A’20 MN
The Minnesota Conference on Architecture
October 13, 20, & 27, 2020 | Virtual
For more than 60 years we’ve worked with architects, contractors and business owners to efficiently and sustainability bring air, power, light and water to the places that matter.

Let’s connect and do great things.
Welcome to the 2020 Minnesota Conference on Architecture!

Every year, the Minnesota Conference on Architecture brings our professional community together to connect, learn, and share. This year, due to the pandemic, the opportunities to connect may be new and challenging, yet the opportunities to learn and share will be more important than ever. The three areas of focus – Design for Positive Climate Impact & Environmental Justice, Resilience & Collective Recovery, and the Future of Design – are of immediate relevance to the future of our profession and our work as we face the interconnected crises of climate change and racial injustice during a period of deep economic uncertainty.

We need each other like never before. We need the knowledge and inspiration that come from our colleagues’ presentations and from engagement with our industry partners. AIA Minnesota also needs our attendance and engagement to support the important ongoing work of the association during a time of financial challenge.

Thank you for making the A'20 MN conference a priority. Thank you to AIA Minnesota staff, the Conference Programs Committee, exhibitors and sponsors, and everyone who has put in the hard work to develop our valuable programs on an accelerated schedule in an unfamiliar environment.

We all look forward to seeing you online!

Karen Lu, AIA, NOMA
AIA Minnesota President
CONFERENCE LOGISTICS

Continuing Education
AIA Minnesota is offering continuing education credit for programs at the Conference. All credits listed are pending AIA approval. Based on our review, Conference programs marked as HSW and the two programs marked for ethics will be accepted for Minnesota’s CE requirement for licensing. Take advantage of this economical and efficient way to get the credits you need for your AIA and State of Minnesota licensing CE requirements.

USGBC Minnesota
We recognize and thank the U.S. Green Building Council (USGBC) Minnesota for partnering with us so that we can provide GBCI credits for programs at this year’s Conference. GBCI credits are pending approval for the following programs:

- D1-2. Code Green – Programs to Support Your Performance Aspirations
- D1-17. Vision to Reality: A Shining Example
- D1-21. MN Sustainable Building Guidelines: Impacting the Human Experience on the UMN Campus
- D3-58. The Future of Regenerative Development: Hillcrest and LEED for Communities
- D3-66. SB 2030 ... Welcome to the (80 Percent to Zero Carbon Goal) Neighborhood

MAKE A GIFT TO THE WIGINGTON FUND AND THE MAF WHEN YOU REGISTER!

The Minnesota Architectural Foundation (MAF) benefits the community by funding crucial growth opportunities that educate, inspire, and support emerging architects and strengthen the architectural community. Through its scholarship, fellowship, and grant programs, the MAF invests in architectural students and professionals to promote excellence, encourage discovery, foster equity, and advance leadership in the architectural profession.

Due to the virtual nature of A’20 MN, MAF is not able to host their popular annual raffle. This is at a time when the need for MAF programs that support the architecture community is greater than ever.

When you register, please add a gift to the MAF and, in particular, to the Clarence Wigington Minority Architectural Scholarship Fund. It is imperative that we support the aspirations of Black and POCI students of architecture; having the architecture community reflect the broader public is key to creating a just and equitable built environment.

If you’ve bought a raffle ticket or bid on a silent auction item in the past, know that your support is needed even more today. When you register, please check the boxes and give to the MAF as you are able to support a stronger architecture community.

Conference Programs Committee
2020 has definitely not been the year that any of us planned for, in any aspect of our lives. Planning this year’s conference has been like no other. There were many uncertainties and questions on how we would make our annual conference possible. Our amazing team went above and beyond to make this event happen. They rolled with the punches because we know how valuable this conference is to our members. Though we may not be physically together this year, we hope that you are able to enjoy the conference and benefit from all the quality programming presented. In 2021, we hope we are able to come back together and be stronger, more knowledgeable, and better equipped to create better environments in our communities.

Stay strong and stay healthy,
Sarah St. Louis, Assoc. AIA

Co-chairs
Sarah St. Louis, Assoc. AIA, Best Buy
Jim Butler, AIA, LEED AP

Committee Members
Catherine Britt, AIA, LEED AP BD+C, Cuningham Group Architecture
James Gaspar, Assoc. AIA
Daniel Green, AIA, Miller Dunwiddie Architecture
Michael Kisch, AIA, LEED AP BD+C, Mortenson
Marcelo Pinto, AIA, LEED AP BD+C, Alliiance
Jonathan Strand, AIA, LEED AP BD+C, BTR
Rachel Usher, AIA, LEED AP, Mead & Hunt

Join the discussion online!
Use the hashtag #A20MN to connect with other conference attendees:

facebook.com/aiaminnesota
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- AIA Minnesota Committees/Knowledge Communities:
  - Architects Licensing Advisory Committee (Event D3-53)
  - Committee on Design (Events D3-52, D3-60, D3-68, D3-74)
  - Committee on the Environment — The Committee on the Environment spent hours developing programs and reviewing and selecting proposals for presentation on Day 1, October 13, “Design for Positive Climate Impact & Environmental Justice.” COTE endorses and supports this whole day.
  - Council of Firms Knowledge Community (Event D2-28)
  - Emerging Professionals Committee (Events D2-32, D3-53)
  - Women in Architecture Committee (Event D2-26)
- All Seasons Fireplace (Event D2-33)
- Andersen Windows (Event D1-5)
- Cemstone Products Company (Event D1-16)
- ConstructConnect (Event D3-64 Keynote Address)
- Designer Specialty Products (Events D2-43, D3-76)
- Dunham (Event D2-28)
- Energy Panel Structures (Event D2-35)
- Graef (Event D3-55)
- H+U Construction (Event D3-52)
- H. Robert Anderson & Assoc. (Events D1-2, D3-58, D3-72)
- Imeg Corporation (Event D1-21)
- J. E. Dunn (Event D2-37 Keynote Address)
- Konik PrimeStaff (D2-34)
- Kraus-Anderson (Event D2-29)
- Kraus-Anderson Insurance (Event D3-56)
- Lockton Companies (Event D2-42)
- MG McGrath (Event D3-68)
- Minnesota Concrete Council (Event D1-16)
- Obernel Engineering (Event D1-9)
- Schuler Shook (Event D3-61)
- Shingobee (Event D2-31)
- Sonus Interiors (Event D2-49)
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# EVENTS SUMMARY

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<tr>
<td>8:00 a.m.</td>
<td>8:15 a.m.</td>
<td>D1-1</td>
<td>Welcome and Convening Remarks</td>
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<tr>
<td>8:15 a.m.</td>
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<td>D1-2</td>
<td>Code Green – Programs to Support Your Performance Aspirations</td>
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<td>8:15 a.m.</td>
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<td>D1-3</td>
<td>Carbon in Architecture: Connecting the Dots in the Tool Kit</td>
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<td>8:15 a.m.</td>
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<td>D1-4</td>
<td>Landscapes of Environmental and Cultural Regeneration at the Bell Museum</td>
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<td>8:15 a.m.</td>
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<td>D1-5</td>
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<td>9:45 a.m.</td>
<td>10:15 a.m.</td>
<td>D1-6</td>
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<td>10:15 a.m.</td>
<td>11:45 a.m.</td>
<td>D1-7</td>
<td>Firm Transformation: Sustainability Measures in the Drawing Set</td>
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<td>10:15 a.m.</td>
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<td>D1-8</td>
<td>The Carbon Issue Live: Focus on Practice</td>
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<td>10:15 a.m.</td>
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<td>D1-9</td>
<td>Paying for Itself: An Indigenous Net Zero School</td>
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<td>D1-10</td>
<td>Low-Carbon Home: Minneapolis Straw Bale Passive</td>
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<td>12:30 p.m.</td>
<td>2:00 p.m.</td>
<td>D1-12</td>
<td>Keynote Address with Edward Mazria, FAIA: Doing the BIG Things...Together!</td>
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<td>2:30 p.m.</td>
<td>D1-13</td>
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<td>2:30 p.m.</td>
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<td>D1-14</td>
<td>The Ethics of Environmental Justice: Architects’ Call to Action</td>
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<td>Better Design Through Better Understanding of Embodied Carbon</td>
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<td>2:30 p.m.</td>
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<td>D1-16</td>
<td>21E Schools – Twenty-First Century Education/Net Zero Energy</td>
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<td>D1-17</td>
<td>Vision to Reality: A Shining Example</td>
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<td>3:45 p.m.</td>
<td>4:00 p.m.</td>
<td>D1-18</td>
<td>Sponsored Break: Live Chat with Kline Johnson</td>
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<td>4:00 p.m.</td>
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<td>D1-19</td>
<td>The Culture Change Imperative: How We Can Create the Culture the Profession Wants and Needs</td>
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<tr>
<td>12:30 p.m.</td>
<td>2:00 p.m.</td>
<td>D1-20</td>
<td>Habitecture: How Architects Can Save Species Through Design</td>
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<td>2:00 p.m.</td>
<td>2:30 p.m.</td>
<td>D1-21</td>
<td>Minnesota Sustainable Building Guidelines: Impacting the Human Experience on the UMN Campus</td>
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<td>D1-22</td>
<td>EV Capable or EV Ready: How to Approach EV Charging</td>
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<td>5:00 p.m.</td>
<td>6:00 p.m.</td>
<td>D1-23</td>
<td>Networking Social</td>
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**TUESDAY, OCTOBER 20:** Resilience and Collective Recovery, sponsored by JE Dunn

