00 p.m.	7:30 p.m.	<b>T14.</b> Keynote Address: Creatively Housing the Homeless – FREE	103C	1.5	•		
<b>WEDNESDAY, NOVEMBER 13</b>								
	8:00 a.m.	10:00 a.m.	<b>W15.</b> Ethical Design in the Era of Climate Change	103C	2.0	•		•
	8:00 a.m.	10:00 a.m.	<b>W16.</b> Cohousing: Designing a Community for Interaction	102D	2.0	•		
	8:30 a.m.	10:00 a.m.	<b>W17.</b> Good Design: The Client's Perspective	102C	1.5			
	8:30 a.m.	10:00 a.m.	<b>W18.</b> Learning from Nature: Integrating Wood Cladding with Client Goals	211B	1.5	•		
	8:45 a.m.	10:00 a.m.	<b>W19.</b> Cultural Competency for Community Engagement, Planning, and Design	208B	1.25			
	8:45 a.m.	10:00 a.m.	<b>W20.</b> Using BIM Data to Automate Project Benchmarking	208C	1.25			
	10:15 a.m.	11:30 a.m.	<b>W21.</b> Greening Demolition Projects	102D	1.25	•	•	
	10:15 a.m.	11:30 a.m.	<b>W22.</b> Learning from the Wall of Forgotten Natives	208C	1.25	•		
	10:15 a.m.	11:30 a.m.	<b>W23.</b> State Designer Selection Board: What Works & What Doesn't!	208B	1.25			
MFBA	10:15 a.m.	11:30 a.m.	<b>W24.</b> Winning Ways to Pass the Client Relationship Baton	102C	1.25			
	10:15 a.m.	11:30 a.m.	<b>W25.</b> Thoughtful Finishing and Environmental Stewardship	211B	1.25	•		
	10:15 a.m.	11:30 a.m.	<b>W26.</b> Hosting the 2019 AIA Women's Leadership Summit	213B	1.25			
TOUR	10:15 a.m.	12:15 p.m.	<b>W27.</b> Vertical Endeavors Tour – Informing Design with Augmented Reality		1.5			
EXHIBIT HALL	11:15 a.m.	2:30 p.m.	<b>W28.</b> Exhibit Hall – FREE					
	2:30 p.m.	4:00 p.m.	<b>W29.</b> Dense, Energy-Efficient, Affordable Housing	102D	1.5	•	•	
WORKSHOP	2:30 p.m.	4:00 p.m.	<b>W30.</b> Trauma-Informed Design: A Discussion on Environmental and Community Resiliency	208B	1.5	•		
	2:30 p.m.	4:00 p.m.	<b>W31.</b> Real World Uses of Machine Learning in Architectural Design	102C	1.5	•		
	2:30 p.m.	4:00 p.m.	<b>W32.</b> Planning Commission Confidential: What to Know When Submitting Land Use Applications	213B	1.5			
	2:30 p.m.	4:00 p.m.	<b>W33.</b> TMBR – Pushing the Boundaries of Mass Timber Construction in Minnesota and Beyond	211B	1.5	•		
	2:30 p.m.	4:00 p.m.	<b>W34.</b> Cultural Destination Areas: The Future of St. Paul	208C	1.5			
TOUR	3:00 p.m.	5:00 p.m.	<b>W35.</b> Minnehaha Academy: A Historic School Reimagined on the Riverside		1.0			
EXHIBIT HALL	3:45 p.m.	6:00 p.m.	<b>W36.</b> Exhibit Hall – FREE					
KEYNOTE	6:00 p.m.	7:30 p.m.	<b>W37.</b> Keynote Address: In Our Times	103C	1.5			

Type	Start	End	Event No. Title	Room #	LUs	HSW	GBCI	Ethics
<b>THURSDAY, NOVEMBER 14</b> (Student Day)								
	7:30 a.m.	8:30 a.m.	<b>TH38.</b> Fellows (FAIA) Breakfast	Lounge A				
WORKSHOP	8:00 a.m.	10:00 a.m.	<b>TH39.</b> Escaping from K(NO)W	208B	2.0			
	8:00 a.m.	10:00 a.m.	<b>TH40.</b> Amendments to Minnesota Rule 1305 and the 2018 IBC	103C	2.0	•		
XL WORKSHOP	8:30 a.m.	11:45 a.m.	<b>TH41.</b> The Ethics of Exploring Culture and Identity	213B	3.0			•
XL PROGRAM	8:30 a.m.	11:45 a.m.	<b>TH42.</b> ARE 5.0 Review: Programming & Analysis	210B				
	8:30 a.m.	10:00 a.m.	<b>TH43.</b> Delivering Architecture in Rural Jamaica	208C	1.5			
	8:30 a.m.	10:00 a.m.	<b>TH44.</b> A Cross Section of New Technology for Architecture	102C	1.5			
	10:15 a.m.	11:45 a.m.	<b>TH45.</b> Navigating Through the Leadership Pipeline	208C	1.5			
	10:15 a.m.	11:45 a.m.	<b>TH46.</b> Trust, but Verify! QC for Your Air Barrier	211B	1.5	•		
	10:15 a.m.	11:45 a.m.	<b>TH47.</b> Analysis, Design, and Code Compliance Guide for Inclusive and Gender-Specific Restrooms in K-12 Schools	102D	1.5	•		
	10:15 a.m.	11:45 a.m.	<b>TH48.</b> Solving Complex Architecture with Material Knowledge	102C	1.5	•		
TOUR	10:15 a.m.	12:00 p.m.	<b>TH49.</b> Mission Critical: Sustainable Design and Construction Meets the Client's Mission		1.0	•		
EXHIBIT HALL	11:30 a.m.	2:00 p.m.	<b>TH50.</b> Exhibit Hall – FREE					
WORKSHOP	2:00 p.m.	3:30 p.m.	<b>TH51.</b> Navigating Your Firm's Culture	213B	1.5			
	2:00 p.m.	3:30 p.m.	<b>TH52.</b> SB 2030: Using the Energy Standard Tool	211B	1.5	•	•	
	2:00 p.m.	3:30 p.m.	<b>TH53.</b> Expanding Architectural Agency: Research and Practice at Rapson	208C	1.5			
	2:00 p.m.	3:30 p.m.	<b>TH54.</b> How to Convince Clients to Invest in Sustainability	102C	1.5	•		
	2:00 p.m.	3:30 p.m.	<b>TH55.</b> 2 + 2: Achieving Outstanding Design	102D	1.5			
	2:00 p.m.	3:30 p.m.	<b>TH56.</b> Cultural Expression in Contemporary Indigenous Design	208B	1.5			
KEYNOTE	3:45 p.m.	5:15 p.m.	<b>TH57.</b> Keynote Address: Jurors Show and Tell and Announcement of Winners	103C	1.25			
	5:30 p.m.	7:00 p.m.	<b>TH58.</b> Member Reception at Westminster Presbyterian Church – FREE					
<b>FRIDAY, NOVEMBER 15</b>								
	8:00 a.m.	10:00 a.m.	<b>F59.</b> Minnesota Amendments to the 2018 International Residential Code	211B	2.0	•		
WORKSHOP	8:00 a.m.	10:00 a.m.	<b>F60.</b> The Ethics of Diversity	208B	2.0			•
	8:30 a.m.	10:00 a.m.	<b>F61.</b> Applying the 21st Century Development Matrix in Minnesota	102D	1.5	•	•	
	8:30 a.m.	10:00 a.m.	<b>F62.</b> Transforming the Suburban Mall in a Changing Retail Landscape	102C	1.5			
	8:45 a.m.	10:00 a.m.	<b>F63.</b> Sketching in Today's Tech-Focused Environment	208C	1.25			
TOUR	9:00 a.m.	11:45 a.m.	<b>F64.</b> Idiosyncratic City: Peculiar Programs in Complex Contexts		1.5			
	10:15 a.m.	11:45 a.m.	<b>F65.</b> Minnesota Modern Masters: Oral Histories in Architecture	102C	1.5			
	10:15 a.m.	11:45 a.m.	<b>F66.</b> To Build or Not to Build: Is That the Question?	211B	1.5	•		
	10:15 a.m.	11:45 a.m.	<b>F67.</b> Daylighting Metrics and Poetics	102D	1.5	•	•	
	10:15 a.m.	11:45 a.m.	<b>F68.</b> Hotel Planning and Functional Design	208C	1.5			
	10:15 a.m.	11:45 a.m.	<b>F69.</b> Art of Renovation Design – From Point Clouds and Virtual Reality to Owner Handoff	208B	1.5			
WORKSHOP	10:15 a.m.	11:45 a.m.	<b>F70.</b> Welcome 2 the Jungle	213B	1.5			
KEYNOTE	12:00 p.m.	2:00 p.m.	<b>F71.</b> Keynote Address and Lunch: Designing with Intention: How We Might Make Spatial Justice a Reality	103C	1.25			
TOUR	2:15 p.m.	4:45 p.m.	<b>F72.</b> GOOOOOAL at Allianz Field! Outside, Inside, and Underground		1.25	•		

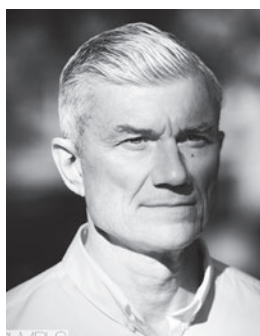


# 2019 AWARDS CELEBRATION

FRIDAY, DECEMBER 6, 2019  
INTERNATIONAL MARKET SQUARE



**FIRM AWARD** SPECIAL AWARDS **LOUIS LUNDGREN AWARD** YOUNG ARCHITECT AWARDS **RESIDENTIAL ARCHITECT OF DISTINCTION** HONOR AWARDS **25 YEAR AWARD** EMERGING RESIDENTIAL TALENT OF THE YEAR



**CELEBRATING  
THE BEST IN  
MINNESOTA  
ARCHITECTURE**



Register to attend at [aia-mn.org/event/2019-awards](http://aia-mn.org/event/2019-awards)

## Conference Sponsors

- AIA Minnesota Committees/Knowledge Communities/ Task Forces:
  - 21st Century Development Task Force (Event F61)
  - Architects Licensing Advisory Committee (Event TH42)
  - Building Codes Knowledge Community (Events TH40 and F59)
  - Committee on Design (Events TH55 and TH57 Keynote Address)
  - Council of Firms Knowledge Community (Event TH45)
  - Emerging Professionals Committee (Event TH51)
  - Equity, Diversity, and Inclusion Committee (Event TH41)
  - Government Affairs Committee (Event W23)
  - Housing Advocacy Committee (Event T14)
  - MFBA Committee (Events T1 and W24)
  - Residential Architecture Committee (Events T6 and TH54)
  - Technology in Architecture (TAP) Knowledge Community (Event F63)
  - Women in Architecture Committee (Events T2 and W26)
- AIA Minneapolis (Event F71 Keynote Address)
- AIA Northern Minnesota (Event TH46)
- Air Barrier Association of America (Event TH46)
- American Indian Council of Architects and Engineers (Events W22 and TH56)
- Bayer Built Woodworks (Tote Bag)
- ConstructConnect (Event W37 Keynote Address)
- Dunwoody College of Technology (Event TH43)
- Emanuelson-Podas (Morning Coffee)
- Franz Reprographics (Signage Sponsor)
- H+U Construction (Morning Coffee)
- Kraus-Anderson (Event T12 Keynote Address)
- Loucks (Event W35 Tour)
- Marvin (Student Bus)
- McGough (Lanyard)
- Minnesota Architectural Foundation (Event F71 Keynote Address)
- Minnesota Concrete Council (Event W29)
- Minnesota Concrete & Masonry Contractors Association (MC&MCA) (Event W36 Reception)
- Minnesota Society of Architectural Historians (Event F65)
- Mortenson (Events T11 Member Congress and TH58 Member Reception)
- PCI Midwest (Event T3)
- University of Minnesota College of Design (Event T8)
- University of Minnesota School of Architecture (Event TH53)
- University of Minnesota Press (Bookstore)
- Urban Sketchers – Twin Cities (Silent Auction)
- U.S. CAD (Morning Coffee)
- USGBC Minnesota (Events T8, W21, W29, TH52, F61, and F67)
- Western Red Cedar Lumber Association (Morning Coffee)
- Willdan (Event F72 Tour)
- Xcel Energy (Event F72 Tour)

## Minnesota Architectural Foundation



The Minnesota Architectural Foundation (MAF) benefits the community by funding crucial growth opportunities that educate, inspire, and support emerging architects. Through its scholarship and fellowship programs,

the MAF invests in architectural students and professionals to promote excellence, encourage discovery, foster equity, and advance leadership in the architectural profession.

MAF has a strong presence at the A'19 MN Conference to promote the activities of the Foundation and to seek ongoing financial support. Visit with representatives in the lobby and purchase a raffle ticket.

The MAF is proud to highlight its most recent accomplishments:

- Fostering LEADERSHIP through the support of educational opportunities for our next generation of leaders in the architectural community, the **Beverly Hauschild-Baron Leadership Fund** is supporting event F71, a keynote presentation titled "Designing with Intention: How We Might Make Spatial Justice a Reality" by Liz Ogbu (page 45). Additionally, the fund provided fourteen (14) scholarships for the AIA Women's Leadership Summit in September of this year.
- Celebrating DISCOVERY and advancement of architectural education to graduates and practitioners through foreign/ domestic travel-study, the 2019 **Ralph Rapson Traveling Study Fellowship** was awarded to Michael Hara, AIA.
- Advancing DIVERSITY in the profession by sponsoring promising minority students with focused and sustained financial support, the **Clarence Wigington Minority Architectural Scholarship** announced their most recent scholar, Laichee Yang.
- Supporting the ADVANCEMENT of women in the profession of architecture, the newly created **Women in Architecture Fund** is off to a great start. The fund will provide grants to support opportunities for women in the profession of architecture.
- Recognizing EXCELLENCE in architecture and engineering among UMN final-year graduate students, the **Thomas F. Ellerbe Scholarship** named three architecture students – Tyler Snell, Martin Preuss, and Austin Watanabe – as scholarship recipients in 2019.

## Conference Programs Committee

Catherine Britt, AIA, LEED AP BD+C, Cuningham Group Architecture  
 Sarah St. Louis, Assoc. AIA  
 Jim Butler, AIA, LEED AP, RSP Architects  
 James Gaspar, Assoc. AIA, U+B Architecture & Design  
 Daniel Green, AIA, Miller Dunwiddie Architecture  
 Michael Kisch, AIA, LEED AP BD+C, Mortenson  
 Stephen Knowles, AIA, AECOM  
 Jonathan Strand, AIA, LEED AP BD+C, Bentz/Thompson/Rietow, Inc.  
 Rachel Usher, AIA, LEED AP, ESG Architecture & Design

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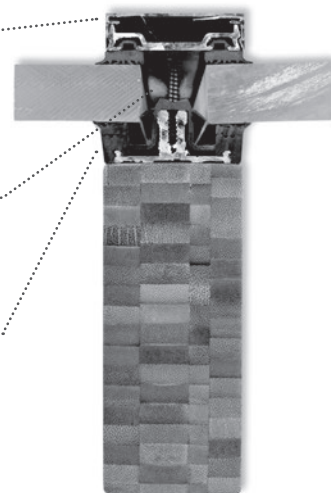
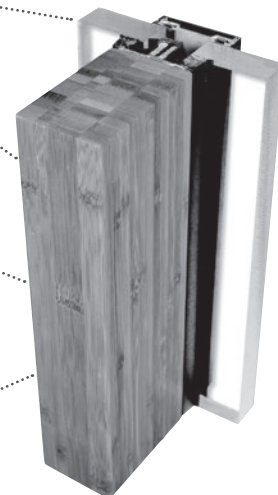
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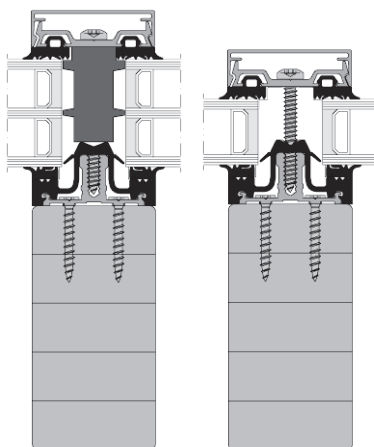
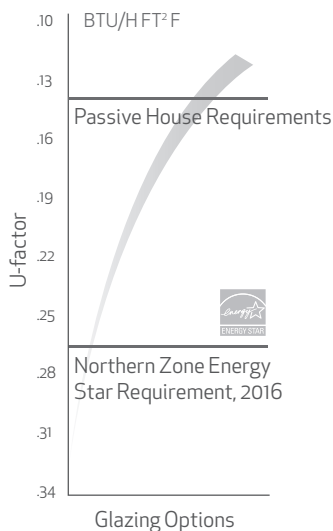
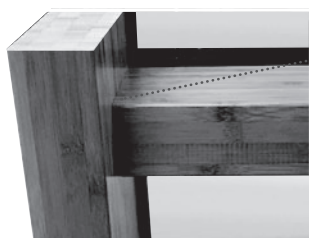


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#### HIGHLIGHTS

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- System depths engineered to meet project-specific span and windload requirements. Can be engineered for load-bearing.
- Operable H Window elements can be integrated into the curtain wall for entrances or ventilation.
- Total unit U-values with standard 2 or 3 pane glass options range from 0.29 - 0.16.
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- Totally dry glazed system.

■ Vertical and horizontal curtain wall members are prefabricated with concealed brackets for simple modular assembly and efficient installation.



FOREST STEWARDSHIP  
COUNCIL-CERTIFIED  
WINDOWS AVAILABLE





8:30 a.m. – 11:45 a.m.

**T1. Room 213B, Capacity 60, XL Workshop**

## Resolving Conflicts at Work: The Power of Courageous Conversations

Sponsored by the AIA Minnesota MFBA Committee

3.0 LUs Experience Level: Intermediate

This interactive session will help you build skill and confidence in responding to conflict situations at work and teach you how you can have effective courageous conversations that result in positive outcomes on both sides. Are you hesitant to give feedback in the moment – either positive or negative – when you know you should speak up? Do you sometimes feel at a disadvantage when you're caught up in a tough interaction? If so, join us for this lively program and learn to take back your power when conflict happens.

### Learning Objectives

1. Learn new ways of thinking about and responding to inevitable conflict at work with colleagues, clients, and project team members.
2. Discover and learn how to use tools for planning and implementing effective courageous conversations.
3. Build skills in how to give feedback in the moment.
4. Identify how and when to take action when difficult feedback needs to become a formal HR process.



**Debra S. Magnuson, M.A., CPCC**, is a Career Partners International (CPI) Twin Cities executive coach, a speaker, and leadership development consultant, with 20+ years of experience working with individuals and teams to help them achieve professional goals and career satisfaction. Debby was on the faculty of St. Catherine University's M.A. in Organizational Leadership program. One of Debby's research and presentation specialties is managing across generations. She is the author of *Work With Me: A New Lens on Leading the Multigenerational Workforce*.

8:30 a.m. – 10:00 a.m.

**T2. Room 208B, Capacity 110, Workshop**

## Networking Breakfast: "Architect, Woman, & \_\_\_\_\_"

Sponsored by the AIA Minnesota Women in Architecture Committee

1.5 LUs Experience Level: Entry

Come to the table and join the conversation with women architects who go above and beyond professional practice. At this networking breakfast, attendees will break out into small groups and discuss current topics and controversy in the profession of architecture. Each conversation will be moderated by women who serve dual roles as architects & \_\_\_\_\_. Join these

thought leaders as they discuss how side projects and passions influence professional architectural practice. Consider potential innovations in professional practice as entrepreneurs, artists, and educators push traditional boundaries. Talk about how we can create a broader creative practice through diversity and inclusion.

### Learning Objectives

1. Engage with industry leaders on current architecture topics.
2. Identify valuable leadership skills from industry leaders.
3. Practice networking skills and strategies.
4. Explore resources and alternative career options for advancing the profession and themselves.



**Amanda Aspenson, AIA**, is design project manager for UMN Capital Project Management (CPM). She is responsible for managing system-wide campus architecture and interiors and working inclusively with internal and external project teams. Amanda works to strengthen the University's commitment to sustainability by leading the B3/SB 2030 process within CPM. She is a co-founder of the AIA Minnesota Women in Architecture Committee.



**Susan Blumentals, FAIA**, is one of two female graduates from Ralph Rapson's UMN School of Architecture. She was the first woman professional member of the Minnesota Registration Board (AELSLAGID) in 1991, and the first woman to chair that board, and to hold leadership positions at NCARB and in the ARE testing program. Susan was active in AIA Minnesota committees from 1975, president in 2001, and led the Minnesota Architectural Foundation in 2004. She was elevated to Fellowship in 1999 for her work with AELSLAGID and NCARB.



**Maureen Colburn, AIA, LEED AP BD+C**, is the leader of the LHB Research Studio. Her projects range from the building to city scale and include co-management of the Minnesota Buildings, Benchmarks, and Beyond (B3) suite of programs and tools for sustainable design; leadership of the Regional Indicators Initiative, an effort to engage communities in actionable strategies for energy and greenhouse gas reduction by providing them with planning tools and actual results; and ongoing research into effective ways to reduce energy consumption in commercial buildings.



**Katie Kangas, AIA**, is a project architect at RSP Architects and the North Central States Regional Director for the Young Architects Forum (YAF). She pursued architecture after discovering the joy of hand drafting in high school. Now, she finds opportunities to integrate hand rendering and artistry through work, publications, and nonprofit design charettes.



**Kimberly Long Loken, AIA, LEED AP**, is an assistant professor of Game Design at the University of Wisconsin-Stout. She teaches graduate and undergraduate students at the intersection of architecture, interiors, film, and games. Kim's 15 years of industry experience span civic, commercial, and residential projects. Many of them are adaptive reuse or historic preservation efforts. Her recent creative research explores ecosystems as game systems.

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8:30 a.m. – 10:00 a.m.

## T2. (continued)



**Alissa D. Luepke Pier, AIA**, is an award-winning architect who is the vice president and senior member of the Minneapolis City Planning Commission. She is the principal architect for her own small firm based in Minneapolis and lives on the city's north side, where she is a dedicated and vocal advocate for equity both in the architecture realm and beyond. She currently serves on two boards, and volunteers for other worthy causes such as fostering animals, funding celiac research, educational advocacy, and supporting homeless youth.



**Heather Rose-Dunning**, partner in both Yellow Dog Studio and Scout Workshop, may have relocated to Minnesota more than 20 years ago, but still fancies herself a transplant. She grew up a misfit—a math nerd and theater geek in a small conservative town—and she's grown to embrace her own uniqueness while supporting

and mentoring others who find themselves square pegs in a world of primarily round holes. Alongside her friend and business partner Kim Batcheller, she leads the design firm Yellow Dog Studio, as well as the creative coworking community Scout Workshop.



**Amber Sausen, AIA**, is an architect at Alliance in Minneapolis and a 2019 recipient of the AIA Minnesota Young Architects Award. She also serves as president of Urban Sketchers, a global nonprofit organization dedicated to on-location drawing, arts education, and building intercultural connections. Amber's work in the

realms of architecture and the arts has led to a deep commitment to bringing her full creative self to her professional and personal pursuits.



**Rachel Williams, AIA**, has been with Willdan for over 12 years, delivering energy and sustainability consulting. She enjoys combining her diverse experience in secondary science and math education, material science research, and traditional architecture practice on a wide variety of building types. This consulting provides

quantitative information to teams early in the design process to impact decision making.

## T3. Room 205C, Capacity 480

### Thermal Mass, Energy Codes, and Precast Concrete

Sponsored by PCI Midwest

1.5 LUs

HSW

Experience Level: Entry

This presentation describes how mass walls in combination with insulation can save energy in buildings. It also describes the benefits of thermal mass (thermal inertia) and how these benefits are recognized in national energy codes. Attendees will also hear an overview of compliance paths of these energy codes. Additionally, the degradation of the R-value of concrete panels with metal thermal bridges that pass through the insulation will be explained.

## Learning Objectives

1. Explain how mass walls save energy.
2. Examine energy code requirements for mass walls and determine how thermal mass provisions are presented in these codes.
3. Explore a variety of compliance paths for meeting these energy codes.
4. Examine and explain how metal thermal bridges that penetrate the insulation in a mass wall degrades their thermal resistance or R-value.



**Martha G. VanGeem, PE, LEED AP BD+C, FACI**, is a self-employed principal engineer in the Chicago area with 40 years of experience. She serves as a project principal investigator and specialized consultant in the areas of green buildings and infrastructure, energy use in buildings, energy codes, thermal mass, and moisture mitigation. Her accumulated experience during her career has included over 500 large and small consulting, testing, and research projects. Martha has investigated moisture problems and performed energy analyses and testing for numerous concrete-, steel-, and wood-framed buildings.

## T4. Room 211B, Capacity 480

### Right-Sizing Systems with Fire, Smoke, and Egress Modeling

1.5 LUs

HSW

Experience Level: Intermediate

Fire, smoke, and egress modeling approaches can help design teams develop creative solutions for a variety of fire- and life-safety challenges. This session presents the code context that makes the use of these sophisticated tools possible and presents key aspects of the modeling process with a focus on examples involving typical atrium, fire rating, and egress situations where fire, smoke, and egress modeling approaches have been used to right-size the system.