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<td>D2-24</td>
<td>Welcome and Convening Remarks</td>
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<td>8:15 a.m.</td>
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<td>D2-25</td>
<td>Beyond Engagement: What Community Visioning Processes Should Be</td>
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<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D2-26</td>
<td>Networking Breakfast with Women in Architecture</td>
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<td>9:45 a.m.</td>
<td>D2-27</td>
<td>Overcome the Overwhelm</td>
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<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D2-28</td>
<td>Pragmatism, Agility, and Well-Being: Business and Personal Resiliency for Leadership in a Dynamic Time and Practice</td>
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<tr>
<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D2-29</td>
<td>Design and Construction for Mental Health Post-Pandemic</td>
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<td>9:45 a.m.</td>
<td>10:15 a.m.</td>
<td>D2-30</td>
<td>Virtual Exhibit Hall</td>
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<td>10:15 a.m.</td>
<td>11:45 a.m.</td>
<td>D2-31</td>
<td>Firm Capacity Building Through Authentic, Collaborative Partnerships</td>
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<td>10:15 a.m.</td>
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<td>D2-32</td>
<td>Resilient Culture: Weather the Storm</td>
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<td>10:15 a.m.</td>
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<td>D2-33</td>
<td>Well-being, Trauma, and Resilience: The Science of Thriving</td>
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<td>10:15 a.m.</td>
<td>11:45 a.m.</td>
<td>D2-34</td>
<td>Winning AEC Interviews – Live, Virtual, and Hybrid</td>
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<td>10:15 a.m.</td>
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<td>D2-35</td>
<td>Paths to Net Zero Energy in Affordable Townhomes</td>
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<td>12:30 p.m.</td>
<td>2:00 p.m.</td>
<td>D2-37</td>
<td>Keynote Address with Dr. Mindy Thompson Fullilove, Hon. AIA: What Is Ours to Do? Finding Our Part in the Work of Collective Recovery</td>
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<td>2:00 p.m.</td>
<td>2:30 p.m.</td>
<td>D2-38</td>
<td>Virtual Exhibit Hall</td>
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<td>2:30 p.m.</td>
<td>3:45 p.m.</td>
<td>D2-39</td>
<td>Critical Conversation: What Is Ours to Do?</td>
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<td>2:30 p.m.</td>
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<td>D2-40</td>
<td>Critical Conversation: What Can Further Equity, Inclusion, and Resilience Among Small Firms?</td>
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<td>2:30 p.m.</td>
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<td>D2-42</td>
<td>The Shape-Shifting Standard of Care for Design</td>
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<td>2:30 p.m.</td>
<td>3:45 p.m.</td>
<td>D2-43</td>
<td>Designing for Resilience with the B3 Guidelines</td>
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<td>4:00 p.m.</td>
<td>5:00 p.m.</td>
<td>D2-45</td>
<td>Urban Determinants: Increasing Agency Through Socio-Political Analysis</td>
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<td>4:00 p.m.</td>
<td>5:00 p.m.</td>
<td>D2-46</td>
<td>The Culture Change Imperative: How We Can Create the Culture the Profession Wants and Needs</td>
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<td>4:00 p.m.</td>
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<td>D2-47</td>
<td>Tools for Personal Resilience: Mindfulness, Meditation, Yoga, and Art</td>
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<td>4:00 p.m.</td>
<td>5:00 p.m.</td>
<td>D2-48</td>
<td>The Ethics of Remote Work</td>
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<tr>
<td>4:00 p.m.</td>
<td>5:00 p.m.</td>
<td>D2-49</td>
<td>Campus B3 Benchmarking Analysis and Operations Planning Resulting from Work from Home</td>
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<tr>
<td>5:00 p.m.</td>
<td>6:00 p.m.</td>
<td>D2-50</td>
<td>Networking Social</td>
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**TUESDAY, OCTOBER 27: The Future of Design, sponsored by ConstructConnect**

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<th>Ethics</th>
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<tr>
<td>8:00 a.m.</td>
<td>8:15 a.m.</td>
<td>D3-51</td>
<td>Welcome and Convening Remarks</td>
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<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D3-52</td>
<td>Local Lessons from the COTE Top Ten</td>
<td>1.5</td>
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<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D3-53</td>
<td>The Future of Practice: Now and Later</td>
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<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D3-54</td>
<td>Toward Right-of-Reliance: Digital Modeling in Design and Construction</td>
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<td>8:15 a.m.</td>
<td>9:45 a.m.</td>
<td>D3-55</td>
<td>Living Design: A New Story of Life and Beauty in the Anthropocene</td>
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<td>8:15 a.m.</td>
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<td>D3-56</td>
<td>Toward More Inclusive, Equitable, Affordable Housing Outcomes</td>
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<td>9:45 a.m.</td>
<td>10:15 a.m.</td>
<td>D3-57</td>
<td>Virtual Exhibit Hall</td>
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<td>10:15 a.m.</td>
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<td>D3-58</td>
<td>The Future of Regenerative Development: Hillcrest and LEED for Communities</td>
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<td>D3-60</td>
<td>2×2: Achieving Outstanding Design – Engaging Communities to Shape the Future of Design</td>
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<td>10:15 a.m.</td>
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<td>D3-61</td>
<td>Design in the Post-Pandemic World</td>
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<td>D3-62</td>
<td>At Home with Growing Older: How Designers Can Help Us Reshape Our Long-Term Relationships with Our Homes</td>
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<td>12:30 p.m.</td>
<td>2:00 p.m.</td>
<td>D3-64</td>
<td>Keynote Address with James Garrett Jr., AIA, NOMA, and Dr. Rory Hyde: The Future of Design</td>
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<td>D3-65</td>
<td>Virtual Exhibit Hall</td>
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<td>2:30 p.m.</td>
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<td>D3-66</td>
<td>SB 2030 … Welcome to the (80 Percent to Zero Carbon Goal) Neighborhood</td>
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<td>2:30 p.m.</td>
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<td>D3-67</td>
<td>Business Case Studies for Equity in Goods and Services</td>
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<td>2:30 p.m.</td>
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<td>D3-68</td>
<td>Honor Awards: Jurors Show and Tell</td>
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<td>D3-70</td>
<td>Stories to Inspire and Tools to Transform Building Products</td>
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<td>4:00 p.m.</td>
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<td>D3-71</td>
<td>What You Need to Know About Antimicrobials</td>
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<td>D3-72</td>
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<td>D3-74</td>
<td>Architectural Competitions: Finding Your Voice</td>
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<td>D3-75</td>
<td>Worthy Curricula: Some Reflections on Architectural Education</td>
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<td>D3-76</td>
<td>Considerations for Building Design and Operations in Schools Post-COVID-19</td>
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Thank you to Platinum Sponsor Emanuelson-Podas for their support of the A’20 Minnesota Conference on Architecture.
From planning through installation, contact your local window and door experts at Kolbe Gallery Twin Cities for helpful tools, technical support and resources, including an extensive showroom and AIA Accredited Continuing Education Services (AIA/CES) workshops.
A growing number of stakeholders are identifying commercial building energy codes as a key tool to reduce emissions that contribute to climate change. The architecture community has a long relationship with building codes, participating in voluntary standards like the 2030 Commitment and Minnesota’s SB 2030 program. Now that discussions of raising the “safety net” of energy codes are emerging, new research and tools are available to help architects and their teams make sure that every building can leverage the successes and pitfalls of past projects. This session will focus on three areas: Research funded by the Minnesota Department of Commerce that identified key opportunities to close performance gaps; a proposed Xcel Energy program that will support code reviews and improve information transfer during permitting; and a statewide road map to increase opportunities to close performance gaps. Speakers will emphasize the architect’s role in designing to codes that achieve higher energy performance.

**Rick Carter, FAIA, LEED Fellow**, brings more than 38 years of experience to his role as chief executive officer of LHB. Rick works extensively on design for efficient resource use and occupant well-being, leading efforts for LHB to be visible experts in regenerative design and research. His projects range from the building to regional scales with the goal of contributing to achieving Minnesota’s greenhouse gas emission reduction goals. Rick helped develop the Hennepin County/Minnesota Sustainable Design Guidelines and currently co-manages the Buildings, Benchmarks and Beyond (B3) Project, including execution of sustainable guidelines for the State of Minnesota. His current projects include the ongoing development of the Regional Indicators Initiative, large-scale efforts created by LHB to provide data and tools for Minnesota local government energy and climate action.

**Anthony Fryer** is the conservation improvement program (CIP) supervisor for the Minnesota Department of Commerce. In this role, Anthony provides oversight and regulation for over 120 natural gas and electric utility energy efficiency programs as part of the implementation of Minnesota’s 1.5 percent energy efficiency resource standard. He has over 15 years of experience in the energy industry and holds a degree in geography from St. Mary’s University in the United Kingdom and a law degree from William Mitchell College of Law in St. Paul. Anthony also serves on the board of directors of the Midwest Energy Efficiency Alliance.

**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 developing and administering a wide range of utility programs. 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. She holds a master’s degree in marketing from the University of St. Thomas.

**Nick Minderman, LEED AP BD+C**, is a demand-side management (DSM) policy and strategy consultant for Xcel Energy. He leads research and program evaluation projects required for Xcel’s energy efficiency portfolio filings in Minnesota and Colorado while also supporting research and evaluation for other customer-facing demand-side management programs across five of Xcel Energy’s eight states. Prior to his current role, Nick was a DSM technical consultant at Xcel Energy and was responsible for cost effectiveness and other economic analysis for DSM programs in Minnesota and South Dakota. Nick has a bachelor’s in geotechnical engineering from the University of Minnesota, and has received master’s degrees from Rutgers University and the Royal Institute of Technology in Stockholm, Sweden.

**Will Nissen** is the program development manager of the New Commercial-Sector Energy Efficiency Programs at Center for Energy and Environment (CEE). He oversees the development of new commercial-sector energy efficiency programs and services that build upon and enhance CEE’s current portfolio. He has more than eight years of experience in the energy sector, working on energy efficiency policy and programs, rate design, and utility-scale wind and solar development.

In 2019, AIA adopted the Framework for Design Excellence, which declared an urgent imperative to reduce carbon in the built environment. Now it is 2020, so how is this playing out in day-to-day practice? Rapid-fire talks from experts around the country explore how carbon is addressed (or not) in the day-to-day operation of architecture firms.

**Waleed AlGhamdi, AIA, LEED AP BD+C**, is a sustainability enabler at EskewDumezRipple, bringing key experience from his time in the energy modeling sector at Karpman Consulting. His interests in architecture lie in the technical realm as well as the cultural. To this end, he challenges the firm’s design teams to marry the development of high performance, energy efficient buildings with considerations of vernacular architecture and the art of different cultures.
**Gwen Fuentes, AIA**, is a licensed architect and building scientist with a passion for low-carbon, human-centric design. She is an associate at Leddy Maytum Stacy Architects in San Francisco.

**Andrea Love, AIA, LEED Fellow**, is a building scientist at Payette with interests in pushing the performance and minimizing the environmental impact of her projects. She enjoys building the firm’s knowledge and intuition about sustainability through research endeavors and project explorations. Andrea works across projects to bring rigor to the performance of projects. She integrates performance modeling tools into Payette’s design process at the very beginning to inform and push designs. Additionally, she leads a number of internal research projects, and was the principal investigator on the 2012 AIA Upjohn Research Initiative-funded “Thermal Performance of Facades,” a research project focused on thermal bridging. She also leads the firm’s efforts on the AIA 2030 Commitment, tracking and benchmarking the performance of projects across the firm.

**Javier Marcano, AIA, WELL AP**, is a project architect at EskewDumezRipple. He has practiced at several levels of architecture and design, from mixed-use and multifamily residential to fabrication and consumer products. Drawn to the historical aspect of architecture as a chronicler of time and place, Javier believes that sustainability and resilience are not simply labels, but necessities of good design. He distinguishes his work by two distinct focuses: the technical aspects of architecture and a fondness for creating and making. He espouses the belief that every building can serve as an opportunity to nourish someone’s life beyond its intended use – that every building should heal. Whatever the scale, no building stands without sacrificing our ecology, so every building should attempt to breathe life back out.

**Z Smith, FAIA, LEED Fellow, WELL AP**, is principal and director of sustainability and building performance at EskewDumezRipple, winner of the 2014 AIA Firm Award. His built work includes academic, laboratory, and residential buildings earning LEED Gold and Platinum certification, and winners of the RAIC Green Building Award and the AIA COTE Top Ten. He brings training and experience in physics and engineering (with a Sc.B. in physics from MIT and a Ph.D. in electrical engineering from Princeton) to the field of architecture (M.Arch., UC Berkeley), and is named as inventor on 10 patents and author on over 50 peer-reviewed scientific publications. He serves as the North American representative to the International Union of Architects Sustainable Development Commission, has taught at the Tulane School of Architecture, and has served on the national advisory group of the AIA Committee on the Environment (COTE) and as chair of the U.S. Green Building Council Louisiana chapter. He is a member of the International Institute for Sustainable Laboratories (12SL), the Society of Building Science Educators (SBSE), and the Society for College and University Planning (SCUP).

**Corey Squire, AIA**, is an architect and advocate for sustainable design. He led sustainability efforts at two AIA Firm Award-winning firms and is currently splitting his time between Positive Energy, a human–outcome focused mechanical engineering firm, and Dept. of Sustainability, his sustainability strategy consultancy. As a member of the AIA Committee on the Environment Advisory Group, Corey is a lead author of the COTE Top Ten Toolkit, a resource that is helping to redefine design excellence for the built environment.

**Tate Walker, AIA**, will moderate this program. Tate is the director of sustainability at OPN Architects and 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, the AIA 2030 Commitment, and the USGBC’s Energy and Atmosphere Technical Advisory Group. In 2018, Tate was a lead author of the COTE Toolkit, which assembles best practices, exemplary projects, metrics, and research to support the design of beautiful, high-performing buildings. In 2019, AIA adopted the tool kit as the Framework for Design Excellence for the entire membership, to support a zero carbon, equitable, resilient future.

**Kelsey Wotila, LEED AP BD+C**, joined EskewDumezRipple as the studio’s yearlong research fellow, exploring embodied and operational carbon across a portfolio sample of projects. Her research put real world cost to ZERO Code and Architecture 2030 targets for a range of project types. She then transitioned into full-time staff, in order to apply this research and advance all projects toward a more sustainable future. Kelsey’s work results in simple guidelines for architects to understand impacts of their design decisions. She maintains that the role of architect should be as advocate, for the client, the site, and the planet, and believes it is our role as architects to blend numbers and beauty in creating sustainable spaces that people love.

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**Landscapes of Environmental and Cultural Regeneration at the Bell Museum**

**Doug Bergert, AIA, LEED AP**, is an architect and senior project designer with Perkins & Will. His design work includes a variety of award-winning cultural, education, and corporate projects. Doug is a professor in practice at the UMN School of Architecture and a member of the Bell Museum design team.