## Learning Objectives

1. Identify the associated challenges that accompany atrium design, including code context for using modeling tools.
2. Describe the different types of floor openings including those that may not require an automatic smoke control system.
3. Explain when and how a fire model can be beneficial to a project in order to help identify alternative approaches for addressing atrium smoke exhaust and structural fire resistance.
4. Explain the process of using fire, smoke, and egress models and identify the benefits of addressing a variety of fire and life safety challenges.



**Jay Ierardi, Ph.D., PE**, is a partner with AKF Group, LLC. He is highly experienced in the fields of fire safety and code consulting for new construction, interior renovations, changes in use, and additions to existing buildings in accordance with the applicable state codes to resolve compliance issues of varying complexity. His

work includes reviewing existing conditions, performing architectural plan review at each stage of design, preparing and updating code summary reports, and coordinating code compliance issues with the design team and authorities. Jay was also a contributing author of the *SFPE Engineering Standard for Calculating Fire Exposure to Structures*.

8:45 a.m. – 10:00 a.m.

**T5. Room 208C, Capacity 209**

## Smart University as a Path to More Innovation in Economic, Environmental, and Social Sustainability

1.25 LUs | HSW | Experience Level: Intermediate

This presentation describes how equipping campuses or development districts to be test beds for data-driven research centers helps uncover new policies and more emerging technologies. Granular data generation and analytics enable the campuses and districts to meet their economic, environmental, and social sustainability goals while increasing the pace of innovation in the areas of energy, water, safety/security, transportation, environment, and communications.

**Learning Objectives**

1. Explore the ability of the Smart City or Smart Campus concept to collect data and use it to improve energy efficiency, public safety, and communication.
2. Apply environmental analysis of a working campus to transform it into a Smart Campus.
3. Predict expected benefits enabling the campuses and districts to be economic, environmental, and socially sustainable centers to improve the health, safety, and welfare of the campus.
4. Utilize foundational and funding resources to begin improving the quality of life on campus.



**Dr. Mehdi Ganji** leads the Willdan Smart Cities Team, expanding the knowledge of smart-grid technology across the company with emphasis on power system grid resiliency, reliability improvement, and smart-grid technologies. Dr. Ganji has been the principal investigator of a number of microgrid projects in the States of New York, Massachusetts, and California. Currently, he is leading the United States Trade and Development Agency Smart Campus project in Turkey. As an executive consultant to Galvin Center for Electricity Innovation at the Illinois Institute of Technology in Chicago, he has worked on more than 30 smart-grid research and implementation projects.

9:30 a.m. – 11:45 a.m.

**T6. Room 103C, Capacity 600**

## Ethics: The Unspoken Contract – Tales from Residential Architects

Sponsored by the AIA Minnesota Residential Architecture Committee

2.0 LUs | Ethics | Experience Level: Intermediate

Five AIA Minnesota residential architects will highlight stories that raise ethical questions, seeking audience input. These tales are drawn from extensive experience and will relate to the AIA

Code of Ethics as well as the AELSLAGID Rules of Professional Conduct. This program will help raise the consciousness of ethical quandaries common to our profession and nurture professional collegiality in sharing ethical issues and potential responses.

**Learning Objectives**

1. Examine the six canons of the AIA Code of Ethics and the Minnesota AELSLAGID Rules of Professional Conduct.
2. Discuss ethical quandaries common to our profession.
3. Examine your own practice of architecture and the ways in which ethical responses are required every day.
4. Nurture professional collegiality by sharing with colleagues the ethical dilemmas many have experienced.



**Ben Awes, AIA**, is founder and owner of CITYDESKSTUDIO. "Architecture is a human expression of our understanding of our place in the world. Through it we achieve shelter, but more than this, we strive for meaning, permanence, identity, and for an expression of our relationships with each other and the things around us."



**Katherine Hillbrand, AIA**, is principal emeritus, practicing with SALA Architects, Inc. for over 30 years. Katherine engages with her clients to find design solutions that articulate functional beauty. Her work includes both large and small projects and ultimately embodies the spirit of each specific circumstance and place.



**Rosemary McMonigal, FAIA, CID, LEED AP**, is owner, principal architect, and interior designer of McMonigal Architects. For over 30 years, she has provided design leadership and project management for her firm. She is actively engaged in exploring new approaches to healthy living, energy-efficient design, and sustainable construction.



**James McNeal, AIA**, is principal of James McNeal Architecture and Design. Jim starts each project with a conversation with his client, and sketches at each stage of the design process. Jim has an understanding of the historical evolution of styles and maintains the integrity of any given style with artful movement into the present day.



**Dale Mulfinger, FAIA**, is principal emeritus and cofounder of SALA Architects, Inc. in 1983 as Mulfinger & Susanka Architects. The breadth of his work at SALA includes modest remodels and additions, lakeside cabins, and urban and rural homes from St. Paul to Buenos Aires. Dale is the author of *The Cabin*, *The Getaway Home*, and *Cabinology*.



10:15 a.m. – 11:45 a.m.

**T7. Room 208C, Capacity 209**

## AIA 2019 Documents: Understanding the Changing Role of the Construction Manager

1.5 LUs Experience Level: Intermediate

The role of a construction manager in a project differs depending on whether the construction manager is serving in an advisory capacity or is also performing the construction. This presentation will discuss the role of the construction manager utilizing the AIA Construction Manager as Adviser (CMa) and Construction Manager as Constructor (CMc) documents. Attendees will learn how to properly allocate risks and responsibilities to the benefit of all. Attendees will also learn about changes in the industry since the 2009 release of the AIA's construction management documents and get a preview of how these changes are addressed in the 2019 update of the documents.

### Learning Objectives

1. Examine how the project relationships (between owner, construction manager as constructor or construction manager as adviser, architect, and contractors, in both preconstruction and construction phase services) along with the documents can be used to enhance communications, foster clear understanding, and ensure code compliance.
2. Examine how project agreements can help achieve a successful project, ensure the health and safety of building inhabitants, and provide protection to the public at large by clearly defining the responsibilities, authority, scope of services, liability and expectations of each of the parties, particularly when the construction manager is an additional participant in the preconstruction phase.
3. Examine the expanded scope of services for the construction manager and the new Insurance and Bonds Exhibit.
4. Examine the new Sustainable Projects Exhibit, incorporating the role of the construction manager into a sustainable design and construction project, and explain how it can be used to achieve goals related to award of a sustainability certification, to improve energy efficiency, and to enhance the health and well-being of building occupants.



**Patrick J. O'Connor, Jr.** is a partner with the international law firm of Faegre Baker Daniels, LLP. He has served as litigation or coverage counsel for contractors, owners, design professionals, and product suppliers in disputes in over 25 states and Canada. He also acts as a mediator, arbitrator, and expert witness in construction and insurance disputes. Since 2007, Patrick has counseled the AIA's Documents Committee in connection with numerous contract forms.



**Tom Hysell, FAIA**, is a principal at Alliance and has concentrated his career on project management for public and private clients, along with firm management. Tom has led a number of the firm's most significant projects, including the Target Center Renovation, Minneapolis Central Library, and the UMN TCF Bank Football Stadium as well as airport projects in Spokane, Washington; Brazil; and Papua New Guinea. Tom was the 2014 AIA Minnesota President and now serves on the national AIA Documents Committee.

**T8. Room 205C, Capacity 480**

## Post-Occupancy Evaluation of the Impact of Electric and Daylighting in Workplace Buildings

Sponsored by the University of Minnesota College of Design

1.5 LUs HSW GBCI Experience Level: Entry

The Sustainable Post-Occupancy Evaluation Survey identifies several indoor environmental quality categories that contribute to overall occupant satisfaction, health, and well-being, including acoustic conditions, indoor air quality, personal adjustability, daylighting, and electric lighting. This session will present the thematic analysis of occupants in 13 workplace buildings. Additionally, this session will present the findings from data collected from 30 different workplace B3 buildings.

### Learning Objectives

1. Identify several indoor environmental quality (IEQ) categories that contribute to overall occupant satisfaction, health, and well-being, including acoustic conditions, indoor air quality, daylighting and electric lighting.
2. Compare the impact of daylighting and electric lighting on occupants' ability to meet task-specific needs.
3. Examine how poor integration of daylighting and electric lighting can cause eyestrain and migraines.
4. Apply the findings from data collected from 30 different workplace B3 buildings in Minnesota to promote sustainable design and energy efficiency.



**Dr. Abimbola O. Asojo, AIA**, is the associate dean and professor at the UMN College of Design. Her research focuses on cross-cultural design issues, African architecture, computing and design, architectural lighting design, and sustainable post-occupancy evaluation. She is a registered architect and NCIDQ certified.



**Dr. Suyeon Bae** is an assistant professor of Interior Design at the University of Missouri in Columbia. She completed her Ph.D. at UMN. Her research is on post-occupancy evaluation.



**Hoa Vo** is a third-year Ph.D. student, graduate instructor, and research assistant in the UMN College of Design Interior Design program. Her research focuses on the notion of creativity, feedback as a tool to foster creativity in design-educational and -professional contexts, and human well-being in the built environment.

**T9. Room 211B, Capacity 480****Bridging and Thermal Continuity of the Building Skin: Balancing Thermal Separation with Structural Support**

1.5 LUs

HSW

Experience Level: Intermediate

Balconies, floor/wall interfaces, shelf angles, canopies/overhangs, penetrations, and parapets have a significant impact upon energy performance, condensation resistance, building durability, and occupant comfort. This session will explore the importance of thermal bridging in Minnesota and warmer climates further south. It will also go over current codes and standards, including upcoming revisions to the ASHRAE 90.1 energy standard. The speaker will also address multiple building types, wall construction, and costs, showing real-world/built examples of how thermal bridging can be mitigated at areas all around the building skin.

**Learning Objectives**

1. Examine the impact that thermal bridging can have on energy performance, condensation resistance and building durability, and occupant comfort.
2. Discuss standards and other code provisions (i.e., ASHRAE 90.1), both current and in-development, that account for thermal bridging in continuous insulation.
3. Design and detail thermal breaks to increase energy efficiency, decrease condensation potential, and meet continuous insulation code requirements.
4. Identify products, standard kit-of-part materials, and detailing methods that are available to mitigate the impact of thermal bridging.



**Will Babbington, AIA, PE, LEED AP BD+C**, facade design director, Studio NYL, has designed and realized award-winning structural and skin projects that merge high performance, high design, and constructability. He is the current national vice chair for the Building Enclosure Council and AIA National's representative on the ASHRAE 90.1 Envelope Subcommittee. Will is also on the ASTM Committee E06 on Performance of Buildings and is a developer and trainer for ASTM's and NIBS' new Building Enclosure Commissioning (BECx) certificate program.

**T10. Room 208B, Capacity 110****Notification for the Masses**

1.5 LUs

HSW

Experience Level: Intermediate

To be truly accessible to all people, the mass notification system must often go beyond the code minimums. Examples of when code minimums might not be accessible for all people are when occupants are hearing impaired, autistic, young children, physically disabled, sleeping, or hospitalized. This session will review case studies from multiple projects (including the new Quora High School and East View Academy in Little Canada) showing how codes were exceeded in order to safely notify all occupants in an emergency. This seminar will discuss the possible options to accomplish mass notification in both traditional and innovative technologies in order to truly bring mass notification to the masses.

**Learning Objectives**

1. Identify the three major categories of mass notification (in-building, wide area, and distributed recipient) and explain how each alerts and protects occupants and users in an emergency.
2. Examine the building, fire, and accessibility code minimums required for mass notification.
3. Explain why meeting code minimums may not create an alert that is accessible to all people.
4. Distinguish between the various notification systems used, examine the options available in both traditional and innovative technologies, and select the best in order to notify and protect the masses.



**Nick Oelke, PE, LEED AP**, leader of the commercial electrical engineering group at KFI Engineers, has over 14 years of experience and is licensed in over 40 states. Nick specializes in low voltage systems including telecommunications, security, audio-visual, fire alarm, mass notification, and medical low voltage systems. His

diverse experience ranges from campus telecommunication master planning to mass notification design.



**Jamin Wood** is the facilities and operations manager with the Northeast Metro 916 Intermediate School District. With 11 years of experience, he has been involved in multiple new school projects for the unique student population that NE Metro 916 serves. Each of these schools have specialized fire alarm and

mass notification systems. Jamin is also a firefighter for Princeton Fire and Rescue.

**12:00 p.m. – 2:30 p.m.****T11. Room 102E, Capacity 410****Member Congress and Lunch**

Sponsored by Mortenson

2019 was a VERY big year...and it's not over yet! At the Member Congress, you will hear about the many significant efforts – both planned and unanticipated – that were implemented or initiated in 2019, several of which will continue on for years to come. There will also be an important vote of the membership: a recommendation to formally merge what are currently two separate nonprofit organizations – the Minnesota Design Team and AIA Minnesota. (You may have thought we were always one organization; it's complicated...) And if you have served in a leadership role in AIA Minnesota or volunteered for one of our many events in 2019, we would love to see you at the Member Congress. Volunteers have made the impossible possible this year! Finally, and very importantly, the Member Congress is also a chance to hear from leaders of related organizations, including AELSLAGID's **Doreen Johnson**; to thank **Eric West, AIA**, for his exemplary service as your president; to hear from **Karen Lu, AIA**, who is slated to become your next AIA Minnesota president; and to vote in new officers and board members for 2020. Hope to see you there!

2:45 p.m. – 4:00 p.m.

**T12. Room 103C, Capacity 600**

## Keynote Address: Designing for Change

Sponsored by Kraus-Anderson

1.25 LUs Experience Level: All

Architects have an historic opportunity to be leaders in these uncertain times – to employ the transformative power of design to address some of society’s greatest challenges: advancing climate change, homelessness, disability rights, aging with dignity, and innovative education. William Leddy, FAIA, will discuss how our profession can design beyond the property lines to help lead our communities toward a just, resilient, and hopeful future for all. Providing context and examples from his firm’s practice, he will describe approaches to “mission-driven design” at two scales. Within the work: how can simple, available tools help to integrate economical, high-performance design strategies in every project? Beyond the work: how can citizen architects advocate for rapid changes in our design culture and in public policy to accelerate the arrival of a low-carbon future? It’s ALL design.

### Learning Objectives

1. Define “integrated design excellence” and name at least three requirements inherent to the definition.
2. List three best-practice strategies to promote integration of building performance into the design process.
3. Name low-cost post-occupancy evaluation methods that firms of any size can implement, and identify at least one source of additional information on this topic.
4. Name and briefly describe at least two current efforts to shift professional culture and public policy toward ecological design thinking and examine how architects and their firms can participate.



**William Leddy, FAIA**, is a founding principal of San Francisco-based LEDDY MAYTUM STACY Architects (LMSA), the 2017 recipient of the national AIA Firm Award. For over 30 years, he has been a national leader in the design of environments that celebrate our place in the natural world. LMSA has received over 175 regional,

national, and international design awards and has been recognized by numerous organizations including the American Institute of Architects, the French Institute of Architects, the Norwegian Association of Architects, the US Department of Energy, and the Urban Land Institute. The firm is one of only three in the nation to have received ten or more national AIA Committee on the Environment Top Ten Green Project awards. William has lectured widely and served as visiting professor at the Southern California Institute of Architecture and the California College of the Arts, as the Howard A. Friedman Visiting Professor at the University of California, Berkeley, and the Pietro Belluschi Distinguished Visiting Professor at the University of Oregon. He was elected to the American Institute of Architects College of Fellows in 2003 and has served on the national AIA Committee on the Environment Advisory Group (as chair in 2013) and currently, the AIA California Committee on the Environment.

4:00 p.m. – 6:00 p.m.

**T13. FREE!**

## Exhibit Hall

Join us for the Opening Night Party & Beer Crawl in the Exhibit Hall, featuring more than 200 exhibitors showcasing new products and services. Enjoy live music and light snacks, mingle with exhibitors, shop in the Pop-Up Bookstore, and bid on some great art at the Urban Sketchers Silent Auction benefiting the Minnesota Architectural Foundation (MAF) and Urban Sketchers–Twin Cities.

6:00 p.m. – 7:30 p.m.

**T14. Room 103C, FREE! Capacity 600**

## Keynote Address: Creatively Housing the Homeless

Sponsored by the AIA Minnesota Housing Advocacy Committee

1.5 LUs HSW Experience Level: All

The Minnesota Design Center (MDC) at the University of Minnesota, with funding from the Pohlad Foundation, has partnered with Hennepin Healthcare, Street Voices for Change, Alchemy Architects, the UMN School of Architecture, and Project for Pride in Living to develop a community-focused approach to housing Hennepin County’s homeless population. Called “Envision Community,” the project has developed a prototype housing unit, with the goal of building the first community in 2020. At the same time, the MDC has worked in the East Metro with a new nonprofit, Settled, and several religious institutions on another variation of a community-first approach to extremely affordable housing. Settled and the MDC have developed a prototype housing unit able to be built by the homeless population and members of the faith community, and we are pursuing the establishment of tiny home communities of houses on religious land, enabled by the Federal Religious Land Use and Institutionalized Persons Act. In both cases, innovations have occurred not just in the unit designs, but also in the funding and producing of these communities as well as in overcoming regulatory barriers.

### Learning Objectives

1. Examine how extremely affordable housing can improve the health of our most needy fellow citizens.
2. Discover how the health community and faith community have partnered with the design community to innovate new ways of delivering extremely affordable housing and increasing the accessibility of housing to many.
3. Examine how a community-first approach can greatly improve the health and welfare of the homeless population.
4. Explain how design thinking can reframe existing assumptions and realize innovations in the face of a resistance to change.





**Gabrielle Clowdus** is the founder and executive director of Settled, a nonprofit organization dedicated to a community-first approach to extremely affordable housing. She is a Ph.D. candidate in Housing Studies at UMN and has an M.Arch degree from the NewSchool of Architecture & Design in San Diego, CA.



**Thomas Fisher, Assoc. AIA**, is a professor in the UMN School of Architecture, the Dayton Hudson Chair in Urban Design, and the director of the Minnesota Design Center at the UMN College of Design. Tom was recognized in 2005 as the fifth-most published writer about architecture, having written 10 books, over 50

book chapters or introductions, and over 400 articles in professional journals and major publications. He has been named a top-25 design educator four times by DesignIntelligence.™



**Jacob Mans, AIA**, is an assistant professor in the UMN School of Architecture. His work focuses on the influence of large-scaled environmental systems on small-scaled building performance, looking at how building systems can spur local economic development.



*Members of the Envision Community Team (from left to right): Rome Darring, Envision Leader; **Dewayne Parker**, Envision Leader and AIA panel participant; Junail Anderson, Envision Leader; Sherry Shannon, Envision Leader; Freddy Toran, Envision Leader; and **William Walsh**, Envision Advisor and AIA panel participant.*

**Dewayne Parker** joins us from Street Voices of Change, which is comprised of groups of individuals who have current or past personal experiences with homelessness who come together to build community and make positive changes in the lives of people experiencing homelessness and the systems that contribute to and keep people in homelessness. SVoC is a place where people invest in and empower each other to build a loving community that recognizes the trauma of homelessness and seeks to restore dignity in every aspect of the experience.

**Dr. William Walsh** has extensive training and experience as both an artist and a surgeon. This combined surgical and artistic training allows him to practice the full spectrum of facial plastic and reconstructive surgery in both children and adults.



**Geoffrey Warner, AIA**, is the founder and principal of Alchemy Architects. Educated in architecture at UMN, his completion of the first weeHouse in 2003 gained international attention as a symbol of architectural optimism. Since then, Alchemy has developed the weeHouse as a prefabricated answer for cabins, houses, offices, rooftop studios, and multi-unit developments, and has completed over three dozen prefabricated projects around the United States.

## WEDNESDAY, NOVEMBER 13

8:00 a.m. – 10:00 a.m.

**W15. Room 103C, Capacity 600**

### Ethical Design in the Era of Climate Change

2.0 LUs

HSW

Ethics

Experience Level: Intermediate

As our society faces increasingly complex challenges, from climate change, to social equity, to an emphasis on individual well-being, architecture provides a primary means to address these problems head-on. With the landslide vote to adopt the Resolution for Urgent and Sustained Climate Action at A'19, the architecture community signaled its desire to choose relevance in the era of climate change, by adopting a Framework for Design Excellence.

#### Learning Objectives

1. Examine the AIA's Framework for Design Excellence and explain its ethical implications, as well as its impact on climate change, social equity, and individual well-being,
2. Examine the COTE Toolkit and describe how the best practices in this resource can be used to show the impact of a project on sustainable measures such as community, ecology, energy, water, resilience, and health resources.
3. Review case studies of projects where the framework has been implemented locally and identify ways in which high building performance and design excellence has been achieved.
4. Explain and practice according to the AIA Code of Ethics and Professional Conduct under Ethical Canon VI, Obligations to the Environment with regard to Ethical Standard 6.5: Climate Change.



**Becky Alexander, AIA**, LHB Inc., is an architect with a M.S. in Sustainable Design, combining performance services with architectural design in her work. Becky plays a key role in several significant statewide initiatives to reduce energy consumption and greenhouse gas emissions in Minnesota. Her research involves collecting, analyzing, visualizing, and synthesizing data at building, organization, and city-wide scales.



**Simona Fischer, AIA**, is an architect with a M.S. in Sustainable Design. She offers deep knowledge in sustainable materials and the building products industry. Simona is an organizer of Twin Cities design practitioners who are passionate about sustainability. She studies systems theory, conducts research, starts conversations, and seeks conspirators to transform architectural practice.



**Tyson McElvain, AIA**, Snow Kreilich Architects, has a passion for merging design and construction to deliver projects to clients that are both well-conceived and well-detailed. Since 2005, Tyson has helped to advance the office's sustainable design initiatives and construction administration excellence across all projects. Tyson is the firm's leading voice for all documentation, sustainability, project specifications, and construction administration and has established a robust QA/QC process to ensure integration across all disciplines.

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8:00 a.m. – 10:00 a.m.

**WI5. (continued)**



**Tate Walker, AIA**, director of sustainability at OPN Architects, leads projects and initiatives across the firm. His experience is rooted in the architectural design process, but includes program and project management and the development of technical guidelines for high-performing buildings. He has served many organizations, including cities and universities, AIA's Committee on the Environment, 2030 Commitment Working Group, and the USGBC's Energy & Atmosphere Technical Advisory Group.

**WI6. Room 102D, Capacity 280**

**Cohousing: Designing a Community for Interaction**

2.0 LUs HSW Experience Level: All

Cohousing is a form of intentional community which minimizes the square footage of individual dwellings and maximizes the common areas in order to ensure social interaction. Single-person households are now 28 percent of the population and rising rapidly. Studies show that loneliness curtails longevity even more than obesity or smoking! Living in community—but with your own separate residence—is one way to address this public health epidemic.

**Learning Objectives**

1. Examine the concept of cohousing and describe its defining elements.
2. Explain how cohousing enhances well-being, happiness, and longevity.
3. Explain how cohousing enriches the surrounding neighborhood and larger community, connecting residents and creating a safer place to live.
4. Consider ways in which cohousing contributes to a more sustainable way to live.



**George Abert, AIA, LEED AP**, is an architect and cohousing development consultant. He is officed in the Florida panhandle but has worked internationally. He has previously presented for USGBC Florida on the topic of cohousing and sustainability.



**Nola J. Hitchcock Cross** is an attorney and development consultant for cooperatives and cohousing based in Milwaukee, Wisconsin. She has developed cooperative housing with HUD-insured loans and has in-progress urban cohousing in Milwaukee and an agrihood in Oak Creek, Wisconsin.



**Lynn Englund** is a partner at Hopework, LLC, consulting with organizations to develop and deliver small-group workshops and retreats on topics of interest. Lynn is a family educator who works in formal and informal educational settings to help individuals meet the everyday challenges of family life and to enhance their experience of family and community.

8:30 a.m. – 10:00 a.m.

**WI7. Room 102C, Capacity 280**

**Good Design: The Client's Perspective**

1.5 LUs Experience Level: Intermediate

We as architects can learn much from our own clients about how to provide better service, achieve our design goals, and win repeat business. Some clients build only once every twenty or thirty years; others are “professional clients” who represent organizations whose missions revolve around buildings. One part of the professional client's job is hiring and managing architects, and they know well what they want and need from architects and the design process. Hear what this panel of local professional clients has to say about how they work with architects to achieve good design.

**Learning Objectives**

1. Describe what clients are looking for when they decide to hire architectural services.
2. Examine ways to increase the chances of winning important projects and repeat work from professional clients.
3. Explore what is good design, what is good service, and consider whether you can have both.
4. Explore the types of things that can go wrong between clients and architects and describe how architects can protect against misunderstandings and mismatched expectations.



**Peter Hendee Brown, AIA, AICP, PH.D.**, is an architect, planner, and development consultant. His focus is public-private development projects. Since 2010 he has consulted to the City of Minneapolis on US Bank Stadium, the Downtown East Commons, Nicollet Mall, Hennepin Avenue, the City Public Service Building, and Peavey Plaza. Peter is the author of *How Real Estate Developers Think: Design, Profits, and Community*, and *America's Waterfront Revival: Port Authorities and Urban Redevelopment*.



**Margo Geffen**, director of Facility Services, Hennepin County, oversees the department that maintains and operates over 130 buildings, county building security, and the planning, engineering, and design of construction projects. Margo joined Hennepin County in 2014 as the manager of the Housing Development and Finance Division. Prior to working at the county, Margo worked for private and nonprofit development companies in property management, project development, and land acquisition and disposition.