**Denise Young, Ed.D.**, serves as executive director of the Bell Museum, Minnesota’s official natural history museum located on the UMN St. Paul campus, is a model of sustainable and regenerative design – and one that teaches its 200,000 annual visitors about the connections between people and nature. Designed as a “story of Minnesota from the outside-in,” the museum’s learning landscape immediately engages visitors upon arrival through several innovative site components, such as the use of native plantings and a stormwater pond and catchment system, that enhance biodiversity while demonstrating adaptation to climate change. Taken together, innovation, technology, and materials create a living example and celebration of the power of architecture to mutually benefit people and the natural world.

**The Bell Museum**, Minnesota’s natural history museum located on the UMN St. Paul campus, is a model of sustainable and regenerative design – and one that teaches its 200,000 annual visitors about the connections between people and nature. Designed as a “story of Minnesota from the outside-in,” the museum’s learning landscape immediately engages visitors upon arrival through several innovative site components, such as the use of native plantings and a stormwater pond and catchment system, that enhance biodiversity while demonstrating adaptation to climate change. Taken together, innovation, technology, and materials create a living example and celebration of the power of architecture to mutually benefit people and the natural world.

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**Experience Level: Entry**

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**Event Descriptions**
Clean Energy Future – ASHPs and Efficient New Construction

Sponsored by Andersen Windows

Air-source heat pumps (ASHP) have improved over the last decade, and they are now an energy-efficient heating option in Minnesota. This presentation discusses Center for Energy and Environment (CEE)’s cold-climate ASHP research, including performance and capacity results, lessons learned, and experiences from over five years of detailed data monitoring from ASHP field installs in Minnesota. Real-world ASHP installation examples in single family new construction will be highlighted, plus the benefits of pairing these systems with high performance new construction techniques and certifications like Energy Star, Zero Energy Ready, and Passive House. The program will also discuss energy efficient multifamily buildings and how national certifications such as Energy Star, Zero Energy Ready, and Passive House have been adapted more effectively to apply to this sector. Details on how ASHPs can be used in multifamily buildings, as well as other technologies like aerosolized air sealing, blower door testing, and ventilation options that improve energy efficiency, and tips and lessons learned along the way will be shared through Minnesota-based case studies and multifamily field research projects.

Phil Anderson, AIA Minnesota Allied Member, joined CEE in 2015 and has over 14 years of experience working with contractors in a quality assurance capacity to ensure high-quality weatherization and new home construction. He currently manages CEE’s new homes programs, including HERS ratings, as well as the indoor air quality inspections for the Metropolitan Airports Commission Noise Mitigation Program. Phil is a certified HERS rater as well as BPI-certified quality control inspector and air leakage control installer. He also serves on the U.S. Department of Energy’s Standard Work Specification Advisory Committee, where he helps develop national installation standards for the residential energy efficiency industry.

Isaac Smith has worked at the CEE since 2011. He is currently a residential program development manager, where he develops energy efficiency program designs and oversees the implementation of pilot programs. In addition to his management experience, Isaac has a deep understanding of technical efficiency issues and serves as an advisor to the City of Minneapolis for their time-of-listing energy disclosure policy. Isaac has a B.S. in residential building science and minor in corporate environmental management from the University of Minnesota. He is also on the board and is president of the Minnesota Building Performance Association (mbpa.us).

9:45 a.m. – 10:15 a.m.

D1-6.
Virtual Exhibit Hall

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Go to page 48 to preview the Virtual Exhibit Hall layout.

10:15 a.m. – 11:45 a.m.

D1-7.
Firm Transformation: Sustainability Measures in the Drawing Set

Progress on sustainability measures are often hidden away in spreadsheets and text documents. What if they were included in the drawing set? MSR Design presents their newly developed Sustainability Measures sheet that serves as the second page of every drawing set. Measures on the sheet align with the AIA Framework for Design Excellence, and the team will discuss the process of filling in the sheet over the course of a project delivery, along with the positive and challenging implications, from the perspective of a principal, a project manager, and the design team. They will also discuss what developing this drawing has meant for the office culture and how it is propelling their practice. A template of the sheet, as well as the supporting data collection tool, will be available for download.

Phil Anderson, AIA Minnesota Allied Member, joined CEE in 2015 and has over 14 years of experience working with contractors in a quality assurance capacity to ensure high-quality weatherization and new home construction. He currently manages CEE’s new homes programs, including HERS ratings, as well as the indoor air quality inspections for the Metropolitan Airports Commission Noise Mitigation Program. Phil is a certified HERS rater as well as BPI-certified quality control inspector and air leakage control installer. He also serves on the U.S. Department of Energy’s Standard Work Specification Advisory Committee, where he helps develop national installation standards for the residential energy efficiency industry.

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Simona Fischer, AIA, is an architect and sustainability leader at MSR Design. She led the development of MSR’s publicly available material library entry criteria and staff onboarding guide, and is working on the problem of integrating sustainability into the natural workflow of architectural practice. She is the co-chair elect of AIA Minnesota Committee on the Environment.

Kate Michaud, AIA, is an architect and senior associate with MSR Design. With more than 16 years of project experience focusing on libraries and affordable housing, she believes that good design can have a positive impact on people’s lives and the environment.

Jack Poling, FAIA, is an architect and principal at MSR Design. He has spent most of his career working with public libraries across the country to create inspirational facilities and improve their communities, with particular attention to push the evolution of library service.
Superior strength

- Large window walls
- Open clear spans
- Versatile architectural elements

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- Versatile architectural elements
- Open clear spans
- Large window walls
- Superior strength
- Efficient construction process
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- Outstanding energy efficiency
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The Carbon Issue Live: Focus on Practice

1.5 LUs | HSW  Experience Level: Intermediate

This session brings the stories from the January 2020 carbon issue of ARCHITECT off the page. A high-level introduction to the charge to practice will set the stage for a panel discussion giving three different-sized firms an opportunity to offer their perspectives on reducing carbon in projects. The focus is on practice: advantages, opportunities, and challenges different-sized firms face as they adopt the 2030 Challenge targets. The program will include discussion in breakouts with a Q&A of the whole to extend learning, and will allow participants to directly engage in the material and learn from each other.

Paying for Itself: An Indigenous Net Zero School

1.5 LUs | HSW  Experience Level: Intermediate

This program will discuss work on the first net zero school built on Indigenous lands. The presentation will address the multiple certifications and related governing bodies involved in energy efficient buildings as well as the resulting energy and tax savings. The certifications require a significant level of analysis; we will review some of the tools used to do that work. Even those that don’t plan to pursue certifications for their future designs can benefit from understanding the construction methods and materials used to achieve this energy efficiency.

Give Jesse a call at: 612-499-0756
or email: jturck@bwbr.com

Design for Positive Climate Impact & Environmental Justice
U.S.A. Mike is the first member of his Tribe to become a registered architect. He is a partner at DSGW Architects and is president of the Indigenous-owned firm, First American Design Studio. Mike was the past president of the American Indian Council of Architects and Engineers and is also a board member and Sequoyah Fellow of the American Indian Science and Engineering Society. His mission in life is to promote architecture and engineering as a valid and vital STEM career for Tribal youth and to have Indigenous architecture create real change in Tribal communities.

Pat O’Neal boasts over 25 years in the fenestration industry including time as a certified service provider and installer for Andersen Windows, Renewal by Andersen. As a licensed general contractor, he also provided custom remodeling, light commercial construction, and window replacement services. Since 2015 he has been the commercial division manager for Designer Specialty Products (DSP) and specializes in daylighting design assistance for interior commercial spaces emphasizing the intangible benefits of daylight to the human body. In his role at DSP he represents the Solatube daylighting systems and Sunoptics skylights to achieve these goals for his customers. He is a member of CSI and actively sits on the membership committee.

Chad Reginar is president of Concrete, Inc. in St. Cloud. Concrete, Inc. is a commercial concrete subcontractor that has been installing ICFs since 2006. Chad and his team have built ICF projects in Minnesota, North Dakota, South Dakota, Iowa, and Wisconsin.

**D1-10.**

Low-Carbon Home: Minneapolis Straw Bale Passive

1.5 LUs | HSW | Experience Level: Intermediate

Katie and Peter are a car-free couple working in the energy sector in Minneapolis. So, when it came time to design their dream home, they knew they wanted their home to be highly energy efficient, powered entirely by on-site solar, and as low in embodied carbon as possible. This led to the decision to build a straw-bale home that also employed passive strategies and pursued PHIUS+ 2018 compliance as much as possible. The design team, owner, and builder will share the process and evolution, including lessons learned from construction in summer 2020. They will share how they minimized the use of petroleum products to the greatest extent possible, and be open about the pinch points where long-term safety and structure required alternatives. Participants will leave with an understanding of the challenges in designing with both passive house and straw-bale construction best practices, including awareness of how pursing both strategies led to a better overall building.

Katie Jones, homeowner, works as a community energy efficiency nonprofit. She is active in the community hosting her block’s National Night Out gathering, participating in City and neighborhood boards and commissions, playing lots of frisbee, and biking everywhere. She met her husband at Concordia Language Villages, site of the Waldsee BioHaus – the first certified passive house in North America.

**D1-12.**

Keynote Address: Doing the BIG Things... Together!

1.5 LUs | HSW | Experience Level: Entry

As we live and work through the crises this year has presented, we welcome new opportunities. With building sector emissions set to drop significantly this year, keeping planetary warming to 1.5°C is suddenly within our grasp. Addressing climate change also provides an opportunity to reduce long-entrenched inequalities that disproportionately affect the most vulnerable communities. Attend this keynote address and explore how we can reshape Minnesota and our world by doing the BIG things together with a shared vision during this time of crisis.
TUESDAY, OCTOBER 13

Design for Positive Climate Impact & Environmental Justice

Edward Mazria, FAIA, Hon. FRAIC, founder and CEO, Architecture 2030, is an internationally renowned architect, author, researcher, and educator. His seminal research into urbanization, climate change, sustainability, and energy in the built environment has redefined and dramatically expanded the role of architecture, planning, design, and building in reshaping our world. He is the founder and CEO of Architecture 2030, a think tank developing real-world solutions for 21st century problems.

His innovative architecture and planning projects, research, programs, and advocacy with Architecture 2030 have garnered him numerous awards including the National Council for Science and the Environment Lifetime Achievement Award, the Purpose Prize, the Mumford Award from Architects/Designers/Planners for Social Responsibility, the National Wildlife Federation National Conservation Achievement Award, the Game Changers Award from Metropolis, the American Solar Energy Society Passive Solar Pioneer and Charles Greeley Abbot awards, the World Green Building Council Chairman’s Award, and the AIA Kemper Award, to name a few. Recognized for outstanding architecture and planning work, his firm has received AIA design and design innovation awards and an American Planning Association Award.

2:00 p.m.– 2:30 p.m.

D1-13.
Virtual Exhibit Hall

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2:30 p.m.–3:45 p.m.

D1-14.
The Ethics of Environmental Justice: Architects’ Call to Action

1.25 LUs | HSW | Ethics | Experience Level: Entry

It’s time to change the climate of systemic racism and ecological destruction. Environmental justice intersects these movements – all people have a right to clean air, water, and land – yet communities of color are disproportionately impacted by climate change and exposure to environmental hazards. Design professionals are well positioned to leverage this moment toward environmental justice and are supported in doing so by the AIA Code of Conduct. This session will explore perspectives and share undertakings of two small firms to accelerate racial justice and climate action. Urban Design Perspectives (UDP) confronts racial disparities within the architecture profession for African American women by leading a week-long summer program called Camp SEE Architecture, which educates young people of color about architecture while introducing concepts of designing for environmental equity. Precipitate implements cost-effective carbon reduction strategies for affordable housing. Beyond energy efficiency, broader outcomes include healthy and comfortable interiors, reduced utility expenses, and long-term durability. Both firms strive to enact change through advocacy and public policy reform, ensuring safe and resilient homes are accessible to all, as AIA 2030 Commitment signatories committing to climate action; and by educating peers and clients on the value of designing for environmental equity.

Alicia Belton, AIA, NOMA, LEED Green Associate, has over 30 years of experience in practicing architecture. As principal of Urban Design Perspectives, she is passionate about using resources to create places of wellness for all. In working with corporations, public agencies, small businesses, and nonprofit organizations, she leads teams through all phases of design and construction with a focus on collaboration in order to achieve desired project outcomes. This often includes community engagement workshops where she facilitates programming and visioning sessions to gain consensus on project goals.

Simona Fischer, AIA, is an architect and sustainability leader at MSR Design. She led the development of MSR’s publicly available material library entry criteria and staff onboarding guide, and is working on the problem of integrating sustainability into the natural workflow of architectural practice. She is the co-chair elect of AIA Minnesota Committee on the Environment.

Jessica Holmes, Assoc. AIA’s passion for architecture comes from her desire to serve others. A Minnesota native and a lover of all things creative, she found her calling in utilizing unique skills in design and social practices to generate positive change for her surrounding communities. She received a Bachelor of Design in Architecture as well as a Master of Architecture from the University of Minnesota Twin Cities and is also a member of Alpha Kappa Alpha Sorority, Inc., a service-based organization founded on principles of sisterhood, scholarship, and service to all mankind. Jessica has been with Urban Design Perspectives for five years, where her primary roles include documentation and management of UDP’s environmental initiatives including reporting for the AIA 2030 commitment.

Janneke Schaap, Assoc. AIA, is a designer and process thinker who is sustainability-driven to create buildings that solve the built environment’s role in climate change. Her education in architecture and sustainability studies includes overlay research of LEED for Homes, GreenStar, and Passive House certification programs, and her work with pioneers of Passive House in North America built strong foundations in energy avoidance. She carries these foundations forward at Precipitate, where she applies her 11 years of residential sustainability design and consulting expertise with a focus on resource efficiency, designing for energy optimization, and using green building and passive house standards as creative design tools.
TUESDAY, OCTOBER 13

Design for Positive Climate Impact and Environmental Justice

**D1-15.**
Better Design Through Better Understanding of Embodied Carbon

Emily Lorenz, PE, LEED AP BD+C, is an independent consultant in the areas of life cycle assessment, environmental product declarations, product category rules, green building, and sustainability. She serves as an engineer in the areas of green structures and practices, energy efficiency, thermal properties, and moisture mitigation. Emily also specializes in green building code and standard work and advocacy. Emily is chair of the ASTM E60 committee on sustainability and a member of the U.S. delegation for ISO Technical Committee (TC) 59 Subcommittee (SC) 17, which includes the ISO Standard 21930 on EPDs of building products.

**D1-16.**
2IE Schools – Twenty-First Century Education/Net Zero Energy

Kalysta Davis, PE, CGD+IT, LEED Green Associate, is a licensed professional mechanical engineer with over six years of experience working on multidisciplinary teams designing mechanical systems for new construction and renovations in education, government, health care, hospitality, retail, and multiuse buildings. Kalysta has worked on projects featuring variable refrigerant flow systems including the St. Louis County Government Services Centers located in Duluth and Virginia, Minnesota. She leads post-occupancy studies for high performance buildings.

**D1-17.**
Vision to Reality: A Shining Example

Realizing the future for a safer, more efficient, and technologically advanced building today is the community vision for the St. Louis County Government Services Center (GSC) in Virginia, MN. This near-net-zero building demonstrates how lighting, mechanical loads, miscellaneous loads, and renewable energy systems make this building among the most energy efficient in the state. The installed submetering system gives the County real-time building performance information and informs building operations. Learn how each of the technologies implemented affects the building performance, join in a deeper dive into the story the performance numbers can tell us, and compare design calculations with metered performance and learn causes for deviation. The data validates the reality for the St. Louis County GSC vision that, through investing in design and technology, they are achieving a positive impact on safety and the environment for the community today and in the future.
**TUESDAY, OCTOBER 13**

**Design for Positive Climate Impact and Environmental Justice**

**Daniel J. Fox, PE, CEM, LEED AP+C**, is a licensed mechanical, plumbing, and fire protection engineer with over 17 years of experience leading GM’s Mechanical Engineering Department. He relies on science to inform design, utilizing his engineering expertise and sustainable design knowledge. He has designed engineering systems for many B3 buildings for the State of Minnesota, over 40 LEED-certified buildings, and a number of net zero energy projects. Dan prides himself on serving clients by using technologies that are practical, constructible, and sustainable.