**Michael Kisch, AIA**, design phase manager, Mortenson Construction (Sports + Entertainment Group), will moderate this panel discussion. He brings an expansive approach to practice and leadership. His 18+ year career has spanned private and public sector arenas, working on projects across the globe and market typologies. Recognized as a 2018 AIA Minnesota Young Architect, his approach to practice is focused on the role and value of positioning design conversations earlier in a project.



**Dick Strassburg, RA**, partner, Tegra Group, is recognized locally and nationally for his innovative and principled leadership. Dick has provided insightful guidance on a long list of high-profile private and municipal projects throughout the country, including Target Field, which boasted a zero-item punch list

on opening day, a feat never before achieved in construction of any modern major league sports facility.



**Miranda Walker** is a project manager for Aeon, a Minneapolis-based nonprofit affordable housing developer. Miranda joined Aeon in September 2010 bringing with her a range of professional experiences that include work with HandsOn Twin Cities, Habitat for Humanity, Project for Pride in Living, and Minnesota

Housing Finance Agency. Prior to graduate school, Miranda spent a year volunteering for AmeriCorp VISTA in the Mississippi Delta where she coordinated a regional farmer's market network.

### WI18. Room 211B, Capacity 480

## Learning from Nature: Integrating Wood Cladding with Client Goals

1.5 LUs HSW Experience Level: Entry

The Bell Museum is a destination for anyone curious about life on earth. The entire project site is a learning landscape and helps it exceed State of Minnesota B3 sustainability requirements. Even the building skin offers a natural history story about our state. Located on the St. Paul campus of the University of Minnesota, the Bell Museum is clad in white pine harvested, thermally modified, and milled in northern Minnesota. Harvested from Minnesota forests that are ecologically managed and certified to Forest Stewardship Council criteria (FSC), this distinctive and durable solution enabled the university to embody the values and cultural goals of the institution within a beautiful building facade. Integrated into its own learning landscape, the building offers meaningful connections to nature through circulation, views, and materiality. This case study reviews a range of wood cladding options considered for the building. The team will share material and detailing research, highlighting material alignment with the culture and aspirations of the Bell Museum.

### Learning Objectives

1. Develop criteria for assessing sustainable wood cladding treatment options, the impact these technologies have on the built environment, and how they can improve environmental health.
2. Recognize the wood product lifecycle, and be able to identify the techniques and requirements for detailing a long-lasting wood envelope that protects the building and its occupants—and also understand the potential of these products for reuse and recyclability.
3. Apply qualitative and quantitative research methods, be able to identify and avoid toxic compounds found in some wood products, and choose safe and healthy wood products that improve the quality of the built environment and protect the occupants' health.

4. Utilize the Natural Resources Research Institute (UMN – Duluth) as a resource for professional practice, and understand its impact on Minnesota sustainable forestry practices, building construction, and how its research enhances the safety and health of the built environment.



**Doug Bergert, Assoc. AIA**, is a senior project designer and associate at Perkins and Will. Doug championed the use of wood siding on the Bell Museum and was instrumental in the development of the cladding system. A Professor in Practice at the UMN School of Architecture, Doug brings curiosity, rigor, and innovation to his clients' projects.



**Pratibha Chauhan** is a workplace strategist at Perkins and Will, who is passionate about applying a user-centric approach to problem solving. She enjoys drawing connections across familiar and unfamiliar things to experience a problem in a new, yet intentional, way.

A graduate of the UMN M. Arch and M.S. in Architectural Research Practices program, Pratibha is the author of a 2017 study of wood treatment technologies, with emphasis on post-harvest cellular modification.



**Patrick Donahue** is the building materials research program manager for the Natural Resources Research Institute at UMN Duluth. The building materials research program's focused goal is to find new value-added, wood-based construction streams for Minnesota's sawn timber industry, including all mill residues. Pat's

expertise played a critical role in the selection of thermally modified white pine for the Bell Museum. Pat has deep industrial development experience in the wood-based industrial (OEM) and building materials sectors.

8:45 a.m. – 10:00 a.m.

### WI19. Room 208B, Capacity 110

## Cultural Competency for Community Engagement, Planning, and Design

1.25 LUs Experience Level: Intermediate

It is natural for human beings to surround themselves with people who are like them. This statement is fundamental to understanding the importance of and inherent challenges in community engagement. This session will examine the role that cultural competency plays in community engagement, planning, and design processes. It will provide a foundation for cultural understanding, address the need to recognize your conscious and unconscious biases, explore strategies to build stronger relationships, and offer tools to reframe and transform conflict.

### Learning Objectives

1. Examine effective ways of working with people from different backgrounds.
2. Experience the spectrum of cultural understanding and steps for success through case study examples.
3. Discover how to advance cultural competency skills to better meet the project needs of the community.
4. Use and apply new tools for planning and conducting community engagement.

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8:45 a.m. – 10:00 a.m.

## W19. (continued)



**Ashlyn Crawford** is a community engagement specialist for the 106 Group, an award-winning, woman-owned firm, whose work is rooted in connecting people, place, and time. Ashlyn is a strong facilitator with a range of tools for dialogue and collaboration with diverse communities. She gained creative problem-solving skills through her experience in state government, nonprofits, student advocacy, facilitation, planning, and as a liaison for multicultural student groups.



**Regine Kennedy** leads 106 Group's Planning & Engagement team. She is an experienced planner and resourceful project manager who has worked at parks and heritage sites across the country. Her interpretive planning, facilitation, research, writing, and exhibit development have resulted in excellent products that are appreciated by clients and their constituents. Her work has engaged a variety of diverse stakeholder groups, including several American Indian tribes.

## W20. Room 208C, Capacity 209

### Using BIM Data to Automate Project Benchmarking

1.25 LUs Experience Level: Intermediate

Approaching two decades of Building Information Modeling (BIM) in the industry, many have perfected the use of BIM to develop document sets and elevate coordination processes. But what value does that offer after the project is done? This program will explain how to turn that untapped resource of completed projects into a source for future project benchmarking. Gone are the days of relying on manual data entry to develop one of our most valuable datasets. Now, a dataset exists from which questions can be answered quickly, consistently, and accurately. In this session, we will share how this solution was developed and how we plan to put this to use in the future.

#### Learning Objectives

1. Summarize strategies for selecting relevant data points focused on the quality of project planning and design coordination.
2. Identify low-impact, scalable data extraction and quality control methods for creating a benchmarking data set.
3. Describe how a global architecture practice has tested and implemented a project benchmarking database.
4. Leverage Revit-derived BIM data to build project benchmarks and enable better informed decision making using comparative analysis at multiple stages engaging multiple stakeholders.



**Rachel Riopel, AIA**, digital design managing principal, HDR, Inc. has over 14 years of experience in multi-discipline architectural practice. Her mission is to empower HDR's architecture practice with effective applications of technology. Her primary focus is to maximize efficiency and improve quality of project delivery by driving measurable results.



**Kristen Schulte** is a licensed architect with Proving Ground. Kristen is well versed in the application of new processes and technologies in architectural practice. She has overseen multiple concurrent projects from start to finish with an emphasis on BIM management, consultant coordination, and shop drawing review.

10:15 a.m. – 11:30 a.m.

## W21. Room 102D, Capacity 280

### Greening Demolition Projects

1.25 LUs HSW GBCI Experience Level: Intermediate

Improper management of waste from demolition projects is a significant issue in Minnesota, with asbestos found in roughly 92 percent of residential and 80 percent of commercial buildings that have been demolished in Ramsey County in the last eleven years. In response to the growing concern around "dirty demos," Ramsey County developed a pre-demolition inspection program to educate contractors, identify items that need to be removed, and provide outlets for reuse or disposal. Since the program's inception 11 years ago, the County has completed over 1,600 pre-demolition inspections and worked with over 150 demolition contractors and all of the county's 19 cities and townships. Looking to the future, it will use this network to increase demolition waste diversion from landfills and increase outlets for building material salvage and reuse.

#### Learning Objectives

1. Identify the hazardous materials that are often found in a demolition site.
2. Explain how to safely dispose of these hazardous materials, getting them and other demolition waste to the right place in order to protect those doing the work and the future of the environment.
3. Leverage landfill diversion strategies by directing increased use of outlets for building material salvage and reuse, decreasing toxic leaching and groundwater contamination which may impact the health of nearby residents.
4. Make use of Ramsey County's pre-demolition inspections in order to increase safety of workers and a healthier environment for residents.



**Michael Reed** works in Solid and Hazardous Waste Compliance for Ramsey County. He has worked in the waste management field for 30 years, in roles ranging from managing a solid waste landfill, to consultant, to regulator. He has been a part of Ramsey County's 11-year initiative performing pre-demolition inspections, identifying regulated materials in buildings, and promoting deconstruction practices as part of building material strategies to recover used building materials rather than landfilling them.

**W22. Room 208C, Capacity 209****Learning from the Wall of Forgotten Natives**

Sponsored by the American Indian Council of Architects and Engineers (AICAE)

1.25 LUs HSW Experience Level: Entry

Legal and political constraints, complicated funding mechanisms, continued discrimination, and a lack of infrastructure are just some of the forces that contribute to a critical shortage of adequate housing in Native American communities. Homelessness and poverty continue to be important issues for the design community to discuss and address. The local Native American community is dedicated to developing strategies to create culturally appropriate and affordable housing. Successful housing must create a strong sense of place and reflect the diverse range of cultural and artistic expression unique to each tribe. This session will encourage an open and interactive discussion of the central issues in tribal housing design and the efforts of Native American and community members working to lead a fundamental shift toward culturally appropriate design solutions and self-determination.

**Learning Objectives**

1. Examine the historical issues that have contributed to poverty and homelessness in the Native community.
2. Explore how local Native leaders are coming together to find effective ways to address issues of homelessness and affordable housing.
3. Discuss the role of the design community in addressing homelessness.
4. Describe the need for honoring culture as a critical part of the Native American design process.



**Sam Olbekson, Assoc. AIA**, founding principal, CEO, Full Circle Indigenous Planning, has more than 20 years of experience as an interdisciplinary designer, working successfully with Native American clients on dozens of culturally significant planning and design projects throughout Indian Country. An enrolled member of the

White Earth Nation of Minnesota Ojibwe, Sam is one of the few Native Americans practicing both large-scale tribal master planning and culturally sensitive building design. He has a M.Arch in Urban Design from the Harvard Graduate School of Design as well as a B.Arch from Cornell University. He currently serves as president of the board of directors for the Minneapolis American Indian Center; board chairman for the Native American Development Institute; and board president for the American Indian Council of Architects and Engineers (AICAE).

**W23. Room 208B, Capacity 110****State Designer Selection Board: What Works & What Doesn't!**

Sponsored by the AIA Minnesota Government Affairs Committee

1.25 LUs Experience Level: Advanced

Members of the State Designer Selection Board (SDSB) will share their perspectives on how to be more effective in SDSB proposals and interviews. Whether it's a 20-page proposal or a 20-minute interview, hear what often trips up firms and what

makes a concise, winning proposal and subsequent interview. The session is designed to allow the audience to ask questions and give feedback on the process.

**Learning Objectives**

1. Examine what goes into the selection process.
2. Identify the resources available through the SDSB website.
3. Describe common missteps that firms should avoid when submitting proposals and doing interviews.
4. Discuss and provide feedback and recommendations to the board to improve the process.



**Bill Beyer, FAIA**, is an architect with 46 years of professional experience, who worked his first 34 years in a traditional architectural practice and his last 12 with the Opus AE Group in a design/build practice. He has served on the SDSB since January 2018. He has served as president of AIA Minneapolis and AIA Minnesota, president of the Minnesota Architectural Foundation, and as a regional director on the AIA national board.



**Katherine Leonidas** was a principal at BWBR until retirement in January 2015. In her working career she submitted proposals to the SDSB numerous times — some were successful, and some not. Katherine is serving her second term on the SDSB.



**Yan Shagalov, PE**, was a principal and director of engineering at HGA Architects and Engineers until his retirement in 2015. He serves on the SDSB representing ACEC/MN. During his career as a structural engineer, Yan was involved in designing many high-profile projects, including the renovation of the State Capitol, General Mills Headquarters, the Weisman Museum, and Mayo Clinic projects.

**W24. Room 102C, Capacity 280****Winning Ways to Pass the Client Relationship Baton**

Sponsored by the AIA Minnesota MFBA Committee

1.25 LUs Experience Level: Intermediate

Client relationships, where founders have forged close, loyal, and productive partnerships, have real value and are a vehicle for transferring a firm's DNA from one generation to the next. This session will highlight the rewards of effective client relationship continuity planning. We will draw from evidence and anecdotes gleaned from "Best Practices in Client Relationships," an ongoing research effort based on interviews with 25 AIA Architecture Firm Award winners. Participants will be given a template for client relationship planning that embraces next-generation leaders as well as senior leaders who provide enormous meaning to the practice but are in transition.

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10:15 a.m. – 11:30 a.m.

## W24. (continued)

### Learning Objectives

1. Create opportunities to communicate the firm's vision and values so that its DNA, the things that matter most, can be transferred from one generation to the next.
2. Lead a strategic process for choosing which client relationships to focus on over time, and chart a plan for continuous, proactive investment in those clients.
3. Assure relationship continuity by being more proactive and including multiple generations of professionals at the same time in client relationship development throughout project acquisition and delivery.
4. Work as a team in client relationship development and collaborate to strengthen the client relationships that are central to the firm's value, despite the very emotional nature of this challenge.



**Alita Bergan** leads the business development and marketing efforts at Snow Kreilich Architects, AIA's 2018 Firm Award winner. Alita works closely with Julie Snow, FAIA, and Matt Kreilich, FAIA, and other studio leaders to develop and maintain relationships with clients and guide the trajectory of the firm.



**Jon Buggy, AIA**, principal, RSP Architects, has 30 years of architectural experience, a big smile, a hearty laugh, and a positive vision for the future. Jon is a trusted and respected architect and design leader with numerous successful projects and client relationships locally, nationally, and globally.



**Kelly Fehr**, principal, Cameron MacAllister Group, advises architects on strategic client relationship development. She created the "Discovery-Driven Client Development Model" to help firms implement proactive business development programs designed around culture, vision, and values. Kelly also developed

"A More Productive and Fun Approach to Business Development," which is one of eight courses included in the AIA's Business Foundations Certificate Program.

## W25. Room 211B, Capacity 480

### Thoughtful Finishing and Environmental Stewardship

1.25 LUs

HSW

Experience Level: Intermediate

On average, the finishing of a 3,000-square foot home will utilize over 10 gallons of coatings in the form of paints and stains. The content of those coatings has an enormous impact on the applicators who spray them, the environment in which they are sprayed, and the individuals who come in contact with the finishes for years to come. This program will explain the significant advancements that have been made in the last 10 years to create coatings that are not only durable but also have a gentler impact on our environment.

### Learning Objectives

1. Explain the negative impact that the coatings industry has on our planet, on the health of those who apply coatings, and on the health of those who come into contact with the finishes.
2. Recognize the importance of knowing the percentage of Volatile Organic Compounds (VOCs) in the finishes specified and the health effects they have on those who come into contact with them.
3. Explain the health and performance differences between solvent- and water-based finishes and recognize industry standards.
4. Learn the options for specifying coatings and the process for an environmentally-conscious finishing process.



**Holly Bayer, ASID**, Bayer Built Woodworks, Inc., is an award-winning residential designer. The 18 years of experience Holly has in the shelter industry has afforded her an opportunity to help Bayer Built Woodworks view the full sales cycle, from schematics to project completion, and to understand the needs of all individuals involved in that process.



**Aaron Bayer** is operations manager of the pre-finishing shop at Bayer Built Woodworks. He has spent countless hours learning, understanding, and manipulating every step of both solvent and water-based UV coating systems, placing him at the forefront of coatings technology. Aaron directs a team of over 90 employees as they utilize technically advanced finishing equipment to achieve a commercially rated finish, every day of the week. He has firsthand knowledge of how, when, and why to utilize which finishes for optimal results.



**Jason Kitner** works in Prefinished Sales for the Midwest Division of Sherwin-Williams.

## W26. Room 213B, Capacity 60

### Hosting the 2019 AIA Women's Leadership Summit

Sponsored by the AIA Minnesota Women in Architecture Committee

1.25 LUs

Experience Level: Entry

Curious about what you might have missed at the 2019 AIA Women's Leadership Summit? In this session, a group of panelists will explore the history of the Summit and its impact on our industry. We will discuss the theme of this year's Summit: Reframe. Rethink. Refresh. A multigenerational group of architects will present key takeaways. And we will facilitate an interactive discussion about next steps and the positive impacts our Minnesota community has had – and will continue to have – on the inclusiveness of our industry.



## Learning Objectives

1. Examine how the Summit has evolved over the years, and how the participation of women in architecture has evolved over the past two decades.
2. Explore how the Summit met the goals of raising the profile of women in the profession, examining new paths to leadership, and addressing the learning environment that supports multiple career stages.
3. Identify major themes of the Summit and describe key takeaways from participants.
4. Discuss the impact of the Summit locally, and explore next steps in order to maintain momentum toward raising the profile and number of women in the profession.



**Amanda Aspenson, AIA**, is design project manager for UMN Capital Project Management (CPM). She is responsible for managing system-wide campus architecture and interiors and working inclusively with internal and external project teams. Amanda works to strengthen the University's commitment to sustainability

by leading the B3/SB 2030 process within CPM. She is a co-founder of the AIA Minnesota Women in Architecture Committee.



**Sally Grans Korsh, FAIA, LEED AP**, is the senior advisor of facilities management & environmental policy for the National Association of College & University Business Officers (NACUBO) in Washington, D.C. Prior to this national position she was System Director of Planning for Minnesota State Colleges & Universities,

served as a project manager in the state architect's office, and founded her own small business in private architectural practice serving nonprofit and community-based organizations.



**Amy L. Kalar, AIA, LEED AP BD+C**, is a registered architect at Cuningham Group Architecture with over 15 years of experience in the field. Amy is a member and co-founder of AIA Minnesota's Women in Architecture Committee and is currently president of the Minnesota Architectural Foundation. Today, Amy continues to

advocate for women in architecture and sheds light on the daily issues that women face within the profession.



**Katie Pope, AIA, CID, LEED AP ID+C**, is a design manager at Gensler focusing on the workplace and hospitality practice areas. Katie's background in both architecture and interior design offers her the flexibility to lead project teams in various roles. She is actively involved in multiple industry organizations and current

co-chair of the AIA Minnesota Women in Architecture Committee.



**Dana Saari, AIAS**, is working toward her B.S. in Architecture at UMN, and is an architecture intern in the GROW group at Cuningham Group Architecture. With a background in figure drawing and sculpture, she is interested in the intersections of identity, technology, art, and philosophy as it pertains to the built environment.



**Rachel Usher, AIA, LEED AP**, is a senior associate at ESG Architecture & Design. Since launching her architectural career more than 15 years ago, Rachel has taken a distinctive approach to practice that emphasizes empathy and user experience. As co-chair of AIA Minnesota's Committee on Equity, Diversity and

Inclusion, she works with her colleagues to shift the demographic makeup of the design profession to better reflect the gender, race, and cultural diversity of our community and clients.



**Heather Whalen, AIA, NCARB, LEED AP**, is a vice president and partner at ESG Architecture & Design, with over 20 years of experience in the architectural profession specializing in restaurant and hotel projects. Heather is a current co-chair for the AIA Minnesota Women in Architecture Committee and has been

integrally involved in the planning effort for the 2019 AIA Women's Leadership Summit. As a new ESG Shareholder, Heather plans to bring an added female perspective to the ongoing conversations about equity in the profession.

**10:15 a.m. – 12:15 p.m.**

**W27. Capacity 30, Tour**

## Vertical Endeavors Tour—Informing Design with Augmented Reality

1.5 LUs Experience Level: Entry



Learn how Virtual Reality (VR) and Augmented Reality (AR) technologies are advancing the design process at LHB, Inc. and helping their clients better understand design outcomes. You will hear directly from the client how this advanced process

helped Vertical Endeavors and Nicros design the "best climbing facility in the country" and how it has changed their approach to future projects. The tour will include an onsite presentation of how digital 3D data of the climbing walls, designed and provided by the client, was combined with the LHB-created BIM fit-out model.

## Learning Objectives

1. Identify the benefits of using AR in architecture.
2. Examine hardware and software options to implement AR.
3. Explain the limitations and challenges of using AR for AEC projects.
4. Practice using AR firsthand using real-world projects.

**R. Bruce Cornwall**, design director, project principal, project manager, and planner, LHB, Inc., has over 36 years of architectural experience with an emphasis on commercial, higher education, and community facilities. Currently, he is the director of design for LHB's Studio 360 and is working with a wide variety of highly valued clients including North House Folk School, Wenger Corporation, Vertical Endeavors, Inver Hills Community College, Donaldson Company, the City of Woodbury and the National Eagle Center.

**Tracy Paino**, vice president, Nicros, Inc. & Vertical Endeavors, worked as an educator and administrator in higher education for over 20 years. He has been a national motivational speaker and representative for a nonprofit organization helping youth and children in poverty around the world. While spending more than two decades as a college professor and dean, he also served as a college basketball coach and rock-climbing instructor. This is how he was introduced to Nicros and Vertical Endeavors Climbing Gym, for which he's been an instructor, outdoor guide, shift manager, and part-time assistant facility manager.

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10:15 a.m. – 12:15 p.m.

## W27. (continued)

**Nate Postma**, president and owner, Nicros, Inc. & Vertical Endeavors, has more than 20 years of experience in the design, construction, and operations of artificial climbing walls. He is a founding member of the Climbing Gym Association (CGA), the Climbing Wall Association (CWA), and a past board member for the Climbing Wall Industry Group (CWIG). Nate owns and operates Vertical Endeavors, several large commercial climbing gyms, and has been an avid climber for more than three decades.

**Daniel Stine, AIA, CSI, CDT**, design technology manager, LHB, Inc., is an author, blogger, educator, design technology manager, and Wisconsin-registered architect with over 20 years of experience. Dan teaches BIM to graduate architecture students at North Dakota State University (NDSU) and lectures annually to interior design students at UMN. He has presented internationally on topics related to BIM, energy modeling, lighting analysis, and more.

° The bus will leave the Convention Center at 10:15 a.m. from the Main Entrance by the Ballroom.

11:15 a.m. – 2:30 p.m.

## W28. FREE!

### Exhibit Hall

Find new products for your next project as you peruse the Exhibit Hall. Walk around, engage, and get educated on the latest technology. Have lunch in the Café Lounge, bid on some great original art, and shop the bookstore.

2:30 p.m. – 4:00 p.m.

## W29. Room 102D, Capacity 280

### Dense, Energy-Efficient, Affordable Housing

Sponsored by the Minnesota Concrete Council

1.5 LUs | HSW | GBCI | Experience Level: Intermediate

New York City is the densest city in the country and because of its density, has the lowest carbon footprint per capita of any city in the US. There is a growing need to increase city density in order to house a growing population, and a need to do so in a low-carbon manner. This presentation will show eight examples (four complete at the time of the presentation) of affordable Passive House (PH) projects including the largest PH project in North America. We will also discuss a new concept in family shelter design to show other low-carbon footprint solutions to additional housing issues.

#### Learning Objectives

1. Explain how our carbon footprints can be reduced through density, which in turn decreases greenhouse gas emissions and positively impacts climate change.

2. Explain how using Passive House design, a high-energy-efficiency model, can be applied to multi-family residential buildings.
3. Examine the design and construction elements of the Passive House model as well as other low-carbon footprint solutions for dense, affordable, housing needs.
4. Examine strategic design systems including envelope – insulated concrete forms, air vapor barrier detailing, windows; ERV centralized vs unitized; VRF systems and alternatives.



**Mark Ginsberg, FAIA, LEED AP**, is a partner of Curtis + Ginsberg Architects LLP in New York City. He has over 35 years of professional experience in planning, urban design, institutional, and housing projects with expertise in affordable and mixed income housing, resiliency, and green design. Mark has led

C+GA's efforts on developments that comprise well over 12,000 units of housing. Mark is a past president of the AIA New York Chapter, a board member of the New York State Association for Affordable Housing (NYSAAFH) Board of Trustees and is president of Citizen's Housing and Planning Council.

## W30. Room 208B, Capacity 110, Workshop

### Trauma-Informed Design: A Discussion on Environmental and Community Resiliency

1.5 LUs | HSW | Experience Level: Intermediate

This session will focus on the experience of three panelists who have worked at the intersection of architecture and traumatic human experiences, creating spaces and places for communities and people to heal and work and remember. The leaders will define trauma, the ways it can impact a design process, and outcomes. The program will also explore how the design process itself can promote physical, mental, and social health, leading to design that can ensure physical safety from harm and danger, and can support mental health. Following an introductory presentation, attendees will engage in a series of roundtable inquiries that will identify things we can do to create environments of learning, healing, working, and remembering in our practices of design.

#### Learning Objectives:

1. Explain the Trauma-Informed Design process and approach, and how it creates spaces and places for healing.
2. Learn strategies to apply to the design process that will also improve the physical, emotional, and social well-being of users.
3. Explore planning approaches to elevate the human experience and encourage social interaction.
4. Ideate on best practices to create supportive design options for workplace, schools, and public spaces that ensure physical safety from harm and danger, and support mental health.