**Scott Haedke** is a senior electrical project manager with 30 years of experience working on federal, state, county, and municipal government projects as well as education, institutional, health care, commercial, industrial, and residential buildings. He is responsible for electrical design, lighting design, and low voltage projects.

**3:45 p.m. – 4:00 p.m.**

**D1-18.**
Sponsored Break: Live Chat with Kline Johnson

**4:00 p.m. – 5:00 p.m.**

**D1-19.**
The Culture Change Imperative: How We Can Create the Culture the Profession Wants and Needs

1.0 LU Experience Level: Entry

This session is the first major outcome of the AIA Minnesota Culture Change Initiative (CCI), launched in January 2019, which has involved more than 70 members throughout Minnesota. It is an effort to transform the culture of the profession by examining the current state, defining the culture to which we aspire, and taking a systems-thinking approach to determining the actions that hold the most promise in creating change. Members of the Culture Change Planning team (AIA Minnesota staff and volunteer leaders) will share insights gained from dozens of conversations with members of Minnesota’s architecture community, analysis of leverage points in the system, core tenets of the desired culture, and transformative questions. Attendees will be asked to inform next steps in moving this work forward, helping it take root in firms, schools of architecture, and in the broader culture of the profession.

**PaviElle French** is the circulation director and equity, youth outreach, and operations coordinator at AIA Minnesota. She is a co-staffer of both the Equity, Diversity, and Inclusion and Architecture in the Schools committees and works closely with the CCI Planning Team.
TUESDAY, OCTOBER 13
Design for Positive Climate Impact and Environmental Justice

Team. She is also an interdisciplinary artist and composer hailing from Rondo, a historically Black neighborhood in St. Paul. She is an Emmy Award winner, Sage Award for Dance winner, American Composers Forum Grant recipient and also a McKnight Award Fellow.

Emilie Kopp, Assoc. AIA, has professional experience with a wide range of project types, including cultural and civic spaces, office environments, and affordable housing. She finds inspiration in the iterative design process and integrating user experience, program, and site. A natural storyteller, Emilie explores narrative in design to create meaning and engaging connections for the people who occupy and inhabit the spaces she designs. Emilie holds a Master of Architecture from the University of Minnesota and a Bachelor of Science in Design from the University of Nebraska.

Mary-Margaret Zindren, CAE, serves as executive vice president/executive director of AIA Minnesota, AIA Minneapolis, AIA Northern Minnesota, AIA St. Paul, and the Minnesota Architectural Foundation. Prior to 2015, Mary-Margaret served as executive director of the Hennepin County Bar Association, and held executive positions at the League of Minnesota Cities and the National League of Cities. Mary-Margaret is a Certified Association Executive (CAE) and holds a B.A. in public administration from Miami University and an M.P.A. in public and nonprofit leadership from the University of Minnesota. She serves on the AIA Equity and Future of Architecture Committee, is vice president-elect of the Council of Architectural Component Executives (CACE), and received the CACE Emerging Leader award in 2018.

DI-20.
Habitecture: How Architects Can Save Species Through Design
Experience Level: Entry

Globally, the extinction rate of species is accelerating as human development expands. With the loss of species, we reduce biodiversity, degrade ecosystem services, and diminish humanity’s intrinsic connection to nature. The primary driver of this depletion is habitat destruction through land development, of which architects play a major part through our role in building construction. Habitecture is the design of habitat for non-human species and integration of this habitat into structures designed for humans. Habitecture offers a novel approach to finding our lost relationship with, and responsibility to, natural ecology and biodiversity. Through this presentation we will investigate these questions: How can architects save Earth’s species through habitecture? How does this influence our designs? What can we do today to help species in our own backyards?

Joyce Hwang, AIA, is associate professor and associate chair of architecture at the University at Buffalo, State University of New York, and the founder of Arts of the Prairie, an office of architectural practice and research that focuses on confronting contemporary ecological conditions through creative means. She is a recipient of the Architectural League Emerging Voices Award, the New York Foundation for the Arts Fellowship, and the MacDowell Colony Fellowship. Hwang received a Master of Architecture from Princeton University and a Bachelor of Architecture from Cornell University, where she was awarded the Charles Goodwin Sands Memorial Bronze Medal. Hwang is a registered architect in New York State, and has practiced professionally with offices in New York, Philadelphia, San Francisco, and Barcelona.

Mike Refsland, AIA, is a project architect with DLR Group in Minneapolis. Throughout his career, he has searched for synergies between two subjects seemingly at odds with one another: abiotic architecture and natural ecology. A graduate with a dual master’s in architecture and sustainable design from the University of Minnesota, his architecture thesis revolved around ecological interventions in existing suburban developments. He has served as sustainability director at multiple firms and co-chair for the AIA Minnesota Committee on the Environment. Mike is passionate about ecology and architecture, and seeks ways to regenerate Earth’s biodiversity through design interventions at scales from backyard bee houses to campus master planning.

DI-21.
Minnesota Sustainable Building Guidelines: Impacting the Human Experience on the UMN Campus
Experience Level: Intermediate

Join us for a discussion of the ways Minnesota’s sustainable building guidelines, specifically Indoor Environmental Quality (IEQ), impact building performance at the University, and how the post-occupancy evaluations (POE) measure occupants’ satisfaction. The presenters will explain how sustainability initiatives are implemented on a campus level and how facilities are evaluated to demonstrate measurable user outcomes derived from the sustainable design initiatives. Presenters will also discuss the importance of establishing a system of post-occupancy evaluation to equip design practitioners with data-driven criteria, enabling them to design the most user-friendly environments.

Dr. Abimbola Asojo, AIA, IDEC, LEED AP, NCIDQ, is the associate dean for research, creative scholarship, and engagement and a professor in the UMN Department of Design, Housing and Apparel at the College of Design. Her teaching areas are lighting design; architecture design and human factors; computing and design; corporate design; and commercial design. Her research areas include cross-cultural design, African architecture, globalization and design, sustainability, and post-occupancy evaluation. She serves on the Journal of Interior Design (JID) review board and the Illuminating Engineering Society (IES) Minneapolis–St. Paul board.

Amanda Aspengren, AIA, LEED AP BD+C, is the design project manager for the University of Minnesota Capital Project Management (CPM), responsible for managing system-wide campus architecture and interiors and working inclusively with internal and external project teams. CPM Design advocates for a University-centered point of view toward campus design, integrating need, budget, and architectural quality. Amanda has also worked to strengthen the University’s commitment to sustainability by leading the B3/SB2030 process within CPM. Co-founder of the current AIA Minnesota Women in Architecture Committee, her commitment to the profession comes from a place of personal engagement and a deep respect for diverse perspectives.
**D1-22.**

**EV Capable or EV Ready: How to Approach EV Charging**

1.0 LU  
HSW  
Experience Level: Intermediate

Our electric grid is becoming cleaner at an accelerating pace because Minnesota utilities are closing coal plants and transitioning to renewable energy. This provides an opportunity to drastically reduce our transportation energy consumption, air pollution, and climate gas emissions by shifting to electric vehicles (EVs). Most EV charging happens overnight at home, so all residential properties, including apartment buildings and condominiums, will need to get EV ready. Every new parking spot doesn’t necessarily need to have a charging station, but charging infrastructure installations will be much more affordable if properties have business resilient, future-proof designs. In January, the International Code Council (ICC) approved a new provision that includes EV-readiness language, and other, similar local codes are added all the time. There is also a 30 percent federal tax credit available for EV-charging infrastructure installations, and here in Minnesota, Xcel Energy has recently provided several new EV-charging programs for single family homes and multiunit dwellings. In this workshop, we will talk about how this market is moving forward, how EV owners use and charge their vehicles safely, and how architects and developers can incorporate EV-charging infrastructure readiness into new construction and remodeling projects.

Anna Pravinata, AIA, LEED AP BD+C, principal at Alliante, has dedicated much of her professional career to designing leading-edge research facilities for both corporate and academic institutions. Her passion stems from her deep admiration for researchers whose work fosters discoveries to tackle today’s challenges, from cancer and heart disease research to leading-edge robotics. Anna utilizes her strengths in comprehensive planning, client communication, and design and construction team management to translate clients’ needs into exceptional research environments. As part of the AIA Minnesota Board of Directors, Anna advocates for inclusive culture in the architectural profession.