**Teri Kwant**, associate principal, RSP Architects, is an accomplished experience design consultant, designer, and public artist. She leads RSP Dreambox, a human-centered experience design studio within RSP. She has led research and created experiences for a broad range of clients, ranging from healthcare to corporate

to community-based experiences, all from an experiential, functional, and multi-sensory point of view.



**Katie Lindenfelser** is founder and executive director of Crescent Cove, a respite and hospice home for children with shortened life expectancies and their families based in Minnesota. She is a music therapist, massage therapist, and reflexologist who has worked with children and young adults in hospice and hospital care environments internationally.



**Joan MacLeod**, principal, DF/Damon Farber Landscape Architects, has practiced landscape architecture for the past 25 years and won numerous awards for a variety of projects. Joan's professional and personal experience in community arts, site and urban design, higher education, and cultural institutions has resulted in a commitment to building strong, sustainable communities.



**Julia McFadden, AIA**, holds a B.A. in Theatre Arts and an M. Arch. degree, both from the University of Minnesota. She is currently an associate principal with Svigals + Partners Architects, known for its imaginative integration of design, sculpture, and artwork. She was the project architect/manager for the rebuilding of the Sandy Hook School in Newtown, Connecticut after the 2012 shooting and is currently working to establish the New Haven Botanical Garden of Healing for Victims of Gun Violence.



**Marlene Miller Pratt, NBCT**, has a B.S. in Education (Science) and an M.A. as a Reading Specialist, with over 30 years of teaching experience in public schools in Connecticut and North Carolina. She is currently a high school science teacher in New Haven, Connecticut, where her 20-year-old son Gary Kyshon Miller was shot and killed in 1998. Dismayed by the lack of attention on the ramifications of gun violence on families and neighborhoods, she formed a nucleus group with four other mothers in 2017 to commemorate the forgotten children of gun violence and raise awareness across the country.



**Dannell Shu** is a pediatric palliative care educator, consultant, speaker, and blogger, who is known as a strategic educator. She inspires people to live engaged lives through soulful resilience. A veteran professional dancer, Dannell holds a BFA in Dance, a Masters in Christian Worship Studies, an expansive somatic movement training, and a professional dance career spanning two decades.



**Sarah Super, M.Ed.**, is a training & curriculum specialist at the Battered Women's Justice Project. She is passionate about working toward social justice and healing through education, activism, and mind-body practices. Sarah has experience in training, consulting, and program development in mission-based organizations including Hennepin County, the YWCA of Minneapolis, the Trauma Center at the Justice Resource Institute, and the Human Rights Center at the University of Minnesota. Sarah is the Founder of Break the Silence, an activist organization for survivors of sexual violence and allies to engage in dismantling rape culture in Minnesota.

### W31. Room 102C, Capacity 280

## Real World Uses of Machine Learning in Architectural Design

1.5 LUs HSW Experience Level: Entry

This session boils down machine learning (ML) concepts and their relevance to the construction industry in an easy-to-understand way. Precedents will be used to describe the application and impact of ML on iterative design processes. The presenters will discuss types of design and input data, including post-occupancy evaluations and building performance, that can be used to generate feedback loops to help architects and owners make data-driven and evidence-based decisions during the design process.

### Learning Objectives

1. Summarize three ways machine learning can influence architectural design and construction practices.
2. Identify at least three building performance analysis techniques that can impact design decisions to improve the safety and welfare of building users.
3. Explore and compare at least three commercially available artificial intelligence software systems used in design and construction.
4. Classify at least three building information modeling and data analysis strategies available to architects.



**Nate Miller** is the founder of PROVING GROUND, a digital design agency that provides strategy and solutions for people, operations, and assets in the AEC industry. Nate has worked with some of the most reputable organizations in the building industry to create strategies and software that connect builders

with data for performance. His work has impacted a wide range of built environments including stadiums, skyscrapers, hospitals, and museums.



**Stephen Sanda, AIA**, is a digital transformation specialist at PROVING GROUND. Steve seeks to understand components and workflows of design and the technology of firms in terms of tools, process, and talent. As a culture driver, his holistic approach includes wellness, communication, and connecting talent to role.

Steve's focus is to use technology in creative and ethical ways to influence the building industry.

### W32. Room 213B, Capacity 60

## Planning Commission Confidential: What to Know When Submitting Land Use Applications

1.5 LUs Experience Level: Intermediate

The presenters of this program, including Commission members and staff, will recount the do's and don'ts of going through the Land Use Application process. Attendees will learn the elements that comprise a successful application, navigating the steps that a project application goes through, as well as the appropriate way to present and explain your application as it goes through the approval process.

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2:30 p.m. – 4:00 p.m.

## W32. (continued)

### Learning Objectives

1. Examine the land use application process for the City of Minneapolis.
2. Identify the materials required and preferred for submitting a land use application.
3. Advocate for the project while presenting it to the Planning Commission.
4. Explain the legal scope and restrictions that Commissioners have in decision-making on the Commission.



**Kimberly Holien** is a planning manager with the City of Minneapolis in the Department of Community Planning and Economic Development (CPED). Kimberly has been with the City for 11 years, working with developers, architects, homeowners, and business owners on a wide variety of projects in addition to preparing zoning code text amendments. She has a Master of Urban Studies degree from Minnesota State University Mankato and a B.A. in Political Science from Gustavus Adolphus College.



**Ryan Kronzer, AIA, LEED AP**, works for the Metropolitan Council to help lead the Southwest Light Rail project as assistant director of design and engineering. In this position, he brings together the experiences he has had throughout his career, both as a professional and as a volunteer. Ryan has been

on the Minneapolis City Planning Commission for seven years, where he tries to make each proposal just a little better. In 2013 Ryan was a recipient of the AIA Minnesota Young Architects Award.

**Erik Nilsson** has been with the Minneapolis City Attorney's Office since 2001 and is currently the deputy city attorney for the Civil Division. He is a 1996 graduate of the University of Virginia and a 2000 graduate of the UMN Law School.



**Alissa D. Luepke Pier, AIA**, is an award-winning architect who is the vice president and senior member of the Minneapolis City Planning Commission. She is the principal architect of her own small architecture firm based in Minneapolis and lives on the city's northside, where she is a dedicated and vocal advocate for equity both in the architecture realm and beyond.

## W33. Room 211B, Capacity 480

### TMBR – Pushing the Boundaries of Mass Timber Construction in Minnesota and Beyond

1.5 LUs HSW Experience Level: Intermediate

This session will explore the next step in U.S. mass timber design by focusing on TMBR, a multi-use project in Minneapolis' historic North Loop neighborhood that is, at 10 stories, poised to become the tallest mass timber building in the United States. This presentation will speak to how this relatively new construction material of mass timber, clad in terra cotta, was

employed to yield a modern structure that speaks to the historic district's century-old sawn timber and brick. While mass timber offers exciting potential as a quality-controlled renewable resource, it is not without its architectural, acoustic, structural, and enclosure-related challenges. This multidisciplinary panel will delve into how the design team has navigated these challenges.

### Learning Objectives

1. Explain the critical differences in designing the building skin of a mass timber building as compared to more conventional construction types and examine how design addresses fire safety.
2. Examine different types of mass timber structural systems, their design, details, and structural integrity including resistance to seismic activity.
3. Examine acoustical challenges and various solutions for both interior and exterior sources, contributing to an improved environment for occupants.
4. Explain the environmental attributes of mass timber being sustainable, renewable, durable, and using the least amount of energy to build, and contributing to lower greenhouse emissions.



**Will Babbington, AIA, PE, LEED AP BD+C**, is the current national vice chair for the Building Enclosure Council and AIA's representative on the ASHRAE 90.1 Envelope Subcommittee. As both an architect and an engineer, Will has designed and realized award-winning structural and skin projects that achieve the merger of high performance, high design, and constructability.



**Colin Oglesbay, Assoc. AIA**, is the managing principal of D/O, an interdisciplinary design studio with a commitment to design excellence through the integration of buildings and landscapes. He teaches at UMN and guest lectures at Dunwoody College. With over 20 years of experience in the field of landscape and architecture,

he has led projects ranging in scale from integrated campus planning to off-the-grid outhouses that purify local water.

## W34. Room 208C, Capacity 209

### Cultural Destination Areas: The Future of St. Paul

1.5 LUs Experience Level: Intermediate

In this session, Dr. Bruce Corrie will share his research on cultural destination areas, defined as a geographic area with cultural assets that infuse life and business, work and play. Dr. Corrie will also discuss City of St. Paul initiatives that are part of St. Paul's comprehensive plan, and will share his decades-long economic research on the positive impact of immigrant and minority communities and how their cultural assets are reflected in recent projects in St. Paul.

### Learning Objectives

1. Examine how the cultural destination area treats diversity as an economic opportunity rather than a deficit, and how that is embodied in neighborhoods from Rondo to Little Mekong in St. Paul.

2. Examine City of St. Paul initiatives in place to build on the potential of cultural destination areas as the City creates its next Comprehensive Plan.
3. Explain the potential of the Neighborhood Nodes concept, which creates an important framework for livability.
4. Discover other key elements of Mayor Carter's agenda and the Comprehensive Plan process that will impact the architecture profession and the St. Paul built environment.



**Dr. Bruce Corrie** recently completed almost two years as director of planning and economic development for the City of St. Paul. Dr. Corrie currently serves as Associate Vice President for University Relations and International Programs and as Professor of Economics at Concordia University-St. Paul, where his research

and community efforts focus on the economic contributions of immigrants and minorities. He received his Ph.D. in Economics from the University of Notre Dame. His interest in architecture is rooted in his work with his father who was a well-known architect in various parts of India.

**3:00 p.m. – 5:00 p.m.**

**W35. Capacity 30, Tour**

## Minnehaha Academy: A Historic School Reimagined on the Riverside

Sponsored by Loucks

1.0 LUs Experience Level: Entry

Cunningham Group, in partnership with Mortenson Construction, designed a new 70,000-square-foot addition and 65,400-square-foot remodel of Minnehaha Academy's Upper School after a gas explosion



destroyed the historic heart of the campus on August 2, 2017. Building on prior master planning work done for the school, Cunningham Group pushed the limits of the typical design process, delivering a progressive take on the school's original, 105-year-old buildings in just under 20 months. Connecting the two remaining buildings, this new heart of the school features an interior landscaped courtyard, student commons, a prayer chapel, library, fireside lounge, a variety of learning spaces, and deep, visible connections to the school's rich history.

### Learning Objectives

1. Examine ways to navigate difficult and highly sensitive project challenges, including complicated budget issues, heightened emotions, a sensitive site, and client interest to reinvent themselves.
2. Apply an integrated project delivery model to effectively navigate seemingly impossible schedules using a "design-led design-build" process.
3. Explain the significance of making both personal and pragmatic connections to surmount community roadblocks and gain city approvals.

4. Examine the implementation of a collaborative approach to project detailing and system integration, leveraging the expertise of both designers and craftspeople.

**Mike Berg, AIA**, is a key member of Cunningham Group Architecture's technical design team. Mike's commitment to balancing the needs and design goals of projects has resulted in meaningful, expressive environments responsive to schedule and budget. Mike served as the project architect for Minnehaha Academy's Upper Campus rebuild, where he was responsible for the oversight and delivery of Construction Documents and tasked with the technical challenge of blending the campus' older structures with the new addition.

**Chad Clow, AIA, NCARB**, is a principal at Cunningham Group Architecture with over 24 years of experience. Chad excels at balancing project program and function while supporting a client's design and community goals. His solid listening skills, consistent communication, and dedication to teaming, in combination with his design expertise, has led to strong client connections and many successful projects. As the design principal on the Minnehaha Upper Campus rebuild, Chad worked collaboratively with students, staff and community to create a building design that enhances a sense of community.

**Tony Glebus, Assoc. AIA**, is a talented technical designer and a crucial member of Cunningham Group Architecture's education team. He gets involved early in the design process working with the team throughout the lifecycle of a project, providing focus, problem solving, design refinement, and detail development. Tony served as the on-site design coordinator for the Minnehaha Academy rebuild, where he spent over 13.5 months working alongside Mortenson Construction to deliver one of the most cohesive and integrated design-build projects the two firms have worked on.

**Derek Hansen**, project executive, Mortenson Construction, has completed many complex, large-scale projects in the Twin Cities and recently lead the design-build team at Minnehaha Academy. Derek served as the client key contact and lead the integrated design-build delivery of this project. His diligent focus on daily execution of the project and enthusiastic collaboration with team members and stakeholders drives value. Derek is personally invested in his projects and is committed to delivering a successful outcome that ensures long-term success for his customers.

**\*The bus will leave the Convention Center at 3:00 p.m. from the Main Entrance by the Ballroom.**

**3:45 p.m. – 6:00 p.m.**

**W36. FREE!**

## Exhibit Hall

Reception Sponsored by the Minnesota Concrete & Masonry Contractors Association

Enjoy this hors d'oeuvres and cash bar reception sponsored by Minnesota Concrete & Masonry Contractors Association and their members exhibiting in aisle 4's Masonry Street. We have many new exhibitors this year, along with many regular vendors you should know. Stop by, introduce yourself, and check out their products.

6:00 p.m. – 7:30 p.m.

**W37. Room 103C, Capacity 600**

## Keynote Address: In Our Times

Sponsored by ConstructConnect

1.5 LUs Experience Level: All

Keynote speaker Jing Liu brings an intellectually open, globally aware, and locally sensitive perspective to architecture. She believes strongly that design should and can be accessible to all and that architecture offers us an open platform to nurture new forms of interaction. In her keynote address she will examine how all forms of architecture offer reflection on questions raised by the time we are in.

### Learning Objectives

1. Examine the premise of the architectural practice as a social and cultural engine for change.
2. Identify challenges and rewards of a small global practice.
3. Examine how this firm identified opportunities for material and representational exploration as a core mission of the firm.
4. Examine your own practice of architecture and consider ways in which “the time we are in” impacts your own personal mission for practicing.



**Jing Liu, AIA**, founder of SO-IL, Brooklyn, New York, has been practicing for more than 15 years, working on a wide range of projects both in the US and abroad. Through building practice and interdisciplinary research projects, Jing has led SO-IL in the engagement with the socio-political issues of contemporary cities in

projects like the Artists Loft North Omaha and the Martin Luther King, Jr. Library in Cleveland. Her projects range from artistic collaborations with contemporary choreographers and visual artists to master plan and major public-realm design in cities like Melbourne and Indianapolis. Her intellectual curiosity and artistic imagination allow her to bring a more nuanced cultural perspective to the table. Her keen skills in combining digital technology with traditional craft and firm belief in design's ability to re-engage people with the physical world around them allow the buildings she designs to become places of exchange that welcome interpretation and transformation. To that end, Jing sees community engagement and collaboration across disciplines central to her role as the design lead.

7:30 a.m. – 8:30 a.m.

**TH38. Lounge A, Capacity 30**

## Fellows (FAIA) Breakfast

AIA Minnesota Fellows are invited to the annual College of Fellows Conference gathering. In addition to recognizing our new 2019 Fellows, you will have the opportunity to reconnect with other Minnesota Fellows. There will be an overview of national activities and other initiatives.

8:00 a.m. – 10:00 a.m.

**TH39. Room 208B, Capacity 110, Workshop**

## Escaping from K(NO)W

2.0 LUs Experience Level: Entry

As design professionals, it often seems that most of what we want to do lies outside our reach due to a shortage of resources, a dearth of time, or a never-ending lack of money. Even when we try to brainstorm new ideas, we're hampered by what we already KNOW to be true. What we KNOW quickly becomes “what we NO.” This presentation will explore some powerful key concepts to help reframe the conversation around what's possible in your career, your business, and your life. We'll look at ways to break out of the box you've put yourself in and expand your ability to generate new opportunities that will create an abundant mindset and new levels of personal and professional fulfillment.

### Learning Objectives

1. Identify personal or professional areas of life where possibility has been limited by circumstances.
2. Examine the power of context, both as an obstacle to problem-solving and as a tool for creative success.
3. Attune speaking, listening, and action to distinguish how several key contexts operate on a day-to-day basis.
4. Examine powerful key concepts and consider how to apply these to one's personal or professional life to generate new opportunities, increase productivity and enable greater creativity.



**David Lewis Bradley, AIA, PCC**, founded Blueprint For Living Coaching with over 25 years of experience in architecture, design, and business. David is a 2013 graduate of Accomplishment Coaching Coaches Training Program, a comprehensive, intensive, year-long program that emphasizes an ontological approach to coaching

and extensive hands-on leadership experience. Prior to becoming a coach, David built a successful career as an architect, first as principal of Bradley Architects and later as the managing director of North American operations for Officium, LLC, a German-based design and engineering firm specializing in tensile structures.



**TH40. Room 103C, Capacity 600****Amendments to Minnesota Rule 1305 and the 2018 IBC**

Sponsored by the AIA Minnesota Building Codes Knowledge Community

2.0 LUs | HSW | Experience Level: Intermediate

This presentation will provide an overview highlighting several new state amendments to the 2018 IBC model code and parts repealed from the existing state building code as the new state building code is proposed for adoption at the end of March 2020.

**Learning Objectives**

1. Differentiate between the assisted living construction requirements for occupancy group I-1 Condition 1 and occupancy group I-1 Condition 2. Explain how changes in the state building code will affect existing assisted living facilities, all with the intention to provide safety and accessibility for those who live there as well as for those providing care.
2. Properly size emergency overflow scuppers from roofs and determine the impact of scupper design on structural loading to prevent collapse and ensure user safety.
3. Participants will learn the fundamental components and performance criteria of storm shelters and where storm shelters are required in the state in order to best protect and keep all safe in emergency weather situations.
4. Design code-compliant access pathways to and through rooftop mounted solar photovoltaic arrays.



**Greg Metz** has been with the Minnesota Department of Labor and Industry Construction Codes and Licensing Division since February 2015 and now supervises the building plan review unit. He has 32 years of experience as an architect and has been licensed in Minnesota since 1998. Greg led the Technical Advisory Group evaluating modifications to the 2018 IBC and proposing amendments for the next Minnesota Building Code. He also led the Technical Advisory Group for the Minnesota Fire Code and co-led the Technical Advisory Group for the Minnesota Conservation Code for Existing Buildings.

**8:30 a.m. – 11:45 a.m.**

**TH41. Room 213B, Capacity 60, XL Workshop****The Ethics of Exploring Culture and Identity**

Sponsored by the AIA Minnesota Equity, Diversity, and Inclusion Committee

3.0 LUs | Ethics | Experience Level: Intermediate

AIA has a Code of Ethics and NCARB has the Model Rules of Conduct to which all licensed architects must adhere. Many of the canons and rules directly address issues of protecting the health, safety, and welfare of the public, but do they have a connection to our need for intercultural competence? This session will help you make the connections. Participants will get shared meaning on often misused words like diversity, inclusion, equity, equality, and culture. In the context of ethics requirements, participants will dig

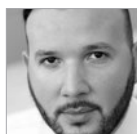
into an exploration of their own cultural identities and influences and the culture of their organizations, as well as how to apply this understanding in order to advance diversity, equity, and inclusion goals.

**Learning Objectives**

1. Build individual and organizational cultural self-awareness.
2. Identify the connections between AIA's Code of Conduct and intercultural competence.
3. Attain shared meaning on key terms related to diversity, equity, inclusion, and ethics.
4. Explore the impacts of identity on work and relationships and an ethical practice.



**Sara Schonwald**, Listen to Lead Consulting, is a dynamic facilitator, trainer, listener, and coach. Her practice of leadership and consulting centers the belief that we're all connected to each other, and that it is our collective opportunity and responsibility to work together for justice and peace.



**Alfonso T. Wenker** is cofounder and principal of Team Dynamics. Alfonso is a dynamic, engaging, practical, and highly sought-after trainer and facilitator. His work focuses on strategy development, diversity/equity/inclusion, team building, leadership development, and self-awareness.

**TH42. Room 210B, Capacity 46, XL Program****ARE 5.0 Review: Programming & Analysis**

Sponsored by the AIA Minnesota Architects Licensing Advisory Committee

Experience Level: Entry

This program is a review course for those preparing to take the Architect Registration Examination (ARE). The program is designed to introduce and prepare ARE candidates for the ARE 5.0 division titled "Programming & Analysis" (P&A). The course will be divided into three sections: ARE basics, introduction to P&A, and P&A content. Content will include Environmental and Contextual Conditions, Codes and Regulations, Site Analysis and Programming, and Building Analysis and Programming.



**Melissa Emerson, AIA**, project architect, HDR, Inc. specializes in healthcare projects and assists in creating environments that make innovation in the medical industry possible. Prior to becoming licensed, she worked on the electrical and lighting design side of the building industry and learned the importance of good coordination with engineering. Melissa became licensed in 2018 and completed the ARE 5.0 exams.



**DJ Heinle, AIA, NCARB**, vice president of TKDA's Architecture Division, leads a team of over 30 staff who provide architecture, interior, and landscape design services to clients throughout the U.S. Supporting DJ's collaborative style is a well-rounded project portfolio which features large and small projects in K-12 and higher education; manufacturing and corporate workspaces; and administrative, corrections, and justice. He has been involved in AIA Minnesota's efforts to strengthen licensure for over 15 years and serves as the state licensing advisor.

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8:30 a.m. – 11:45 a.m.

TH42. (continued)



**Margaret (Meg) Parsons, AIA, LEED AP BD+C**, principal, Cuningham Group Architecture, has specialized in educational projects, with a focus on innovative learning environments, since 1989. Meg is chair of the Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design (AELSLAGID) and vice chair of Region 4 of the National Council of Architectural Registration Boards. She is a member and past chair of the AIA Minnesota Architects Licensing Advisory Committee.

8:30 a.m. – 10:00 a.m.

TH43. Room 208C, Capacity 209

Delivering Architecture in Rural Jamaica

Sponsored by Dunwoody College of Technology

1.5 LUs Experience Level: Entry

This program will explore connections between Jamaica, Minnesota, and architectural education. The presentation will focus on collaborations between the Organization for the Strategic Development in Jamaica (OSDJ), Jamaican Paralympic athlete Mark Braun, Architecture Program at Dunwoody College of Technology. The panel will present current projects with varying cultural context and architectural needs, both in Minnesota and Jamaica, while providing a global perspective on human health and the welfare of humanity. The objective of the discussion will be to explore the expanding role of the profession.

Learning Objectives

1. Explore varying cultural contexts in Jamaica and Minnesota, and the potential impact of architectural service and education.
2. Explore opportunities for architects to be involved in improving the lives of international communities.
3. Achieve a global perspective of human health and the welfare of humanity and how architecture can make a difference.
4. Identify the skills architects have to expand the role of the profession toward healthier environments.



**John Dwyer, AIA**, is chair of the Architecture Drafting and Design, Bachelor of Architecture, and Interior Design degree programs at Dunwoody College of Technology. He is also the founding principal of Dwyer Oglesbay Architects. In both practice and academia, John seeks to expand the influence of the architecture profession toward the sustainability of humanity. Pedagogically, he employs the principles of public interest design and global practice toward service-based learning.



**Kyle Huberty, Assoc. AIA**, is a recent graduate of the new B.Arch degree program at Dunwoody College and a designer at RoehrSchmitt Architects, LLC. During his thesis year, Kyle and his classmate, Ryan Kelly, worked directly with Wayland Richards and OSDJ in the design of the Davyton Crossroads Project. His objective is to serve people through creativity and design, while combining his love of traditional craft, modern tools, and technology.



**Ryan Kelly** is a recent graduate of the new B.Arch degree program at Dunwoody College. During his thesis year, Ryan and his classmate, Kyle Huberty, worked directly with Wayland Richards and OSDJ in the design of the Davyton Crossroads Project.



**Mark Braun** is a Jamaican-born, Minnesota-raised paralympic athlete representing Team USA in the 100m dash. He was the first athlete to compete in wheelchair track and field in Minnesota and represented the Western All-Star Team as a participant in the 2015 NBA/NWBA All-Star Game in 2015. Most recently, Mark competed in the Parapan American Games in Lima Peru. He is also the founder of Empowered Athletes, a nonprofit committed to providing fitness and health for all.

TH44. Room 102C, Capacity 280

A Cross Section of New Technology for Architecture

1.5 LUs Experience Level: Entry

This program will be a panel discussion comprised of four different firms sharing pros and cons and answering questions about the use of new, cutting-edge technology. This might include anything that facilitates or enhances practice, such as VR/AR, AI, generative design, real-time building code analysis, collaborating in the cloud, and much more.

Learning Objectives

1. Examine the cutting-edge tools being used within the profession.
2. Identify new technology available to the practice of architecture.
3. Explain the benefits of implementing this new technology in architecture.
4. Examine the challenges surrounding this new technology.



**Joshua Franco, Assoc. AIA**, Peterssen/Keller Architecture (P/K), brings his passion for Building Information Modeling (BIM) to a wide variety of residential and boutique commercial projects. He's proficient in Revit, SketchUp, AutoCAD, 3D rendering, virtual reality, and other design software. In addition to working at P/K, Josh is pursuing his B.Arch degree at Dunwoody College of Technology. He received his Architectural Technology degree from Minneapolis College.



**Ted Martin, AIA**, Peterssen/Keller Architecture, uses Building Information Modeling (BIM) to push the boundaries of regional architecture in Minnesota and across the country, informed by his appreciation for America's varied topography and unique climate. Ted's projects have been featured on the AIA Minnesota Homes by Architects Tour and honored with numerous awards.