**D1-23.**

**Networking Social**

5:00 p.m.–6:00 p.m.

**D2-24.**

**Welcome and Convening Remarks**

8:00 a.m.–8:15 a.m.

**D2-25.**

**Beyond Engagement: What Community Visioning Processes Should Be**

1.5 LUs  
Experience Level: Entry

Standard community engagement processes often fall short of what is needed for deep, broad, equitable and inclusive community visioning processes that build community power and lead to realization of the community’s vision. It has never been a more important time to further the best of what the built environment can be, which starts with furthering the best of what community visioning can be. Learn from this amazing panel of architects, designers, community leaders, artists, and advocates who will share insights from their past work, as well as where they see bright spots of inspiration and innovation from Minnesota and beyond.

Paul D. Bauknight Jr., is a design activist, urbanist, and community leader. He has worked for 30 years in community-based design and development. He is passionately committed to working at the intersection of physical, social/cultural, and economic systems to create solutions that are steeped in place, sustainable, and beneficial to the community. The first project implementation director for the Minneapolis Parks Foundation, he defined the role to lead where philanthropy intersects with community and the public realm. His Center for Transformative Urban Design is focused on design justice. He is a graduate of Virginia Tech.

Roger Cummings, chief cultural producer, Juxtaposition Arts, activates relationships between space and place through art, design, independent livelihood, and collective social enterprise. Cummings’ work acknowledges, while at the same time, progresses the direction of urban visual expression. Urban architecture, design, and planning inform his work. In close examination of these influences, his work has taken the form of large-scale sculptures, pocket parks, and functional enhancements to public space. In placing his work at the center of a critical dialogue, where art becomes a vehicle through which cooperative models of community engagement encourage social
interactions in public space, his choice of materials has evolved, exploring the mixing of accessible materials like aerosol paint with steel, stone and other materials to create three-dimensional multimedia biomorphic structures that reference Hip Hop, urban design, and sustainability.

Nathan Johnson, AIA, NOMA, has led 4RM•ULA's design efforts on some of the most significant transit architecture in the Twin Cities including the Green Line LRT's 18 stations, including Target Field Station. Nathan is very active in the community. He serves on the boards of Forecast Public Art and Redeemer Center for Life. Nathan teaches architectural technology at Minneapolis Community and Technical College, is a LEED Accredited Professional, received the AIA Minnesota Young Architect Award in 2009, and was the first African American to serve as AIA Minnesota President.

Damaris Hollingsworth, AIA, NOMA, NCARB, LEED AP, is a TEDx speaker and inclusive architectural thought leader who creates sustainable places and spaces that remain relevant through the shifts of demographics and economics. Damaris has an architectural and urban planning degree from the Faculdade de Arquitetura & Urbanismo at University of Sao Paulo, Brazil. Having moved to the U.S. in 2006, Damaris has since become a registered architect, a LEED-accredited professional, and holds an NCARB certificate. Damaris’s dynamic and engaging personality combined with her global and multicultural background enables her to connect with people from all walks of life. Her approachability makes people feel relevant and the outcome of her work makes it clear that all voices matter.

Tabitha Montgomery is passionate about serving people. She is currently the executive director of the Powderhorn Park Neighborhood Association (PPNA) where she and the staff proactively look for creative ways to advance its advocacy, events, and programs in community. Tabitha has spent more than twenty years tapping into her gifts of management, communication, and visioning to serve a wide array of people, businesses, and organizations.

Joo Hee Pomplun is executive director of Alliance for Metropolitan Stability (The Alliance), a coalition of community-based organizations building shared power to advance campaigns around the intersections of racial justice, economic justice, environmental justice, and health equity. With a diverse background in community organizing, public health, small business, bodywork, and public policy, Joo Hee’s strengths and interests are in the intersection of community development, racial equity, and healing justice. Joo Hee has a bachelor’s degree in women’s studies, a master’s degree in public health, and is a certified massage therapist.

Jennifer Vanica is a 40-year veteran in philanthropy and community change. In an effort to change how foundations interact with disinvested communities, she began working alongside more than 3,000 community residents in southeastern San Diego to transform blighted, abandoned industrial sites into a pioneering community-owned neighborhood revitalization project that received ULI’s Social Equity Award. Jennifer has served as a senior fellow at both PolicyLink and the Aspen Institute, and is the author of Courageous Philanthropy: Going Public in a Closely Held World, a book about the power and possibility of achieving a shift in the fundamental long-term control over decisions and assets through the resident ownership of neighborhood change.

D2-26.

Networking Breakfast with Women in Architecture

1.5 LUs  Experience Level: Entry

Come to the table and join the conversation with resilient women architects in Minnesota. At this virtual networking session, attendees will break out into small groups and discuss inclusive design practices. Each conversation will include a discussion leader and volunteer moderator from the AIA Minnesota Women in Architecture Committee. Join these discussion leaders in a valuable conversation about professional practice and the challenges architects face when creating an inclusive professional practice. Consider the status and strategies of office culture to cultivate increasing diversity in the profession of architecture. Discuss the realities and consequences of recent protests on clients and project teams. Talk about supporting and elevating traditionally marginalized communities within our profession, client base, and services. Men are welcome and encouraged to attend this session because the change proposed by the topics discussed require everyone’s contribution.

Patri Acevedo, AIA, NOMA, brings over 20 years of international design expertise, cultural sensitivity, and a wild and wonderful wit to her role as the head of JLG Architects’ Rapid City office. Born and raised in San Juan, Puerto Rico, Patri resided in New York, Florida, and Texas before making the Black Hills her home. An engaged and passionate civic leader, Patri is the immediate past president of AIA South Dakota and serves as an at-large member in the AIA National Strategic Council where she is a co-convener in the rural agenda study area. Patri is a Creative Communities Leadership Institute 2015 Fellow.

Alicia Bellon, AIA, NOMA, LEED Green Associate, has over 30 years of experience in practicing architecture. As principal of Urban Design Perspectives, she is passionate about using resources to create places of wellness for all. In working with corporations, public agencies, small businesses, and nonprofit organizations, she leads teams through all phases of design and construction with a focus on collaboration in order to achieve desired project outcomes. This often includes community engagement workshops where she facilitates programming and visioning sessions to gain consensus on project goals.

Janine Glaeser, AIA, is a licensed architect currently working as an architect/urban planner for the City of Madison, Wisconsin. She holds a Master of Architecture degree from the University of Wisconsin, Milwaukee—School of Architecture and Urban Planning. Janine is currently the vice-chair of the AIA National Disaster Assistance Committee, a Cal OES–certified Safety Assessment Program (SAP) trainer, and an AIA Wisconsin state disaster assistance coordinator. She has worked on disaster response, recovery, and resilience projects with NGOs in Haiti, El Salvador, Nepal, and the United States, including in her role as the disaster assistance field coordinator working with Wisconsin Emergency Management (WEM) during the 2018 Dane County flooding events.

Jennifer Kretschmer, AIA, LEED Green Associate, founded J. Kretschmer Architect in 2003. Her firm has been a virtual office since 2008. Jennifer was a speaker...
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at the A'19 Conference on Architecture and the 2019 CRAN Symposium on the subject of the virtual office for architects. Winner of the 2002 AIA National Associate Member of the Year, she is the founding and current CRAN chairperson of AIA Silicon Valley (AIA SVC) and is the 2020 AIA SVC vice president.

Vivian Lee, FAIA, LEED AP, is the New York studio executive director at Woods Bagot. Her extraordinary pedigree as a designer and leader serves to elevate the studio culture, while her mission to foster sustainability enriches the environment. Vivian’s diverse, global background has granted her a unique perspective in achieving design excellence and delivering dynamic places and spaces that enhance the human experience. She is the co-chair of the AIA New York Women in Architecture Committee, where she mentors young architects and promotes women in leadership and design roles. Vivian received her Bachelor of Architecture from Cal Poly San Luis Obispo and a Summa Cum Laude Master of Architecture from Syracuse University in Florence, Italy.

Robin Randall, AIA, directs the national K-12 education practice at Legat Architects. Robin is an educational design expert with 33 years’ experience programming, planning, and creating learning places. A frequent speaker, author, and award-winning designer, she is inspired by learning strategies and environmental research through application in projects. Her leadership in a client-focused process integrates the science of learning, the language of nature, and the art of innovation to create customized environments for all learners.