**Rachel Riopel, AIA, NCARB, LEED AP BD+C**, digital design managing principal, HDR Inc., has over 14 years of experience in multidisciplinary architectural practice. Her mission is to empower HDR's architecture practice with effective applications of technology. Her primary focus is to maximize efficiency and improve quality of project delivery by driving measurable results.



**Dustin Schipper**, research specialist, Cuningham Group Architecture, joined the firm in January of 2016 to kick off his research for the UMN M.S. in Architecture – Research Practices, which integrates a structured path to architectural licensure with research in practice.

Dustin conducts and manages R+D projects, with the goal of advancing design practice through technology, innovative methods, and storytelling with data.



**Daniel Stine, AIA, CSI, CDT**, design technology manager, LHB, Inc., is an author, blogger, educator, design technology manager, and Wisconsin-registered architect with over 20 years of experience. Dan teaches BIM to graduate architecture students at North Dakota State University (NDSU) and lectures annually to interior

design students at UMN. He has presented internationally on topics related to BIM, energy modeling, lighting analysis, and more.

**10:15 a.m. – 11:45 a.m.**

#### **TH45. Room 208C, Capacity 209**

### Navigating Through the Leadership Pipeline

Sponsored by the AIA Minnesota Council of Firms Knowledge Community

1.5 LUs Experience Level: Advanced

Are you where you want to be along your leadership path as an architect? Are you a firm leader able to promote your staff's leadership transition? Based on the book *The Leadership Pipeline* by Ram Charan, Stephen Drotter, and Jim Noel, "Leaders are not created at business schools and leadership programs, but rather through the work experiences and developments they go through." Cuningham Group Architecture uses *The Leadership Pipeline* as their leadership development tool, and their president/CEO Tim Dufault, FAIA, will give us an overview of the book's key messages and then lead our panelists through a discussion that will highlight transitional points in their careers and alignment of purpose along the way.

#### Learning Objectives

1. Discuss tools for architecture firm leaders to build a healthy, functional, cohesive leadership culture.
2. Explore tools for leaders to assess personal leadership potential within architectural firms.
3. Explore how to assess the leadership potential within teams, to fit the right people into the right seats in your architecture/design firm.
4. Examine multiple paths to professional success within firms, and how skills, values, and experience increase potential to move ahead on the leadership path.



**Michelle Mongeon Allen, AIA**, CEO of JLG Architects, helped guide the firm's growth from a closely held partnership to a 100 percent employee-owned organization over the course of her tenure. Though she dedicates significant time to JLG's business operations, strategy, and planning efforts, Michelle is actively engaged in firm culture and also has several AIA award-winning design efforts to her credit.



**Tim Dufault, FAIA**, is president and CEO of Cuningham Group Architecture, an international design firm with more than 340 employees in eight offices. In this role he leads the firm toward its strategic goals while promoting a collaborative approach to the business and practice of architecture, interior design, and planning that seeks to "Uplift the Human Experience."



**Michael Fischer, AIA**, is the Minneapolis office leader and Integrative Design Team leader for LHB, Inc., a 250-person architecture, engineering, and planning firm. He is the immediate past co-chair for the AIA Council of Firms and has served as a city council member in two different cities, including his current role on the Edina City Council.



**Daniel Kodet, AIA**, is principal and CFO of Kodet Architectural Group, Ltd., a Minneapolis-based practice in its second generation of firm leadership. Within the office Daniel focuses on religious, educational, and restoration projects with a strong interest in visual representation and public engagement. Daniel is co-chair elect of the AIA Minnesota Council of Firms Knowledge Community.



**Scott R. Neal, AIA, LEED AP**, is principal and a design director at Wendel. Scott's primary responsibilities include fulfilling the project manager and lead project designer role in which he is intimately involved in project development from kickoff meeting through construction. Scott has a history of empowering high-performing teams to become well-rounded architectural professionals. He is a co-chair of the AIA Minnesota Council of Firms Knowledge Community.



**Mary Shaffer, AIA**, serves as the department manager for the Architecture North team at Mead & Hunt and brings a wealth of experience in architectural leadership and project management. She has a passion for mentoring students and is engaged in multiple volunteer endeavors, including serving on the National Architectural Accreditation Board Visiting Team Roster, co-chairing the AIA Minnesota Council of Firms Knowledge Community, and serving in an advisory role for the annual Women in Design+Construction Conference.

10:15 a.m. – 11:45 a.m.

**TH46. Room 211B, Capacity 480**

## Trust, but Verify! QC for Your Air Barrier

Sponsored by the Air Barrier Association of America

1.5 LUs

HSW

Experience Level: Intermediate

In the past, building systems were simpler, with fewer layers. That is no longer the case. One way to help ensure a successful project is to incorporate quality assurance and quality control. Quality assurance can be achieved through incorporating a quality management system for the air barrier sub-trade. Quality control can be implemented before the first square foot of air barrier is installed and then carried through the installation process. This program will review key test methods used during the construction process and demonstrate the type of testing equipment used for air leakage, water penetration, adhesion, and material-specific test methods.

### Learning Objectives

1. Examine key test methods used during the construction process for various air barrier materials, including adhesion, density, and thickness testing procedures.
2. Properly specify and use a variety of performance mockups to confirm design intent, sequencing, material compatibility, and standards of installation acceptance.
3. Review the top five field-related installation issues found during site quality control audits and examine successful ways to address these issues.
4. Ensure the proper installation of the air barrier application during construction in order to avoid air leakage and water penetration.



**Ryan Dalglish** is chief operating officer for the Air Barrier Association of America. He has been involved in the building enclosure and building performance areas of construction in both the commercial and residential sectors for over 20 years. He is also actively involved in research, training development and delivery, certification

management, and helping industries increase their professionalism. Ryan is a certified Net-Zero building instructor, teaches master builder courses to builders across the country, and is a frequent speaker at various technical presentations dealing with the building enclosure and building science.

**TH47. Room 102D, Capacity 280**

## Analysis, Design, and Code Compliance Guide for Inclusive and Gender-Specific Restrooms in K-12 Schools

1.5 LUs

HSW

Experience Level: Entry

The design of public restrooms has long been a contested territory for civil rights issues and policy debates of the time. Currently, segregated facilities are increasingly coming under scrutiny in the LGBTQ community. Very little data regarding the implementation and logistics of inclusive bathrooms, or non-gender specific

bathrooms, exist at the K-12 level. This presentation will provide a case study of inclusive restrooms at St. Paul Public Schools (SPPS), including design and methods to reach alternative code compliance. Discussion will also include post-occupancy research data of the topic through the lens of safety and security of this model.

### Learning Objectives

1. Identify the key design components of inclusive restroom design.
2. Review which design components contribute to students' feelings of safety and security based on research study.
3. Define the code requirements for restrooms in educational facilities and enumerate alternative code compliance methods at St. Paul Public Schools.
4. Examine the process of community and student engagement in designing inclusive restrooms at St. Paul Pubic Schools.



**Heidi Neumueller, AIA**, is a senior associate at Cuningham Group Architecture. She is passionate about design leadership and her work is focused on creating flexible and innovative worship and educational environments. Heidi's research into the design of inclusive restrooms is helping districts across the country understand the key design components that contribute to safety and security of students. Heidi is a 2018 recipient of the AIA Minnesota Young Architects Award.



**Angela Selb-Sack** has over 15 years of experience in design and construction, with emphasis on managing large-scale and complex educational construction projects and facilities master planning. Angela recently led a design process for SPPS focusing on the transformation of gender-specific toilet rooms to a new inclusive design. This process involved leading students and staff in design focus groups, working with regulatory agencies, and engaging in community outreach to help envision and develop the inclusive model now utilized at SPPS.

**TH48. Room 102C, Capacity 280**

## Solving Complex Architecture with Material Knowledge

1.5 LUs

HSW

Experience Level: Intermediate

Architects' engagement with the world of materials requires a relationship with fabricators and manufacturers to understand a body of hands-on knowledge that can become invaluable to the creative process, but may increase the complexity of a project, requiring the need to carefully assemble the right project team. By focusing on light-gauge steel assemblies, this presentation will examine the Charles Library at Temple University; Antonov Auditorium, Brendan Iribe Center at the University of Maryland—College Park, and other recently completed projects to demonstrate how material knowledge, experience, technology, and collaboration is needed to achieve these extraordinary spaces.

### Learning Objectives

1. Examine the constructability challenges due to complex conditions and explain the expertise and skillsets needed by the team to safely deliver a building designed with light-gauge steel assemblies.



2. Explain the minimum physical requirements per ASTM C955 and the minimum installation requirements per ASTM C1007 when using this type of assembly.
3. Examine the requirements needed to be compliant with the International Building Code and the key elements for fire-rated construction when using light gauge steel assemblies.
4. Explain how material choices and combinations of materials, along with the design and construction processes and technologies employed, will result in a project with safe, economical, and high quality results.



**Ryan Rademacher, AIA**, is a vice president at Radius Track Corporation. Radius Track provides framing systems for curved and complex surfaces. Ryan leverages his extensive experience in managing the parametric and computational design through digital fabrication processes to bridge the gap from complexity

to constructability for architects and contractors alike. He has built an expert team of design technologists that employs leading 3D virtual modeling technology and computational design to create new-to-the-world solutions for complex problems.

**10:15 a.m. – 12:00 p.m.**

#### **TH49.** Capacity 30, Tour

### Mission Critical: Sustainable Design and Construction Meets the Client's Mission

1.0 LUs

HSW

Experience Level: Entry



The Capitol Region Watershed District (CRWD) originated from a small group of dedicated citizens with a mission “to protect, manage, and improve the water resources of Capitol Region Watershed District

and the Mississippi River.” To better support this mission, CRWD purchased the former MacQueen Equipment building in early 2017, with the plan to create a new office space that would utilize green building principles such as stormwater management practices and energy-efficiency measures to conserve natural resources. The building was remodeled using the principles of the City of St. Paul’s Sustainable Building Policy, resulting in a structure that meets the Gold standards of the Leadership in Energy and Environmental Design (LEED) program.

#### **Learning Objectives**

1. Preservation: Examine how the reuse of this former industrial site saved material, reducing the building’s embodied carbon footprint.
2. Pre-design: Explain how the site design incorporates water collection, filtration, and infiltration systems to manage stormwater for both this site and the adjacent property.
3. Building Systems: Describe how building systems are designed to collect and store rainwater for gray water use.

4. Environmental: Examine how the building and site are used as teaching tools to educate the community on the importance of watersheds and environmental sustainability.

**Mark Doneaux**, administrator, became the first employee of CRWD in 2003. Mark implements CRWD policies and programs on behalf of the CRWD Board of Managers. He oversees all CRWD operations, including staff, and also manages the annual budget and work plan. Mark received a B.S. in Reclamation from the University of Wisconsin – Platteville.

**Ben Lewis**, project designer, MSR, graduated from Wentworth Institute of Technology (WIT) in Boston, with an M.Arch. Ben enjoys building things with his hands and has experience working with CNC machines, 3D printers, and vacuum formers. Using these fabrication methods, as well as hand drawing, he has pursued his passion for learning through making.

**Lauren Lockwood**, project engineer, JE Dunn Construction, coordinates all project services. She actively participates in developing the project’s scope, schedule, and budget during preconstruction. Lauren has seven years of experience and holds a B.S. in Construction Engineering from Iowa State University.

**\*The bus will leave the Convention Center at 10:15 a.m. from the Main Entrance by the Ballroom.**

**11:30 a.m. – 2:00 p.m.**

#### **TH50. FREE!**

### Exhibit Hall

Last chance to see new products and connect with vendors! Enjoy lunch in the Café Lounge. Think holiday gifts as you shop in the Pop-Up Bookstore and make those final bids on the selection of original art in the Urban Sketchers Silent Auction. Auction proceeds benefit the Minnesota Architectural Foundation (MAF) and Urban Sketchers.

**2:00 p.m. – 3:30 p.m.**

#### **TH51. Room 213B, Capacity 60, Workshop**

### Navigating Your Firm’s Culture

Sponsored by the AIA Minnesota Emerging Professionals Committee

1.5 LUs

Experience Level: Entry

Designing office culture is akin to designing the built environment. Responsiveness, flexibility, inclusiveness, and accommodation of ever-changing collaborators are intrinsic to a strong firm culture. This interactive workshop will take a deep dive into the topic of firm culture. Learn to listen to your team’s values, assess your own beliefs, and set goals for strengthening your firm’s practice.

CONTINUED ON NEXT PAGE >

2:00 p.m. – 3:30 p.m.

## TH51. (continued)

### Learning Objectives

1. Develop tools to define and analyze the characteristics of firm culture.
2. Discuss how culture contributes to the success of a project team in breakout groups facilitated by EP volunteers.
3. Identify healthy trends in firm culture and diagnose your firm's culture prognosis.
4. Acquire key strategies for nurturing a healthier firm culture.



**Nickisha Benjamin, AIA**, an architect at Wendel, spent her college years steeped in the design culture at Pratt Institute in Brooklyn, New York. Eventually returning to Minnesota after a brief sojourn in Pittsburgh, Nickisha began her career on the coattails of the recession. Now a parent of two energetic young children and a recently licensed architect, Nicki is keenly interested in the alignment of personal core values within a firm's culture.



**Molly Ellis, AIA**, senior project coordinator, Metro Transit Minneapolis, has a B.Arch and a M.S. degree in sustainable design in architecture. Recently, she became a registered architect with experience in sustainability, transportation, and education. Her current responsibilities with Metro Transit are primarily working with design and construction teams from concept through completion.



**Katie Kangas, AIA**, RSP Architects, is the 2019 Young Architects Regional Director of AIA's North Central States Region. As the 2017–18 co-chair of the AIA Minnesota Emerging Professionals Committee, Katie championed the committee's research into firm culture, crafting the Navigating Firm Culture Workshop first presented at the 2018 AIA South Dakota Convention and then at the A'19 Conference on Architecture in Las Vegas.

## TH52. Room 211B, Capacity 480

### SB 2030: Using the Energy Standard Tool

1.5 LUs | HSW | GBCI | Experience Level: Intermediate

This session will walk through the SB 2030 Energy Standard tool and its "As-Designed" feature, which allows users to calculate the expected Energy Use Intensity (EUI) and carbon emissions for a given design. The SB 2030 Standard was established by Minnesota legislation and currently requires a 70 percent reduction in EUI and carbon emissions for new buildings, increasing to an 80 percent reduction on January 1, 2020.

### Learning Objectives

1. Use the SB 2030 tool to set an energy standard for a building in order to reduce the energy and carbon in Minnesota commercial, institutional, and industrial buildings.
2. Calculate expected Energy Use Intensity (EUI) and carbon emissions for a building and adjust the design, as possible, to meet current legislative standards.

3. Describe when the As-Designed tool is appropriate for modeling a project, calculating the expected Energy Use Intensity (EUI) and carbon emissions for a given design.
4. Explain the difference between Space Types and Space Asset Types and the importance this has on design decision-making.



**Chris Baker, AIA**, Willdan, has worked in a range of roles to further energy efficiency. His energy leadership is evidenced through developing energy efficiency software tools and services that have benchmarked the energy consumption of thousands of existing buildings and provide comparative analysis for more than 500 new or major renovation commercial projects each year. Chris is a long-serving member of the Minnesota B3 management team and leads development of new tools including the SB 2030 Energy Standard tool "As-Designed" feature.

## TH53. Room 208C, Capacity 209

### Expanding Architectural Agency: Research and Practice at Rapson

Sponsored by the University of Minnesota School of Architecture

1.5 LUs | Experience Level: Intermediate

This session, presented in PechaKucha style, features faculty from the UMN School of Architecture who share an interest in creating transformative agency in architecture while testing the possibilities of thinking across scales. Collectively, their work addresses critical perceptions of architecture in addition to advocating for new roles for the practicing architect. The group's interests and research engage issues including surveillance, memory, politics, social justice, equity, human agency, and racial constructs in the context of built constructions. In different ways, their work seeks to enable social engagement and cognitive diversity while foregrounding intersections and exchanges between professional and informal activities.

### Learning Objectives

1. Identify examples of systems thinking concerning large-scale impacts on and of architecture.
2. Assess new and transformative roles for the practicing architect.
3. Assess architecture's relationships to the human condition in the context of big data, large-scale infrastructural systems, and the interactions between informal and designed works in the built environment.
4. Analyze racial constructs and learn about means of increasing cognitive diversity in the context of built environments.



**Gabriel Cuellar, AIA**, and **Athar Mufreh** direct an architecture practice called Cadaster. Their efforts, which include teaching, design projects, research investigations, and writing, are focused on the territorial dimension

of architecture. While architects and urban planners traditionally deal with unitary-built artifacts and policy plans, spatial and material organizations and dynamics that have broader extents – and arguably more profound impacts – tend to fall off the professional and disciplinary radar. Their work tackles territory as an architectural project as such and aims to articulate new valorizations of the architectural imaginary and more transformative roles for the practicing architect.

PROGRAM DESCRIPTIONS CONTINUED ON PAGE 37 >





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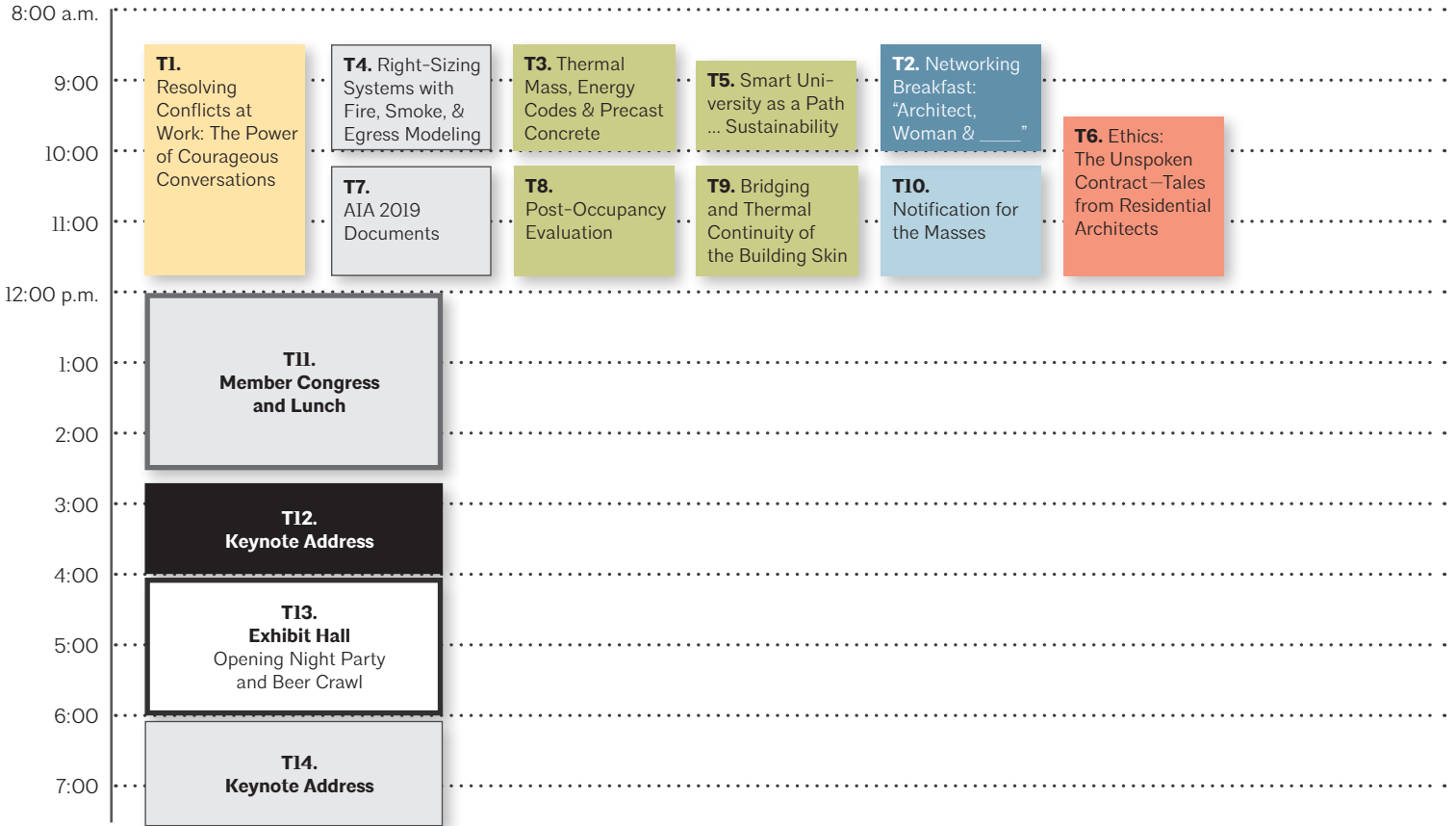
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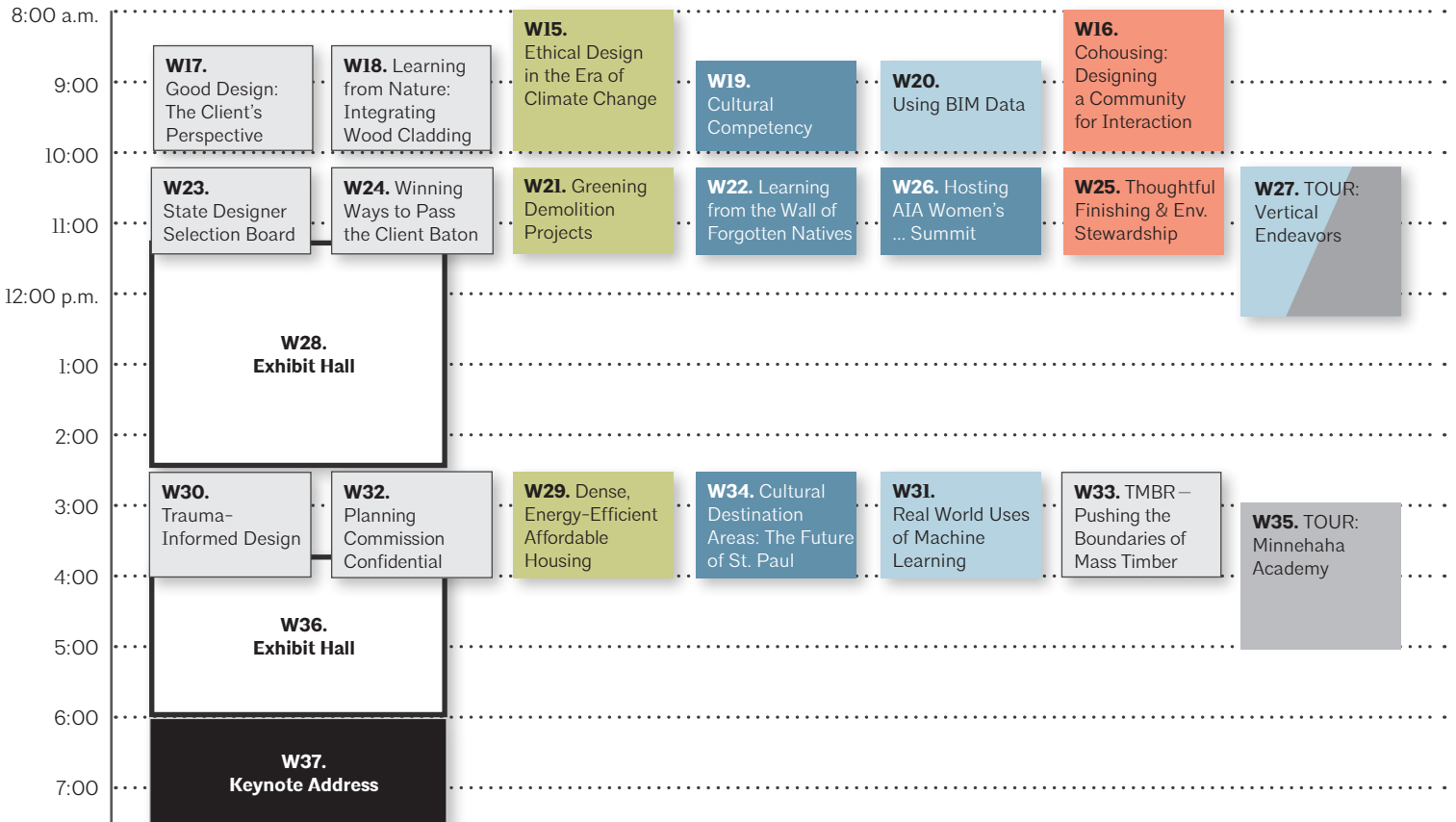
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## SCHEDULE & PROGRAM TRACKS

### TUESDAY, NOVEMBER 12

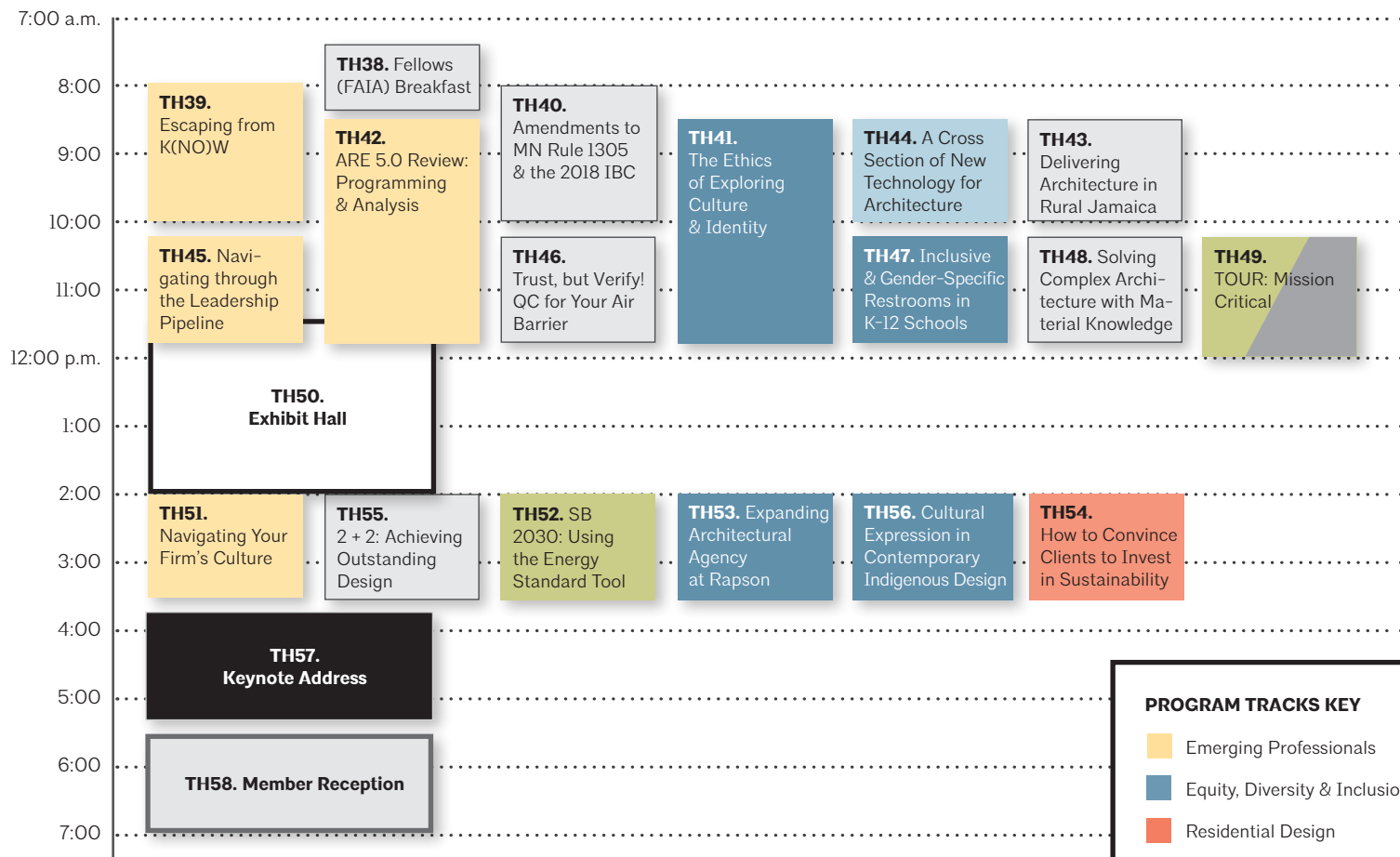


### WEDNESDAY, NOVEMBER 13





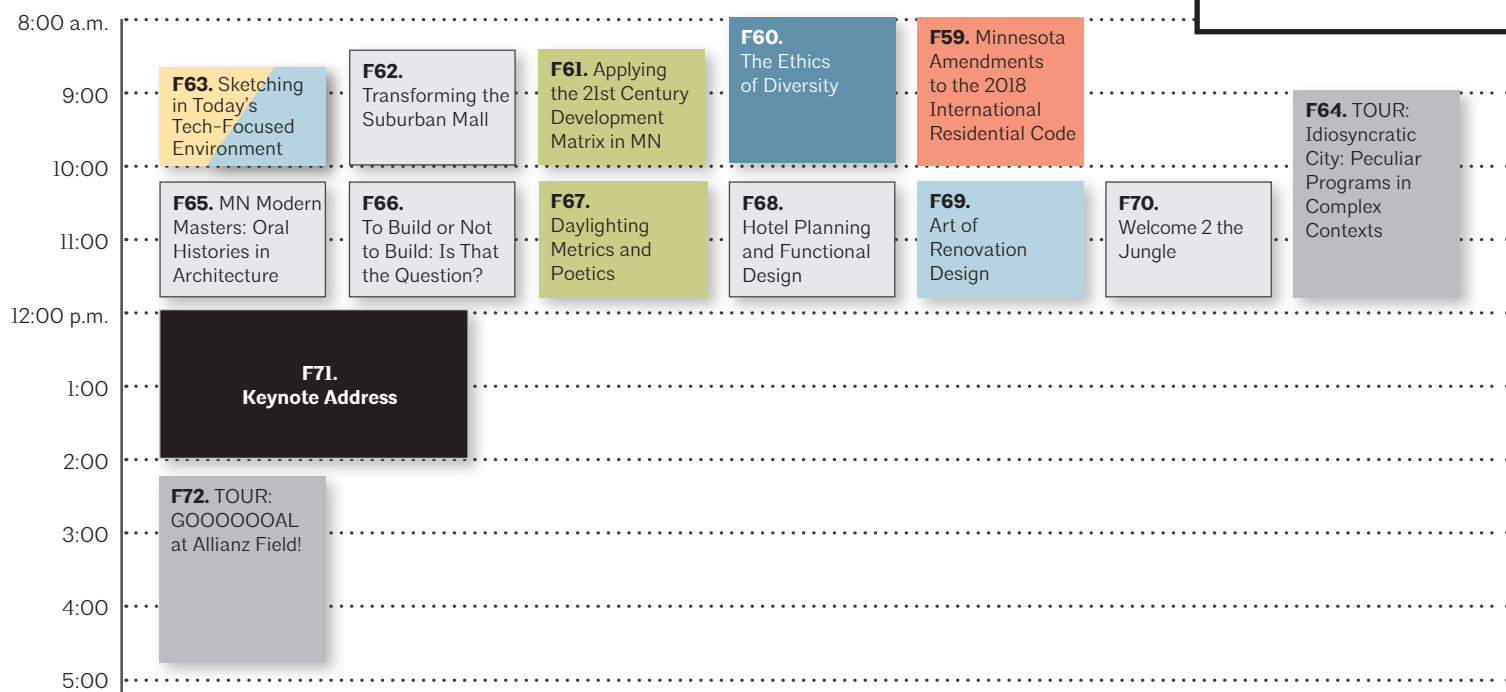
## THURSDAY, NOVEMBER 14



### PROGRAM TRACKS KEY

- Emerging Professionals
- Equity, Diversity & Inclusion
- Residential Design
- Sustainable Design
- Technology
- Tours

## FRIDAY, NOVEMBER 15



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2:00 p.m. – 3:30 p.m.

**TH53. (continued)**

**Jacob Mans, AIA**, is an architect and educator focused on understanding the feedback loops between building-scaled technical systems and large-scaled social and ecological systems. Architects and architectural researchers often describe these systems and study them independently from one another. The reality is that

architecture collects, channels, and distributes energy and materials across these immense, powerful, and interconnected socio-technical systems. Jacob believes architecture should ask questions and engage in critical inquiries that affect immense change rather than prioritizing research on the incremental improvement of preexisting architectural questions.



**Vahan Misakyan's** research and pedagogy explore modalities in which architectural thought can manifest change, and be changed in real circumstances of human life beyond the built medium. He has carried out design projects in Yerevan, as well as critical-spatial projects on surveillance, collective memory, politics, conflict, and

human agency. Vahan is the founding director of the Surveillant City Lab, working at the cross-section of machine learning, critical representation, and urbanization. He is also the founder and the curator of x-commons.com, a platform about underlying presuppositions informing the project of design at the time of surveillant environmental mandate.



**Jennifer Newsom, AIA's** research lies in the space between real, tangible bodies made of flesh, steel, glass, etc., and the perception of these bodies through vision. As an architect, she examines racial constructs in the context of built constructions, where these spatial metaphors act as mechanisms for engagement. Through

Dream the Combine, which was founded with Tom Carruthers, AIA, in 2013, they produce numerous site-specific installations in the US and Canada. Through techniques such as doubling (mirrors), juxtaposition (collage), overlay (projection), or mimicry (casting), they make architectural works that convey a multitude of viewpoints at a time.



**Daniela Sandler** has a professional degree in architecture and urbanism from the University of São Paulo in Brazil. Her scholarly work combines her professional training as an architect with an interest in memory, history, culture, social justice, and equitable cities. Her main current research project maps

grassroots urbanism in São Paulo, that is, community initiatives that attempt to improve the city from the ground up, outside of formal public or private institutions.



**Malini Srivastava, AIA**, through her practice and research, negotiates the systemic tug-of-war between scarce resources and human agency within infrastructural systems. She works on creating large-scale impacts through small-scale, pervasive play frameworks designed to overtly and covertly intervene

and disrupt existing imbalances in resource use and resultant impact. With an eye toward systemic shifts, she plays with teaching methods, materials, buildings, and urban-scale (and beyond) interconnected infrastructures in order to enable cognitive diversity and structured human agency.

**TH54. Room 102C, Capacity 280****How to Convince Clients to Invest in Sustainability**

Sponsored by the AIA Minnesota Residential Architecture Committee

1.5 LUs

HSW

Experience Level: Entry

Architects have been at the forefront of sustainable design, but sustainability often does not get the attention it deserves and is not adequately discussed with clients. Why is this the case, and what can be done differently? The presenter of this program is a Minneapolis-based homeowner who led the process of getting her own home—designed by David Salmela—LEED Gold certified 10 years ago. The session will provide a framework for discussing the three major benefits of investing in sustainable design: for our health, wealth, and soul. This session will also address the LEED for Homes rating system so that architects can discuss with clients whether or not to pursue LEED certification, and how to incorporate the “best of” LEED—before dismissing it as not worth it.

**Learning Objectives**

1. Analyze, present and discuss the financial benefits of sustainable design and construction with clients and show how it offers a good return on investment.
2. Present and discuss the individual health benefits of sustainable design and construction with clients.
3. Present and discuss with clients how all investments in a more sustainable home will improve our collective health and wellbeing.
4. Explain “the best of” the LEED for Homes rating system in a way that is simple, accessible, and makes sense to clients, including energy savings, water efficiency, reduction in carbon emissions, reduction in waste sent to landfills, improved indoor air quality, protection of natural resources, and choosing a socially responsible site, all of which impact resilience and the future of the world in which we live.



**Melissa Rappaport Schiffman, LEED AP Homes**, is the founder of Green Intention LLC and the editor-in-chief for Rise, an online platform that helps homeowners turn any home improvement project into a sustainable one. She has provided sustainability advisory services to businesses, governmental agencies, and nonprofits,

focusing on strategic and operational change that provides bottom-line financial returns. With an M.B.A. in finance and Master's in public policy from the University of Chicago, she is an expert at conducting cost/benefit analyses and communicating bottom-line results in a succinct, accessible way. She is the author of *Building a Sustainable Home: Practical Green Design Choices for Your Health, Wealth, and Soul* (Skyhorse Publishing, September 2018).



**David Salmela, FAIA**, Salmela Architect, has practiced architecture in Minnesota since 1969. Besides his many state and national design awards, he has had two books published on his work, authored by Thomas Fisher and published by the University of Minnesota Press. His work has been highlighted in over 50 design books and over 100 articles locally, nationally, and internationally.

A book signing of *Sustainable Home: Practical Green Design Choices for Your Health, Wealth, and Soul* by Melissa Rappaport Schiffman will take place immediately following this program.



2:00 p.m. – 3:30 p.m.

**TH55. Room 102D, Capacity 280**

## 2 + 2: Achieving Outstanding Design

Sponsored by the AIA Minnesota Committee on Design

1.5 LUs Experience Level: Intermediate

This program will examine the impact that experienced architects have made in achieving outstanding design through their leadership and entrepreneurship, as well as the influence that young architects wield in raising the bar for our next generation. The session will explore the importance of how designers can shape our industry and communities, how architecture connects with the public, and how industry leaders are key to the success of outstanding design.

### Learning Objectives

1. Explain how young architects exhibit leadership and reveal the significance of architecture in a complex, multi-faceted profession.
2. Examine how award-winning architects realize good design in projects ranging from small private community projects to large-scale institutional and commercial projects.
3. Describe how a young architect's interests, ideas, and actions can contribute to good design and successfully support the visions and needs of their clients, organizations and communities.
4. Examine how academic, community, professional, sustainable and/or integrated practices advance good design the value of design through the work of young architect leaders.



**John Barbour, FAIA**, partner at Shelter Architecture, lives and breathes design and cannot remember a time when he was not sketching up an idea. For the past 30 years, he has taken a team-driven approach to design that invites stakeholders and community members to develop a shared vision of for the final

product. John is the past President of the American Institute of Architects St. Paul Chapter. He has served on numerous AIA committees over the years; most notably, the Lake Superior Design Retreat committee and the Minnesota Design Team.



**John Dwyer, AIA**, is chair of the Architecture Drafting and Design, Bachelor of Architecture, and Interior Design degree programs at Dunwoody College of Technology. He is also the founding principal of Dwyer Oglesbay Architects. In both practice and academia, John seeks to expand the influence of the architecture

profession toward the sustainability of humanity. Pedagogically, he employs the principles of public interest design and global practice toward service-based learning.



**Thomas Hysell, FAIA, LEED AP BD+C**, principal at Alliance, has concentrated his career on project management for public and private clients, along with firm management. Tom has led a number of the firm's most significant projects including the Target Center Renovation, Minneapolis Central Library, and the UM

TCF Bank Football Stadium, along with national and international airport projects. Tom was the 2014 AIA Minnesota president and now is serving a ten-year term on the national AIA Documents Committee.



**Heidi Neumueller, AIA**, is a senior associate at Cunningham Group Architecture. She is passionate about design leadership and her work is focused on creating flexible and innovative educational environments. Heidi recently led a series of design workshops sponsored by American Architectural Foundation's Design for

Learning. Her research into the design of inclusive restrooms is helping districts across the country understand the key design components that contribute to safety and security of students.

**TH56. Room 208B, Capacity 110**

## Cultural Expression in Contemporary Indigenous Design

Co-Sponsored by the American Indian Council of Architects and Engineers (AICAE) and the AIA Northern Minnesota Chapter

1.5 LUs Experience Level: Entry

This seminar will feature representatives from the American Indian Council of Architects and Engineers (AICAE) who will discuss how Native American architects and engineers create culturally appropriate, functional buildings from an Indigenous perspective. Participants will gain insight into the unique qualifications and processes that an Indigenous architect/engineer/designer can bring to a project and how Native authorship is critical to sovereignty and self-determination efforts. This seminar will challenge the tired stereotypical clichés seen too often in recent tribal design and discuss the central issues surrounding the importance of culturally appropriate expression in architecture.

### Learning Objectives

1. Examine traditional Native American communities prior to colonization and the reservation system and explain how their dwellings and community organization were a direct reflection of each tribe's unique culture.
2. Discover how centuries of colonization have influenced the quality of the tribal communities and how tribal architecture has been affected by social and economic conditions.
3. Explain how Native American communities have continued to thrive, partly due to a re-emergence of appropriate culturally-influenced design.
4. Examine the mission of the American Indian Council of Architects and Engineers and discover the benefits of and the resources available for teaming opportunities and collaboration.



**Mike Laverdure, Migizi Miigwan** (Eagle Feather) is an Anishinaabe (People From Whence Lowered) from the Makwa Doodem (Bear Clan) and an enrolled member of the Turtle Mountain Band of Chippewa, Mikinaak Wajiw, located in Belcourt, North Dakota. Mike is a partner at DSGW Architects and is president of the indigenous-owned firm First American Design Studio. Mike is a past president of AICAE and is also a board member and Sequoyah Fellow of the American

Indian Science and Engineering Society. Working with Indigenous nations throughout the United States, Mike has designed a wide variety of design and architectural projects including schools, community centers, clinics, casinos, multifamily housing, museums, and more.





**Sam Olbekson, Assoc. AIA**, founding principal, CEO, Full Circle Indigenous Planning, has more than 20 years of experience as an interdisciplinary designer, working successfully with Native American clients on dozens of culturally significant planning and design projects throughout Indian Country. An enrolled member of the

White Earth Nation of Minnesota Ojibwe, Sam practices both large-scale tribal master planning and culturally sensitive building design. He currently serves as president of the board of directors for the Minneapolis American Indian Center, board chairman for the Native American Development Institute, and board president for AICAE.

**3:45 p.m. – 5:15 p.m.**

**TH57. Room 103C, Capacity 600**

### Keynote Address: Jurors Show and Tell and Announcement of Winners

Sponsored by the AIA Minnesota Committee on Design

1.25 LUs Experience Level: All

Featured in this keynote address are the three nationally known architects on this year's AIA Minnesota Honor Awards jury. Each will speak of their practice and unique projects through a presentation of their work. The program will conclude with the announcement of the 2019 AIA Minnesota Honor Awards recipients. Attend and share in the celebration of Minnesota architects and award-winning design.

#### Learning Objectives

1. Compare and contrast the work of three award-winning firms with national and international influence.
2. Identify the design details that make their projects unique.
3. Assess how the design processes and practice philosophies are similar or different from your own.
4. Examine the projects that have been selected to receive awards and identify the ways they exemplify design excellence.



**Noah Biklen, AIA**, is a partner at the New York firm Deborah Berke Partners. He leads projects for academic and cultural institutions that are in the process of transformation or reinvention. Biklen's work includes the award-winning Cummins Indy Distribution Headquarters, Rockefeller Arts Center at SUNY

Fredonia, and the North Penn House. Biklen has taught at Parsons and the Yale University School of Architecture. He received an A.B. from Brown University in urban studies and an M.Arch from Yale University.



**Steve Dumez, FAIA**, is principal and director of design of the New Orleans studio EskewDumezRipple. Under his leadership, the firm has received numerous prestigious awards for design excellence, including more than 50 national awards. Dumez has been a frequent keynote speaker at institutions across the country,

and his work has been featured in numerous national and international publications. He received a B.Arch from Louisiana State University and an M.Arch from Yale University.



**Anne Schopf, FAIA**, is a design partner at Mahlum in Seattle, where she strives for the highest quality of design within strict parameters of performance. Three of her projects have been recognized with COTE Top Ten Awards, and in 2013 she was awarded the AIA Northwest and Pacific Region Medal of

Honor. Schopf has held leadership positions with AIA Seattle and the AIA National Committee on Design, and she currently serves on the AIA National COTE Advisory Group.

**5:30 p.m. – 7:00 p.m.**

### TH58.

### FREE! Member Reception at Westminster Presbyterian Church

Sponsored by Mortenson



Wind down your day with a drink and light bites at Westminster. Network and socialize with new and old colleagues. Find out if you are a winner of one of the Minnesota Architectural Foundation raffle items.

8:00 a.m. – 10:00 a.m.

**F59. Room 211B, Capacity 480**

## Minnesota Amendments to the 2018 International Residential Code

Sponsored by the AIA Minnesota Building Codes Knowledge Community

2.0 LUs | HSW | Experience Level: Intermediate

This course will focus on Minnesota Rules, chapter 1309 and amendments to the 2018 International Residential Code. The purpose and intent of these amendments will be covered so that stakeholders are prepared for the new code provisions anticipated to be effective in March 2020.

### Learning Objectives

1. Explain how and why model codes are amended and the process of justifying the proposed amendments for Minnesota.
2. Examine the Minnesota Rule, chapter 1309 that adopts the 2018 IRC by reference including terms such as; amend, modify, delete, and repeal.
3. Apply specific amendment provisions to the design and construction of their projects.
4. Explain the purpose and intent of amendments to their staff and customers.



**Richard Lockrem** is a building code representative at the Minnesota Department of Labor and Industry, Construction Codes and Licensing Division. He has worked in the Plan Review Section, Education, Rules and Code Development Section, and is currently the Senior Code Development Coordinator for the adoption

of the 2018 international model codes for Minnesota. Richard has been the technical advisory group (TAG) leader for the 2006, 2012, and 2018 International Residential Code adoptions. He also provides technical assistance on the code content to shareholders and participates in the development and presentation of educational seminars when available.

**F60. Room 208B, Capacity 110, Workshop**

## The Ethics of Diversity

2.0 LUs | Ethics | Experience Level: Entry

As diversity becomes a topic of greater discussion both in society and our profession, what are the ethical expectations of individuals and firms? This session will elaborate on the differences between ethics and morals as they relate to diversity, and will discuss the legal requirements of many diversity-related regulations and acts that apply to architecture firms both large and small.

### Learning Objectives

1. Define ethics and morals and how they relate to diversity, personal conduct and business practices.
2. Discuss what is legally expected of firms with respect to diversity, including requirements of the Family Medical Leave Act, Equal Employment Opportunity Regulation, Equal Pay Act, and Affirmative Action Plans.

3. Examine the AIA Code of Ethics (and parallel documents), MN Board Rules of Professional Conduct with respect to diversity.
4. Discuss real-life scenarios in small groups in order to better understand and apply ethical decision-making.



**Amy L. Kalar, AIA, LEED AP BD+C**, is a registered architect at Cuningham Group Architecture with over 15 years of experience in the field. Amy is a member and co-founder of AIA Minnesota's Women in Architecture Committee and is currently president of the Minnesota Architectural Foundation. Today, Amy continues to

advocate for women in architecture and sheds light on the daily issues that women face within the profession.



**Mark Kalar, AIA, Esq.**, is chief corporate counsel at Cuningham Group Architecture. Relying on 20 years of experience as an architect, he frequently speaks and writes on ethics, public policy, risk management, and other topics related to the intersection of law and the built environment. Mark is an In-House Counsel

Fellow with the American Bar Association's Forum on Construction Law and past co-chair of AIA Minnesota's Government Affairs Committee.

8:30 a.m. – 10:00 a.m.

**F61. Room 102D, Capacity 280**

## Applying the 21st Century Development Matrix in Minnesota

Sponsored by the 21st Century Development Task Force

1.5 LUs | HSW | GBCI | Experience Level: Entry

The 21st Century Development (21CD) Matrix is a new tool to help create a healthy environment for all people and living systems now and in a dynamic future. Experts on the 21CD Matrix have developed a protocol to apply the Matrix to Minnesota projects, from the Towerside Innovation District to the Rochester Destination Medical Center (DMC) Economic Development District (EDA). Join us to hear the results of that research, see where Minnesota developments land on the Matrix, and hear what they are doing to advance their projects toward regenerative status.

### Learning Objectives

1. Examine the 21CD performance areas—equity, beauty, materials, health and happiness, energy, water and place—and explore ways architects can apply the strategies suggested to their projects, thus contributing to a healthier environment in which occupants live, work, and play.
2. Describe how Minnesota developers are using 21CD in order to improve the health and environmental profiles of the communities in which developments are sited, protecting residents from unsafe and unhealthy conditions, increasing equity for all, and improving the economic futures of their projects.

3. Examine the process undertaken by the 2ICD research teams to assess development projects and thus be better equipped to apply 2ICD practices to their own projects contributing to a healthier environment and communities that are sustainable and resilient.
4. Explain the policy and financial barriers to 2ICD advancement.



**Kevin Bright, CEM, LEED AP BD+C, and O+M**, is the Energy and Sustainability Director for the DMC EDA and the City of Rochester. His main functions are to ensure the DMC development projects meet the energy and sustainability goals outlined in the DMC Development plan; convene the Energy Integration Committee,

a collection of energy-focused stakeholders to discuss and implement high-level energy goals for development; and advocate for sustainability, health and wellness issues throughout the community.



**Jeff Ellerd** is a developer with the Wall Companies who has been working in all facets of real estate development and civil and environmental engineering for more than 20 years. He is the project manager for Malcolm Yards, the nearly 20-acre redevelopment of the former industrial property near UMN and Surly Brewing.



**Jennifer Garman, AIA**, is an architect at Cuningham Group Architecture. She brings a holistic design approach to each project in which she is involved. Her passion to create ecologically-mindful buildings and spaces that improve occupant well-being is at the core of her approach. Throughout the design process,

Jennifer collaborates with clients and consultants to realize innovative visions for 21st century learning.



**Richard Gilyard, FAIA**, is a practicing/consulting architect who serves as president of Prospect Park 2020, Inc., and is a board member of the Prospect Park Association and the University District Alliance. He serves as a board member of the Towerside nonprofit organization, which advocates for the vision of the Towerside Innovation District.



**Lucas Glissendorf, Assoc. AIA, LEED Green Associate**, an architectural designer at BWBR, brings academic and professional experience in architectural research to the 2ICD team. His experience includes research method development and pre- and post-occupancy evaluation. Lucas has a UMN M. Arch., where he was involved in the school's Consortium for Research Practices.



**Jeffrey Mandyck, AIA, LEED AP**, Higher Education Studio leader and design principal, Cuningham Group Architecture, serves as chair of AIA Minnesota's 2ICD Task Force. Focusing on learning, campus, and community environments throughout his 26 years of architecture practice, Jeffrey has led award-winning designs through values- and vision-based approaches.



**Maria Petrova, Assoc. AIA**, is a designer at Cuningham Group Architecture. She has a UMN M.S. in research, with experience in research on sustainable building materials and Life Cycle Assessments.



**Dustin Schipper**, research specialist, Cuningham Group Architecture, joined the firm in January of 2016 to kick off his research for the UMN M.S. in Architecture— Research Practices, which integrates a structured path to architectural licensure with research in practice.



**Jesse Turck, AIA, LEED AP BD+C**, is an architect and project manager at BWBR and 2019 AIA Minnesota Young Architects Award winner. He has proven expertise in and passion for sustainable design and climate change advocacy, and regularly engages in architectural work and community service to advance solutions in these areas.

## F62. Room 102C, Capacity 280

### Transforming the Suburban Mall in a Changing Retail Landscape

1.5 LUs Experience Level: Intermediate

In Minnesota, we are seeing mall owners planning and investing in completely new ways beyond simply re-tenanting malls with the hippest new retail destinations. This panel of professionals currently working on suburban mall redevelopment in our region will explore the challenges they face and share their experiences. The program will specifically explore the role of the architect and designer in creating compelling experiences that bring these buildings closer to the original vision Victor Gruen had for malls.

#### Learning Objectives

1. Describe how architects are responding to the challenges of today's retail environment.
2. Explain the perspective of cities in mall redevelopment.
3. Discover new techniques to transform retail into vibrant mixed-use destinations.
4. Examine the perspective of retailers and mall owners.



**Sigurd J. Anderson** will serve as moderator of this discussion. Sigurd is a co-founder and CEO of City Center Realty Partners, LLC (CCRP). For the past 25 years he has overseen new development and acquisitions of over \$1 billion in commercial real estate projects across the country. As CEO of CCRP, he is responsible for setting

strategic goals, directing and overseeing company investments, due diligence, capital markets, asset management, and firm operations.



**Bill Baxley, AIA**, is the managing director and principal of the Minneapolis office of Gensler. Through an approach that emphasizes dialogue, transparency, and inquiry, Bill leads teams in the realization of ideas that support the dynamic framework of life. Bill has had recent experience on the master plan for Rosedale Mall, the Dayton's

redevelopment on Nicollet Mall, and also the vision plan for Burnsville Center.



**John Griffith** is the senior vice president of Real Estate and Development at Lifetime, where he oversees the development of new athletic facilities. John serves on the Board of Directors for CBL & Associates Properties, Inc. a real estate investment trust. John has served on boards and executive committees for a variety of

organizations including the International Council of Shopping Centers, the Minneapolis Downtown Council, and the Greater MSP economic development agency.

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8:30 a.m. – 10:00 a.m.

F62. (continued)



**Tom Whitlock, ASLA**, president of DAMON FARBER Landscape Architects and Urban Designers, has over 26 years of experience working collaboratively with public and private clients on a wide variety of retail and mixed-use developments. His most recent work includes integration of new housing, office, and retail uses around Southdale and Ridgedale malls, a vision plan for Center Village in Burnsville, and a new public park on the JCPenney site at Ridgedale Mall. He spoke last fall at the Minnesota Department of Employment and Economic Development on repurposing retail and big boxes.



**Julie Wischnack, AICP**, is the community development director for the City of Minnetonka. Previously, Julie served as planning director for the City of Hutchinson and city planner for the City of Minnetrista. Julie understands the challenges of development but recognizes the importance of bringing the public and private sectors together to resolve issues. Julie sits on the board of the I-494 Commission, co-chairs the Southwest Light Rail Technical Implementation Committee, serves on the Urban and Regional Studies Leadership Council (Minnesota State Mankato) and is co-chair of the ULI Community Development Council.

8:45 a.m. – 10:00 a.m.

F63. Room 208C, Capacity 209

Sketching in Today's Tech-Focused Environment

Sponsored by the AIA Minnesota Technology in Architecture (TAP) Knowledge Community

1.25 LUs Experience Level: Entry

In today's data- and computation-centric world, are the traditional ideas of sketching still relevant? Every day there are new tools that allow teams to work faster and more efficiently, leading to discussions of a paradigm shift in the way buildings are created. But has a shift really occurred? Join a panel discussion to look at what it means to sketch in the world of BIM and computational design. What will the design process look like in 50 years when today's interns are near retirement?

Learning Objectives

1. Examine the definition of "sketch" in today's architectural process of design.
2. Explore the tools that are used for the sketch process.
3. Examine how the process of sketching has evolved and explore what it will mean to create a sketch in 10...20...even 50 years.
4. Discuss the relevance of traditional sketching and how that method might work in harmony with advanced computational methods.



**Mike Engel, Assoc. AIA**, is a designer at Elness Swenson Graham Architects in Minneapolis. He is a co-chair of the AIA Minnesota TAP Knowledge Community. He has a particular focus on formulating and developing integration between the design and production teams, with a passion for integrating designers' conceptual hand sketches and artwork into modern technological tools.



**Adam Wilbrecht, AIA**, is the chief knowledge officer at Cuningham Group Architecture. At Cuningham Group, Adam leads the firmwide technology and research + development departments. He serves as the executive secretary for the AIA Large Firm Roundtable for CIOs and as the co-chair of the AIA Minnesota TAP Knowledge Community.

9:00 a.m. – 11:45 a.m.

F64. Capacity 30, Tour

Idiosyncratic City: Peculiar Programs in Complex Contexts

1.5 LUs Experience Level: Entry



Izzy's Ice Cream Factory and the Fast Horse office building — both by Salmela Architect and both located in rapidly transforming post-industrial neighborhoods in Minneapolis — hold a number of lessons and insights into the challenges and opportunities of small-scale urban projects. How can very tight constraints (small sites, restrictive code requirements, modest budgets, unique programs) help drive unconventional and idiosyncratic design solutions that both reflect and enhance their urban contexts? Learn about these challenges and discover award-winning design on this back-to-back building tour.

Learning Objectives

1. Compare and contrast the challenges and opportunities experienced by these two small-scale urban projects.
2. Explain how the site, codes, budgets, and unique programs for each resulted in idiosyncratic design solutions.
3. Examine how each both reflect and enhance their urban contexts.
4. Tour and experience each project and recognize the design elements that made them examples of award-winning architecture.

**Darin Duch**, Salmela Architect, has more than 25 years of experience in architecture during which time he has worked on numerous large-scale award-winning projects. His architectural work during the last 20 years has focused on high-performance educational, commercial, and residential facilities in both national and international arenas.



**David Salmela, FAIA**, Salmela Architect, has practiced architecture in Minnesota since 1969. Besides his many state and national design awards, he has had two books published on his work, authored by Thomas Fisher and published by the University of Minnesota Press. His work has been highlighted in over 50 design books and over 100 articles locally, nationally and internationally. He received the Gold Medal from AIA Minnesota and an Honorary Doctorate of Humane Letters from the University of Minnesota.

**Kai Salmela, Assoc. AIA**, Salmela Architect, has over twelve years of experience in the design profession spanning multiple scales including master planning, urban design, arts and cultural work, urban infill, rural structures, environmental graphics, information design, and graphic identities. He has held positions at Pentagram in New York, KPMB in Toronto, VJAA and Snow Kreilich in Minneapolis.

° The bus will leave the Convention Center at 9:00 a.m. from the Main Entrance by the Ballroom.

10:15 a.m. – 11:45 a.m.

### F65. Room 102C, Capacity 280

#### Minnesota Modern Masters: Oral Histories in Architecture

Sponsored by Minnesota Society of Architectural Historians (MNSAH)

1.5 LUs Experience Level: Entry

This presentation will showcase Phase III of “Minnesota’s Modern Masters: Oral Histories in Architecture,” partially funded by a Minnesota Legacy Grant. Phase III will include eight video interviews with leading modern-era Minnesota architects.

Program attendees will see edited video conversations of several of these interviews. The MNSAH panel will give firsthand accounts of how they worked together to create questions and how they drew out the recollections of the interviewees, as well as lessons learned and their plans to continue the Modern Masters interview project as funding allows.

#### Learning Objectives

1. Explore the design impact of modern architecture in Minnesota directly from the stories of practitioners and those who worked with them or wrote about them.
2. Describe the oral history process as applied specifically to architecture including best practices with the use of written transcripts, editing, and video documentation.
3. Examine specific case study examples of oral histories with a variety of practitioners and how they shared their recollections.
4. Discover how architectural stories and history can be broadly communicated and shared through a variety of formats including Vimeo, embedded video on websites, print, and public presentations.



**Gary Reetz, FAIA**, vice president, HGA Architects and Engineers, and chair of MNSAH Modern Masters, has made a lifelong commitment to architecture for arts and culture. Throughout his 48-year career, he has been instrumental in transforming HGA into a national design leader for cultural- and arts-related architecture.



**Linda Mack**, former editor of *Architecture MN*, was the architecture critic for the *Minneapolis Star Tribune* for 21 years. She covered developments from St. Anthony Main and the Lake Harriet Bandshell to Jean Nouvel’s Guthrie Theater and César Pelli’s Minneapolis Central Library. She continues to write for *Architecture MN* and other local magazines.



**Jane King Hession**, an architectural historian and curator specializing in modernism, is a founding partner of Modern House Productions and a former president of the Frank Lloyd Wright Building Conservancy. Her next book, *Elizabeth Scheu Close: A Life in Modern Architecture*, will be published in January 2020 by University of Minnesota Press.

### F66. Room 211B, Capacity 480

#### To Build or Not to Build: Is That the Question?

1.5 LUs HSW Experience Level: Intermediate

Are you spending too much money and exhausting too many resources on sustainable, responsible design? Believe it or not, sometimes the best solution is to not build a permanent building. Discover Lightweight and Temporary Environments (LiTE), an advanced methodology using lightweight, temporary alternatives that deliver greater value at lower costs, with less environmental impact. Explore this as a solution for a client who needs to start with building as little—and as lightly—as possible, or not at all.

#### Learning Objectives

1. Evaluate project program requirements and constraints to identify opportunities to use lightweight or temporary structures.
2. Identify project site and building spaces that respond to program needs that change over time.
3. Determine options for low-carbon footprint building systems, materials, and assemblies of lightweight, temporary solutions or structures.
4. Communicate clearly to the client the options and possibilities available for using the newest technology of lightweight structures.



**Thomas Fisher, Assoc. AIA**, is a professor and director of the Minnesota Design Center (MDC) and the Dayton Hudson Chair in Urban Design at the UMN College of Design. The MDC seeks to help cities rethink the assumptions and rewrite the rules guiding development to create a physical environment that is more sustainable, equitable, livable, and resilient.



**Bruce Wright, AIA**, is an architect and author who has written several books about design and designers. Formerly the managing editor of *Architecture MN*, Bruce was editor of the international journal *Fabric Architecture* for 16 years and has written for many other design publications. He taught portable structures and new materials at the UMN College of Design and currently teaches in the architecture and construction management programs at Dunwoody College of Technology.

10:15 a.m. – 11:45 a.m.

**F67. Room 102D, Capacity 280**

**Daylighting Metrics and Poetics**

1.5 LUs | HSW | GBCI | Experience Level: Entry

A growing body of knowledge illuminates the impacts of lighting not only on our ability to perform visual tasks, but also on our comfort, moods, and biological processes. Correspondingly, the past decade has seen a proliferation of daylighting metrics and analysis methods to help designers meet green building standards. But relying too heavily on these methods presents a risk of reducing daylighting design to a quantitative exercise, overlooking the qualitative, aesthetic, and experiential aspects of design. This session combines the metrics of daylighting with the poetics, providing a comprehensive approach for designers looking to improve daylight quantity and quality in the spaces they design.

**Learning Objectives**

1. Explain the linkage between daylighting design, sustainability, and occupants' health, well-being and work performance.
2. Demonstrate how to use daylight programming to set qualitative and quantitative daylighting goals.
3. Compare and contrast the daylighting metrics used in green building rating systems.
4. Incorporate daylighting metrics and poetics into the design process to improve occupant health and well-being.



**Becky Alexander, AIA, WELL AP**, is an architect and researcher at LHB, Inc., where she does a combination of sustainable building research and architectural design. is the primary researcher for the Regional Indicators Initiative (RII), a program that tracks annual performance metrics for Minnesota cities.

She is also on the management team for the State of Minnesota's B3 and SB 2030 programs, where she tracks performance metrics and sustainable strategies of state-funded buildings through her work managing the online B3 Case Studies Database.



**Mary Guzowski** is a professor in the UMN School of Architecture where she teaches and conducts research related to daylighting and sustainable design. Mary has written three books on daylighting and solar design, as well as a variety of web-based design resources and scholarly and professional articles. Recent research

has focused on aesthetic and ecological innovations in daylighting, solar architecture, and net-zero design.

**F68. Room 208C, Capacity 209**

**Hotel Planning and Functional Design**

1.5 LUs | Experience Level: Intermediate

This program is an overview of hotel brands and categories in America. Case studies will illustrate a number of points about hotel functional space planning and design, including the impact of guest room tower configurations on efficiency

and the functional relationships between all back-of-house and public spaces. The examples will also illustrate important lessons learned and pitfalls to avoid. Finally, the session will address how site context directly influences the design of hotels.

**Learning Objectives**

1. Explain the hotel classification system for hotel brands in America.
2. Describe the impact of guest room tower configurations on the efficiency of the hotel.
3. Explain the functional relationships between all back-of-house and public spaces for full-service hotels.
4. Explore how site forces directly impact the functional layout and design expression of hotels.



**Mark Swenson, FAIA, LEED AP**, is a founding principal of Elness Swenson Graham Architects. Mark has grown a regional practice into a firm of national leadership and prominence in residential, hotel, and mixed-use development. His expertise is in hospitality, specifically the space programming and schematic design of hotels.

One of the leading hotel planners in the country, Mark has been principal-in-charge on more than 75 completed hotel projects. He is currently working on another 10 hotel projects in many states across America.

**F69. Room 208B, Capacity 110**

**Art of Renovation Design – From Point Clouds and Virtual Reality to Owner Handoff**

1.5 LUs | Experience Level: Intermediate

This session will discuss how to strategically develop modeling techniques that allow for flexibility of design through the unknowns that renovations bring. The presentation will examine strategies for each phase, from point cloud reality capture and modeling of existing conditions to virtual reality presentations, construction, and owner handoff. Attendees will discover modeling strategies that facilitate the flexibility needed to make big impact renovation design decisions.

**Learning Objectives**

1. Explain the advantages and pitfalls of modeling strategies for designing renovations.
2. Explain the advantages and pitfalls of reality-capture options and modeling existing conditions.
3. Explain the advantages and pitfalls of immersive design technologies (VR) showcasing big impact decisions with renovation design.
4. Describe the value of flexible modeling strategies needed for the unknowns that designing renovations demand.



**Ronald Brinkman**, digital practice manager, Leo A Daly, started his career as a carpenter, contractor, and assistant project manager. He loves seeing how people work together to bring a project to completion. During his career he began to have more of an interest in the logic and intimacy of working within

a design process rather than a building process and made a move from contracting to architecture.

**F70. Room 213B, Capacity 60, Workshop****Welcome 2 the Jungle**

1.5 LUs Experience Level: Entry

There are four animals that run any workplace: a lion, a flamingo, a chameleon, and a turtle! And each of them does things differently! What if you knew how each one operates, communicates, and works? Is your team missing a vital personality type or do they just need help understanding each other? No matter what the scenario, the information from this session can provide decision makers and team leaders with tools to create the best teams and supercharge their performance.

**Learning Objectives**

1. Identify natural “animal” tendencies and the tendencies adapted under stress.
2. Create a team of different “animals” in order to most effectively achieve your goals.
3. Differentiate capabilities of each of the “animals” on teams and discover how to communicate and work better with them without assuming or guessing.
4. Organize teams to be on the same page with one another to achieve the best performance.



**Jesse Ross**, director of special projects, Minneapolis Foundation, is an executive coach, consultant, and speaker who works with leaders and professionals on personal and professional development. In addition to coaching, Jesse is an international speaker, certified facilitator, and also a qualified administrator of the

Intercultural Development Inventory (IDI) which he includes in his diversity, equity, and inclusion work across the country.

**12:00 p.m. – 2:00 p.m.****F71. Room 103C, Capacity 410****Keynote Address and Lunch: Designing with Intention: How We Might Make Spatial Justice a Reality**

Co-sponsored by AIA Minneapolis and the Minnesota Architectural Foundation

1.25 LUs Experience Level: All

Concepts like equity have become part of mainstream conversations of what it means to create more inclusive towns and cities, which is something we should celebrate. But as we see increasing economic inequality, rising social and political tensions, and growing areas of exclusion, it's becoming clear that catalyzing just towns and cities requires more. This keynote address will explore what it means to think of design in this context and how increasing our relevance and delivering more impact means that we need to move beyond basic notions of equity to the more critical framing of justice.

**Learning Objectives**

1. Analyze the definitions of equity and spatial justice and explore the need to move beyond basic notions of equity.
2. Approach development with an acknowledgement of pain and past injustices in order to build people's capacity to stay in their communities.
3. Examine human-centered design methodologies for creating public spaces where everyone feels welcome and valued.
4. Examine case studies where the power of design was used to successfully catalyze sustained social impact.



**Liz Ogbu** is a designer, urbanist, and social innovator. She is an expert on social and spatial innovation in challenged urban environments globally. From designing shelters for immigrant day laborers in the US to a water and health social enterprise for low-income Kenyans, Liz has a long history of working with communities in need to leverage the power of design to catalyze sustained social impact. Liz is adjunct faculty at UC Berkeley and Stanford's d.school. Her projects have been featured in museum exhibitions and have been profiled in publications globally. Her honors include IDEO.org Global Fellow, Aspen Ideas Scholar, and one of Public Interest Design's Top 100. She earned architecture degrees from Wellesley College and Harvard University.

**2:15 p.m. – 4:45 p.m.****F72. Capacity 30, Tour****GOOOOAL at Allianz Field! Outside, Inside, and Underground**

Sponsored by Willdan and Xcel Energy

1.25 LUs HSW Experience Level: All

This tour of Allianz Field, new home to the Minnesota United Football Club in 2019, will begin in a club space for a brief presentation by team members representing the owner, architect, engineer, contractor, and utility.

The presentation includes discussion of project vision, design challenges, successes/lessons learned, and unique technical systems that can be applied to other project developments. The presentation will be followed by a tour that highlights Allianz Field from its signature exterior facade, interior fan experience features, “underground” operations, and (literally) underground sustainable rain harvest system.

**Learning Objectives**

1. Navigate the steps to maintain vision for a complex project, design features, and schedule.
2. Apply technical systems to other projects such as the underground sustainable rain harvest system.
3. Describe how new technologies or approaches were implemented to achieve sustainable design goals with an integrated design team.
4. Identify continuation of vision into building operation, facility demonstration, and ongoing sustainable effort promotion.

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2:15 p.m. – 4:45 p.m.

**F72. (continued)**

**Taylor Gunkel** is a design phase manager for Mortenson. He holds a B.S. in Construction Management from Colorado State University, and has worked on several high-profile projects in his role at Mortenson, including the Physics and Nanotechnology Building at UMN, the Mall of America Phase 1C project, and the Walker Art Center remodeling and expansion. He was the primary construction planner and scheduler for Allianz Field.

**Ed Hornfeck, PE, LEED AP**, is a principal in the Denver office of ME Engineers and has a long working career designing mechanical systems for various sport facilities. He is responsible for HVAC and plumbing system design and following those designs through the production of contract documents and construction administration. In addition, Ed coordinates the mechanical and plumbing systems with architectural, electrical, and structural systems; cost estimating, code reviews, energy analysis, and construction observations; technical specifications; and overall project management.

**Kris Kohls** is a product manager at Xcel Energy, responsible for managing and marketing energy-efficiency services offered to business customers for new construction projects throughout the company's Minnesota territory. She has over 20 years of experience and over the last five years, she has focused on driving the adoption of efficiency and sustainability practices developed specifically for the construction of commercial and industrial facilities.

**Phil Kolbo**, Populous, is an experienced architect with an extensive knowledge of stadium, arena, and convention center design. He currently leads the parametric modeling and computational design group for Populous' North America region as a Populous Intelligence Ambassador, creating and streamlining BIM tools unique to sports and convention center design. While at Populous, Phil has worked on the MasterCard Center for the 2008 Beijing Olympics, the New Arrowhead Stadium, Oklahoma City Convention Center, and DC United Stadium. He also helped lead the design for the San Antonio Convention Center, Orlando City Lions Stadium, and Minnesota United Stadium.

**Matt O'Boyle, PE**, senior associate, ME Engineers, is responsible for electrical systems design and project management. He has broad and comprehensive experience developing electrical distribution systems, lighting design, fire alarm systems, and life-safety systems for various building types including significant work with healthcare, sports facilities, and high-rise projects. His hands-on experience in construction administration activities, particularly for fast-track projects, gives him a seasoned perspective on the development and evaluation of value engineering, cost estimating, and oversight through construction and project closeout.

**Kara Vana**, special events coordinator for Minnesota United FC at Allianz Field, graduated with a degree in communications and sport management from the UMN – Twin Cities. Her responsibilities include building and implementing the tour program, working closely with other departments in coordinating internal tours and meetings, and planning and executing special events.

° **The bus will leave the Convention Center at 2:15 p.m. from the Main Entrance by the Ballroom.**



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**The American Institute of Architects Minnesota, founded in 1892, is the professional association for architects in the state of Minnesota.** As a state component of AIA National, with three local chapters, AIA Minnesota has over 2,300 members and a staff of nine professionals. AIA Minnesota provides services to all chapters, produces a regional conference, publishes the award-winning magazine *Architecture MN*, lobbies on behalf of the profession at the state legislature, and delivers continuing education to all members.

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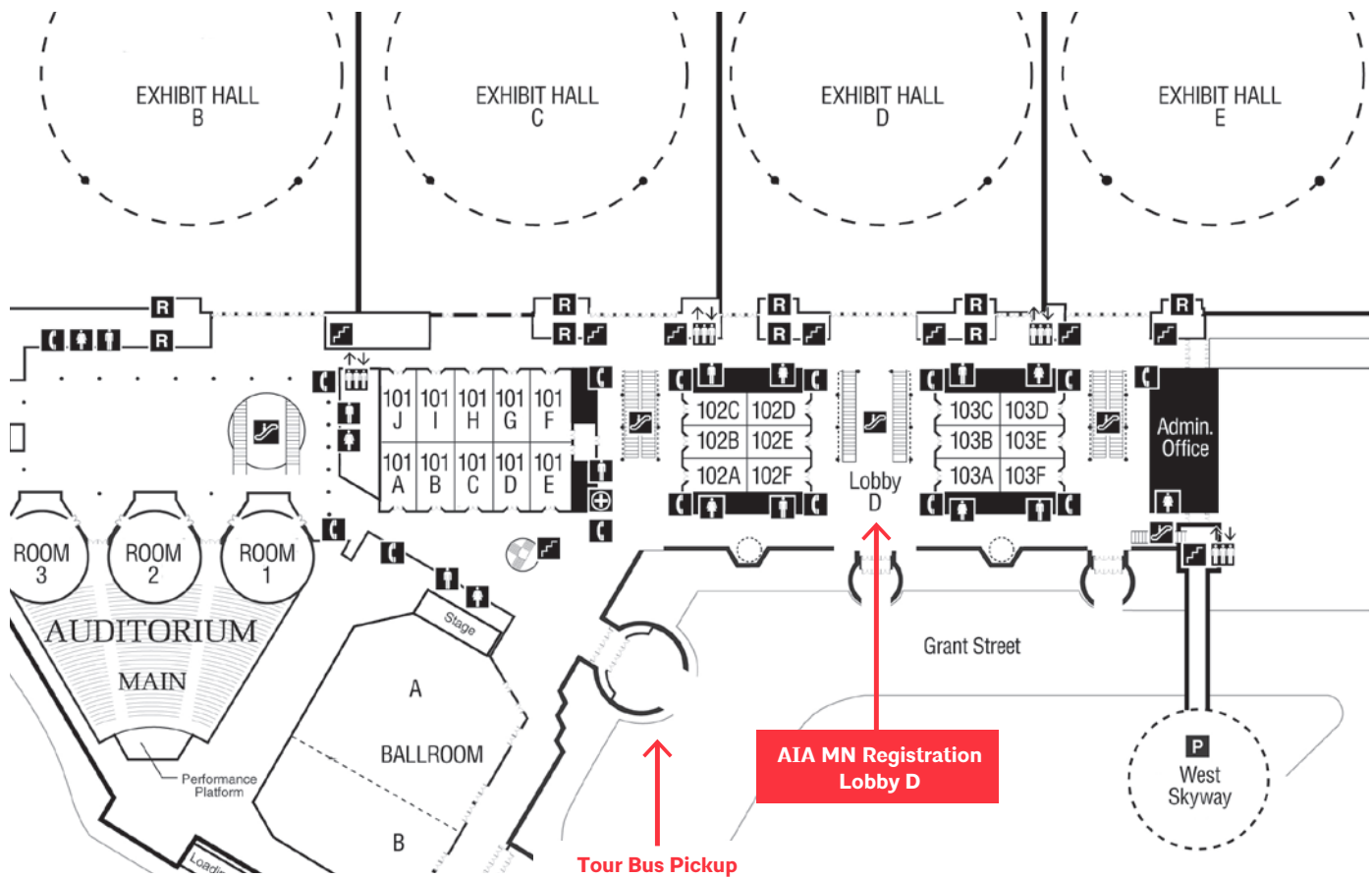
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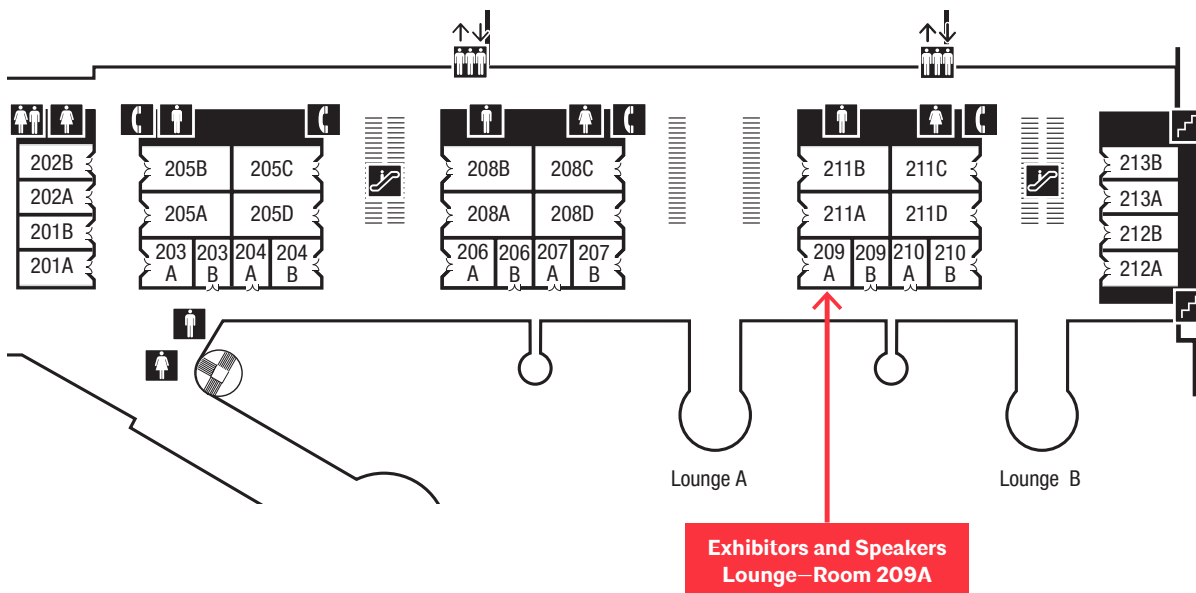
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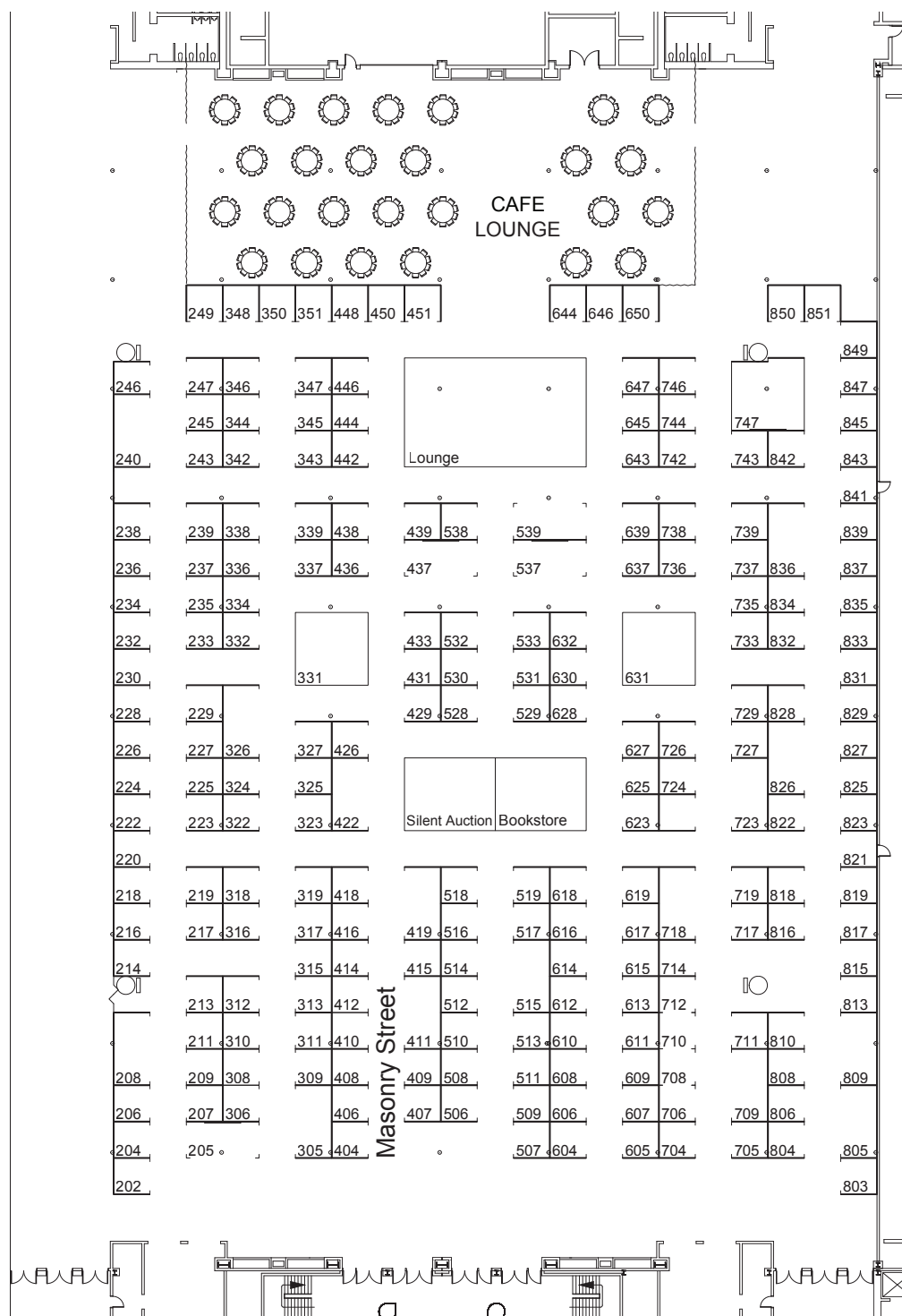


**Exhibit Hall Hours**

- **Tuesday**  
4:00 p.m. – 6:00 p.m.
- **Wednesday**  
11:15 a.m. – 2:30 p.m.  
& 3:45 p.m. – 6:00 p.m.
- **Thursday**  
11:30 a.m. – 2:00 p.m.

**Entertainment & Activities**

- **Opening Night Celebration!**  
Join us for live entertainment, beer crawl, and light snacks as you explore the Exhibit Hall.
- **University of Minnesota Press Pop-Up Bookstore**  
Shop from a great selection of architecture-related books on display.
- **Awards Display**  
See the display of boards showcasing award winners for the Louis Lundgren Award and more.
- **Wednesday Evening Reception**  
Sample light bites and engage with exhibitors. Sponsored by MC&MCA and the exhibitors on Masonry Street. Wander down their aisle for networking, food and beverage.
- **Silent Auction**  
Bid on great art, hosted by Urban Sketchers–Twin Cities. Proceeds support MAF and Urban Sketchers–Twin Cities.



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### Broader/Longer Coverage

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The LP SmartSide limited warranty provides a 100% labor and material remedy during the first five years after installation. The James Hardie limited warranty remedies are limited to a return of the original purchase price and do not cover labor.

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WARRANTY FEATURE	LP SMARTSIDE TRIM & SIDING	JAMES HARDIE SIDING PRODUCTS
50-year coverage	YES	NO
Covers full cost of repair or replacement for 5 years	YES	NO
Warranty accounts for inflation and price increases	YES	NO
Product warranty covers all 50 states*	YES	NO
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Homeowner claim notification period	90 days	30 days



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The American Council of Engineering Companies of Minnesota (ACEC/MN) is the leading business practice and policy advocate for consulting engineering firms in Minnesota. Formed in 1949, ACEC/MN's 150 member firms, representing over 4,500 employees, provide services to all segments of society, including federal, state, and local governments, private industry, and the general public.

**American Hydrotech, Inc. 337**

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## Building Enclosure Council of Minnesota 348

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Chris Bubser  
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www.bec-mn.org

We are a non-profit organization made of AEC industry professionals that share an interest in high-performing building enclosures for buildings of all kinds – residential and commercial. BEC-Minnesota provides continuing education, hands-on training, building tours, and networking opportunities as well as a forum for discussing local issues. Recent events have included: Air Barrier Advancements and Coming Industry Change, with Laverne Dagliesh; Allianz Field envelope presentation and tour; Devil's in the Details: a hands-on masonry detailing workshop.

## C

## Cain Thomas Associates, Inc. 746

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Scott Thomas  
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Cory Casperson  
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Clark Engineering is devoted to providing superior engineering and advanced technical solutions for a better tomorrow. We specialize in structural and civil engineering, land surveying, environmental services, resource recovery, and renewable energy. Clark serves clients across the retail, education, energy, government, healthcare, hospitality, industrial, multi-unit housing, transportation, and water/wastewater markets.

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Suite 350  
Minneapolis, MN 55416  
952-564-3044  
Gary Patrick 763-546-3434  
gpatrick@inspec.com  
www.csi-msp.org

CSI is a national association of more than 8,000 volunteers, including specifiers, architects, engineers, contractors, facility managers, product representatives, manufacturers, owners and others. The mission of CSI is to advance building information management and education of project teams to improve facility performance. CSI is dedicated to improving the communication of construction information through standards and formats along with education and certification.

**Continuum Construction, Inc. 528**

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Cost, Planning & Management International, Inc. (CPMI) is a professional firm providing cost management services. Additional services include construction management, programming and planning, project management, construction consulting, and general contracting.

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## D

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## E

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Emanuelson-Podas (EP) is a mechanical and electrical engineering firm specializing in the design of HVAC, building automation, plumbing, lighting, power, communications, life/safety, power generation, and sustainable building systems, and offering full building commissioning and energy modeling services.

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With our uniquely engineered high-performance products — LP® SmartSide Trim & Siding, LP® FlameBlock® Fire-Rated OSB Sheathing, LP® TechShield® Radiant Barrier Sheathing, and LP Legacy® Sub-Flooring — you'll find we're outpacing the industry when it comes to providing durable, dependable building solutions. Our products are innovatively designed to withstand the toughest conditions, to meet and exceed codes, and to be easily installed.

**LS Black Constructors 625**

1959 Sloan Place, Ste. 220  
St. Paul, MN 55117  
651-774-8445  
Dan Weinmeyer  
dweinmeyer@lsblack.com  
www.lsblack.com

LS Black Constructors is a dynamic, full-service commercial construction company with its corporate headquarters located in St. Paul. Serving both local and national markets since 1977. We've built our business with a laser focus on delivering exceptional results, with each team member dedicated to our clients' overall success.

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Our core strength is employing a comprehensive preconstruction process that delivers a project from inception to completion, aimed at meeting our clients' requirements that is both functional and financially viable.



## M3Sixty/FunderMax 516

1387 Cope Avenue East  
Maplewood, MN 55109  
651-202-2660

Nick Swendra  
nick@m3-sixty.com  
www.m3-sixty.com

M3Sixty is an independent manufacturers' rep firm specializing in a variety of exterior envelope products. In conjunction with FunderMax, we are excited to be part of A'19 MN. FunderMax is the industry leader in compact phenolic panels. Their highly durable exterior wall cladding is both beautiful and resilient.

## M.G. McGrath, Inc. 514

1387 Cope Avenue East  
Maplewood, MN 55109  
651-704-0300

David Rasmussen  
dave@mgmcmgrath.com  
www.mgmcmgrath.com

In 1985, Mike McGrath envisioned a company that provided higher quality, and the best of customer service in the architectural surfaces industry. Today, M.G. McGrath is an award-winner and industry-leader, providing creative solutions in design, fabrication, and installation of architectural surfaces including, but not limited to, the design, engineering, and fabrication of metal plate systems, composite materials, terra cotta, HPL panels, lite stone panels, curtain wall, other glass and glazing and all panel systems. Our team utilizes cutting-edge technology to increase the precision of work, decrease the time and money spent, and still maintain our caliber of quality.

## Magic Pak / American Standard 818

7150 143rd Avenue Northwest  
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763-427-9635

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Greg Boner  
greg@soderholmrep.com  
www.soderholmrep.com

Magic Pak, through-the-wall heating and air conditioning units for the apartment, student housing, and senior housing market. American Standard / Grohe plumbing fixtures, and faucets.

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## Major Industries, Inc. 332

7120 Stewart Avenue  
Wausau, WI 54401  
888-759-2678  
Mark Mitchell  
mmitchell@majorskylights.com  
www.majorskylights.com

Major Industries manufactures custom and pre-engineered skylights, wall systems, and canopies. From translucent panel systems to glass skylights to mixed-glazed systems that incorporate the benefits of glass and translucent panels, we have a daylighting system that's right for your next project.

## Marcus Construction 711

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Willmar, MN 56201  
320-894-2532  
Jim Bach  
jim@marcusconstruction.com  
www.MarcusConstruction.com

Marcus Construction, founded in 1956, is a family-owned construction manager and general contractor with a diverse portfolio including commercial, educational, health care, financial, retail, and industrial projects. Join us and experience our rich tradition of exceptional projects, premier design capabilities, extraordinary customer service, and spectacular results.

## Marvin 631

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Warroad, MN 56763  
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Customer Service  
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At Marvin, we are driven to imagine and create better ways of living. We put people at the center of everything we do and imagine new ways our products can contribute to happier and healthier homes.

Products: Marvin Modern

## Masonite 613

Zimmerman, MN 55398  
612-570-0430  
Lyle Vrana  
lvrana@masonite.com  
www.masonite.com

At Masonite, we understand that a door is much more than a door – it is the backdrop for those first-day-of-school photos, the perfect camouflage during a game of hide-and-seek, a warm welcome for family and friends.

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St. Paul, MN 55114  
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Simon May  
simonm@mccaren.com  
www.mccaren.com

McCaren Designs specializes in providing biophilic connections in the built environment using plants with a sense of design and purpose. Services include interior and exterior landscape design, install/construction, and ongoing maintenance. Full range of horticultural services including greenwalls, mosswalls, urban landscaping, and holiday decor.

## McElroy Metal 724

1500 Hamilton Road  
Bossier City, LA 71111  
800-950-6531  
John Atkinson  
jatkenson@mcelroymetal.com  
www.mcelroymetal.com

McElroy Metal, Inc. is a leading manufacturer of metal roofing, metal siding, and substructural components with locations across the United States. McElroy's product line includes a wide variety

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of architectural standing-seam-roofing systems as well as many industrial and commercial wall and roof panels.

## McGough 202

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## MEP Associates 819

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Eagan, MN 55121  
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Larry Nemer  
larryn@mepassociates.com  
www.mepassociates.com

MEP specializes in a broad range of technical services and innovative solutions for sustainable, energy-efficient systems and complex projects nationwide. Our design services include geothermal, mechanical, electrical, plumbing, fire protection, commissioning, retrocommissioning, consulting, energy modeling, and master-planning solutions.

## Mercury Mosaics 308

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### **Minnesota Concrete & Masonry Contractors Association (MC&MCA)** 412

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Roseville, MN 55113  
651-964-0772  
Jenae Goede  
jgoede@mcmca.com  
www.mcmca.com

We are a nonprofit trade association comprised of about 100 concrete and masonry contractors and related companies doing business in Minnesota. We offer contractor, associate, and design professional memberships. Our members benefit from a vast network, marketing resources, and ongoing support for labor negotiations.

### **Minnesota Design Team** 234

105 S. 5th Street, Ste. 485  
Minneapolis, MN 55401  
612-968-7208  
Stephan Roos  
roos008@umn.edu

The Minnesota Design Team (MDT) has been around since 1983. Its multidisciplinary teams have worked with more than 130 rural communities helping them to improve their built environments.

### **Minnesota Minority Goods and Services Association** 232

635 9th Street SE, Ste. 100  
Minneapolis, MN 55405  
612-597-7167  
Alicia Belton  
abelton@urbandesignccc.com  
www.mmgsa.org

We are a professional collaborative of minority-owned businesses comprised of service providers, consultants, and suppliers of goods and services located in the Minneapolis and St. Paul metropolitan area. The association has clients in several market types including commercial, government, public and private. Our market types are varied but are primarily healthcare and construction/building.

### **Minnesota Screens, LLC dba Phantom Screens** 829

8834 7th Avenue North  
Golden Valley, MN 55427  
763-425-4280  
Jeffery Johnson  
office@minnesotascreens.com  
www.minnesotascreens.com

Phantom Screens, North America's leader in retractable screen solutions, offers retractable screens for doors, windows, and large openings such as patios, porches, pergolas, and more.

### **Minnesota State Historic Preservation Office** 227

203 Administration Building,  
50 Sherburne Avenue  
St. Paul, MN 55155  
651-201-3287  
Catherine Sandlund  
catherine.sandlund@state.mn.us  
https://mn.gov/admin/shpo

The National Historic Preservation Act of 1966 provided for a network of historic preservation offices in every state to spearhead state preservation initiatives and help carry out the nation's historic preservation program. Minnesota's State Historic Preservation Office (SHPO) was created by state statute in 1969 to provide statewide leadership. Minnesota's SHPO administers several programs to help identify important historic and cultural resources and to create a climate to aid their preservation and restoration.

### **Mlazgar Associates** 506

10340 Viking Drive, Ste. 150  
Eden Prairie, MN 55344  
Scott Anderson  
scotta@mlazgar.com  
www.mlazgar.com

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expectations through all phases of a project. This will be accomplished with person to person service and the highest level of integrity, honesty, and respect for the relationships that have been built over decades.

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### **Molin Concrete Products Company** 322

415 Lilac Street  
Lino Lakes, MN 55014  
651-783-3403  
Greg Saterdalen  
gregs@molin.com  
www.molin.com

Molin Concrete Products is a proud designer, manufacturer, and installer of structural and architectural precast/prestressed concrete components. By offering product design, production, and installation of high-quality certified products, Molin can overcome the challenges of any project to achieve the best result. Headquartered in Lino Lakes, MN, Molin Concrete Products also operates a state-of-the-art automated wall panel production facility in Ramsey, MN.

### **Mortarr** 315

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Mortarr is an imagery-driven and search-focused website and app exclusively for commercial construction and design. Home to 20,000+ commercial project images from industry professionals and brands, Mortarr serves as an inspiration gallery, a networking and promotional tool for professionals, brands, and individuals within the commercial industry.

## N

**Nana Wall Systems, Inc. 618**

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**Nelson-Rudie & Associates, Inc. 239**

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www.nelsonrudie.com

Nelson-Rudie provides structural, mechanical, electrical, and refrigeration engineering services for nearly all building and project types, sizes and complexities. We have professional engineers registered across all 50 states, District of Columbia, and five Canadian provinces. Our work includes commercial/office, education, health, hospitality, industrial, multifamily housing, municipal, retail/restaurant, sports/recreation, and worship projects.

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## O

**Obermiller Nelson Engineering 639**

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## P

**PAC-CLAD | Petersen, a Carlisle Company 615**

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Parex USA, Inc. a California corporation, is a subsidiary of Sika USA., the world's leading manufacturers of specialty solutions for the construction industry. Parex USA, Inc. manufactures some of the leading brands in the industry with 12 manufacturing and distribution sites throughout the U.S. and growing. Some of these brands includes Parex, LaHabra, Merkrete, El Rey, TEIFS, Merlex, Variance, and Vero. Our product lines consist of Continuous Insulation (CI) Systems, Stucco Solutions, and Tile & Stone Installation Systems.

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Philip Daniel  
danielphilsky@gmail.com  
www.stainedglassphil.com

We design, fabricate, install, and restore stained and leaded glass. Attention to historic and architectural details is our strength.

**Porcelanosa****436**

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Chicago, IL 60654  
312-204-6220  
Thomas Ulrich  
tulrich@porcelanosa-usa.com  
www.porcelanosa-usa.com

Porcelanosa was founded over 40 years ago in a small village by the Mediterranean Sea in Castellon, Spain. Since then, they have been providing architectural and design solutions to consumers and the A&D community with unparalleled innovation, quality, and service. The family who originally founded Porcelanosa back in 1973 still runs it today under the same core values of work ethic and integrity.

**PowerLift Hydraulic Doors****739**

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855-368-9595  
Wade Smith  
wsmith@powerliftdoors.com  
www.powerliftdoors.com

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**Pulse Products****718**

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dana.krick@recorddoors.com  
www.recorddoors.com

Supply and install the Record sliding and swing door operators, revolving doors (manual/automatic), security revolvers, portal, turnstiles, and breach control lanes.

**Reigstad Engineers, Inc.****507**

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651-292-1123  
Jim Collins  
jcollins@reigstad.com  
www.reigstad.com

Established in 1979, Reigstad provides structural design, precast engineering, and parking consulting for both new and renovation projects throughout the US. Our goal is to provide a safe, efficient, and economical system tailored to our clients' needs, meeting time and budget requirements. We offer alternate design options for every project.

**Renlita Custom Opening Solutions****208**

2430 Albert Broadfoot Street  
Bonham, TX 75418  
903-583-7500  
Barbara Reeves  
breeves@renlitadoors.com  
www.renlitausa.com

Renlita Custom Opening Solutions is a US-based manufacturer of custom operable opening systems. Our vertical lift door, window and wall systems are handcrafted and can be used in a variety of application types. Product offerings include single panel, bifold, and stackable models. Every Renlita product is custom-made to project specifications, designed and built in the USA and shipped worldwide – concept to completion.

**Rise Modular****744**

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Minneapolis, MN 55402  
612-913-4943  
Wesley Carter  
wcarter@risemodular.com  
www.risemodular.com

Rise Modular is a Minneapolis-based volumetric modular manufacturer focused on hospitality and multifamily projects. Climate-controlled, precision construction in our state-of-the-art facility allows us to deliver significant time and cost savings. Our high-capacity facility and proprietary process allows us to build more than 1 million square feet per year while delivering higher

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c.pekron@roofspec.com  
www.roofspec.com

Roof Spec, Inc. (RSI), is an international independent engineering/architectural/consulting firm. We provide specialized services to our clients which include general consulting, document review, investigation, testing, design, and construction observation for the building envelope (roofing, waterproofing, flashing, and walls.) Our highly-trained technical staff has extensive experience and knowledge. RSI is committed to providing our clients timely answers and quality solutions to meet the highest professional standards.

**Rose-Fleischaker Associates****808**

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Minneapolis, MN 55401  
612-349-9884  
Hannah Fleischaker  
hannahrfa@officecenters.com  
http://rfassociatesinc.com

As manufacturers' representatives for several industry leading manufacturers, Rose-Fleischaker Associates offer a wide array of product knowledge in commercial roofing systems and sound control.

**Rulon International****217**

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Jason Schaum  
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<p><b>S</b></p> <p><b>SagePresence 809</b></p> <p>309 Clifton Avenue Minneapolis, MN 55403 612-384-0763 Pete Machalek pete@sagepresence.com www.sagepresence.com</p> <p>There are moments where confident presence is a must — shortlist interviews, business development conversations, inspiring and leading others, and more. SagePresence provides training, coaching, and interview preparation services to help AEC firms across the country built the confidence necessary to win business and cultivate client relationships.</p> <p>Visit our booth for a number of mini-sessions including: “5 Tips to Strengthen Interviews”, “The 2 Key Components of Presence”, “6 Steps for a Successful Brand Ambassadorship Program,” and more.</p>	<p><b>Schuler Shook 623</b></p> <p>219 SE Main Street, Ste. 200 Minneapolis, MN 55414 612-339-5958 Michael DiBlasi mdiblasi@schulershook.com www.schulershook.com</p> <p>Schuler Shook specializes in architectural lighting design and theatre planning. Our creative lighting designs enhance interiors, sites, and building façades. Lighting design services include conceptual design in collaboration with project designers, lighting feasibility and budgeting, lighting fixture layout drawings and schedules, energy analysis, daylighting calculations, landscape and exterior custom lighting fixture design, and control system specification.</p> <p>Projects include: Macalester College, Carleton College, Palace Theatre, ‘The Horn’ at Medtronic Plaza – US Bank Stadium, Pillsbury A-Mill, Mayo Clinic Square, Target Field Station, Ordway Center for the Performing Arts, Orchestra Hall.</p>	<p><b>Sherwin-Williams Company 306</b></p> <p>101 Prospect Avenue Cleveland, OH 44101 612-720-9934 James Bergevin james.r.bergevin@sherwin.com www.sherwin-williams.com</p> <p>Sherwin-Williams products include architectural and high-performance coatings, coil and ExtrusioMinn coatings, polyurethane sealants, intumescent fireproofing, powder coatings, and lacquer finishes for prefabricated wood, metal, and plastics. Major brands include Sherwin-Williams, Valspar, General Polymers, Minwax, and Uniflex.</p>	<p><b>Siplast 209</b></p> <p>1000 Rochelle Boulevard Irving, TX 75062 469-995-2200 Tom Vechey tom.vechey@siplast.com www.siplast.com</p> <p>Siplast is the leader in SBS-modified bitumen roofing membranes, liquid-applied PMMA roofing membranes, and solutions for communities such as decorative pavement coatings, waterproofing pedestrian plazas, and parking decks.</p>
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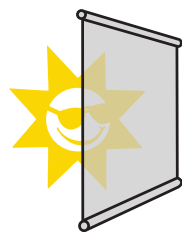
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