Yiselle Santos Rivera, AIA, NOMA, LSSYB, WELL AP, LEED AP, is a medical planner and the firmwide director of justice, equity, diversity, & inclusion at HKS, Inc. Yiselle currently serves as the AIA National Board Associate Representative, the AIA DC Chapter Board Secretary, and advisor to the DC NOMA Board. She is a member of the AIA Equity and the Future of Architecture Board Committee, the New Urban Agenda Taskforce, and the AIA COVID-19 Health Impact Taskforce. She is co-founder of the Latin American Interior Designers, Engineers, and Architects (LA.IDEA) DC Committee, immediate past-Chair of the AIA DC Equity Committee, and founder of “Women Inspiring Emerging Leaders in Design” (WIELD) event, recipient of the 2019 AIA Diversity Program Recognition Award. Yiselle is an author, storyteller, and recipient of the 2018 AIA Associate Award.

Carole Wedge, FAIA, is the CEO of Shepley Bulfinch, where she has led the firm’s evolution and growth into an innovative organization with an open and diverse culture. Throughout her career in architecture and advocacy in the wider community, she has sought to challenge conventions and incite organizations to become more transparent and diverse. Carole’s dynamic and collaborative leadership has powerfully impacted cornerstone institutions, from higher education and civic organizations to the architectural industry. Since 2017, she has served as the chair of AIA’s Large Firm Round Table, a committee of the 60 largest firms in the country.
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**Korey White, AIA**, is driven by her zest for the built environment, bringing open-mindedness and creativity to her role as an architect and planner. Korey is always up for a challenge, using her unique skill set to help solve social issues by advocating for how architecture can support healthy, accessible communities. Korey applies her dual master’s degrees in architecture and urban and regional planning from the University of Colorado Denver to an interdisciplinary approach that creates meaningful outcomes for her clients and the community. She currently works for DLR Group in the Chicago K-12 studio. Recently selected as a Forte Fellow, Korey is starting a part-time MBA program at the University of Illinois with a focus on global challenges in business and entrepreneurship and strategic innovation.

**Jennifer Yoos, FAIA**, is professor and head of the School of Architecture at the University of Minnesota and principal and president of VJAA. VJAA has received significant design recognition, winning 22 national awards, including the 2012 AIA Firm Award. Jennifer was educated at the Architectural Association in London and the University of Minnesota, and was awarded a Loeb Fellowship at Harvard University’s Graduate School of Design. Jennifer has taught at Cooper Union in New York City and Washington University in St. Louis. She is co-author, with partner Vincent James, of their recent book *Parallel Cities: The Multilevel Metropolis*.

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**D2-27.**

**Overcome the Overwhelm**

1.5 LUs  
Experience Level: Entry

Many people are feeling out of sorts as a result of the uncertainty we are currently facing. Things continue to change, including what we do and how we do it. Feeling overwhelmed is normal. What we need is the answer to this question: How do we become and stay resilient in the face of stress and uncertainty? This workshop provides some answers to that question by exploring how the brain works when it is in overwhelmed mode, the importance of communication, and how to create momentum that feeds motivation.

**Jeannette Grace**, owner of Expressive! Communication Consulting & Training, is a communication and training and development expert. She works with clients to uncover communication issues and develops training solutions to remove roadblocks that get in the way of organizational, team, and individual success. Some of her clients include Kraus Anderson Construction, Minnesota Construction Association, Bethel University, Normandale Community College, and Federal Reserve Bank of Minneapolis.

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**D2-28.**

**Pragmatism, Agility, and Well-Being: Business and Personal Resiliency for Leadership in a Dynamic Time and Practice**

Sponsored by [Dunham](#)

1.5 LUs  
Experience Level: Entry

This program, led by a cross section of local firm leaders, will discuss how they were managing their practice before the pandemic, how it changed during the pandemic, and their thoughts on what may come after COVID-19. On a more personal note, firm leaders will share their stories of their quests for personal resiliency and well-being that were necessary to lead their practices and their teams.

**Michelle Mongeon Allen, AIA**, is the CEO of JLG Architects and past president of AIA Minnesota. Michelle charted JLG’s growth from a closely held partnership to a 100 percent employee-owned, nationally recognized design firm – including one of MSN Money’s 50 Most Admired Companies in the US, one of Inc.’s 50 Best Places to Work in America, and the 2019 Engineering News-Record Mountain States Design Firm of the Year.

**Rick Carter, FAIA, LEED Fellow**, brings more than 38 years of experience to his role as chief executive officer of LHB. Rick works extensively on design for efficient resource use and occupant well-being, leading efforts for LHB to be visible experts in regenerative design and research. His projects range from the building to regional scales with the goal of contributing to achieving Minnesota’s greenhouse gas emission reduction goals. Rick helped develop the Hennepin County/Minnesota Sustainable Design Guidelines and currently co-manages the Buildings, Benchmarks and Beyond (B3) Project, including execution of sustainable guidelines for the State of Minnesota. His current projects include the ongoing development of the Regional Indicators Initiative, large-scale efforts created by LHB to provide data and tools for Minnesota local government energy and climate action.

**Tim Dufault, FAIA, LEED AP**, is the CEO of Cunningham Group Architecture, Inc. Tim is responsible for the overall direction of the firm and is dedicated to the goal of helping professionals collaborate to create the best possible community environments. Tim helps lead the 52-year-old firm toward its strategic goals while promoting an approach to the business and practice of architecture, interior design, and planning that seeks to “Uplift the Human Experience.”

**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 of the Council of Firms Knowledge Community.

**Scott R. Neal, AIA**, is a principal and a design director at Wendel. Scott’s primary responsibilities include fulfilling design leadership roles on projects across the country in which he is intimately involved in project development from kick-off meetings through construction. Scott has a history of empowering...
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D2-29. Design and Construction for Mental Health Post-Pandemic
Sponsored by Kraus-Anderson

This panel will discuss the needs and challenges of mental health care post-pandemic, and the history of mental health care in Minnesota. Panelists will provide a case study of the design of the Regions Hospital Mental Health Building and describe human-centered safety, including real-world examples. They will also review the Allina Mental Health Guidelines development process and explore the Allina Mental Health Guideline in practice.

Mary Shaffer, AIA, brings her broad experience in architectural leadership and project management to her role as architecture department manager at Mead & Hunt. Her architectural experience includes traditional architecture practice and project management on the consultant and owner side. She has a passion for mentoring students of all ages about the industry. Mary is engaged in multiple volunteer endeavors, including serving as secretary of the AIA Minnesota Board, co-chair of the AIA Minnesota Equity, Diversity, and Inclusion Committee, past co-chair of the AIA Minnesota Council of Firms, mentor with the University of Minnesota mentor program, and industry advisor for the annual BD+C Women in Design + Construction Conference.

Steven Schmidgall is a project manager for Allina Health and developed the Allina Mental Health Facility Guidelines. During his career, he managed construction of a $37 million, 115,000-square-foot mental health building at Regions Hospital with 100 private patient rooms and the latest in-patient safety detailing and equipment. Steven has also completed construction contract administration for $750 million worth of health care, civic, educational, and commercial building projects with multiple architecture firms, and represented the owner in completing the Marshall, a $62 million mixed-use development in Dinkytown. He has a Bachelor of Environmental Design and a Master of Business Administration from the University of Minnesota.

9:45 a.m. – 10:15 a.m.

D2-30. Virtual Exhibit Hall

The Minnesota Conference on Architecture would not be the same without our valued partners. At the virtual exhibit hall, you can access the latest information on products and services and make contact for more information.

When you click on a virtual Exhibit Hall booth, you will find new product information, product photos, product videos, and contact information. Each exhibitor will be reachable with an email link for more information or to set an appointment.

Go to page 48 to preview the Virtual Exhibit Hall layout.

10:15 a.m. – 11:45 a.m.

D2-31. Firm Capacity Building Through Authentic, Collaborative Partnerships
Sponsored by Shingobee

Partnerships among firms – particularly among Minority Business Enterprise (MBE)/BIPOC-owned firms and white-owned firms – are often not as successful as either party wants them to be. This is especially true when firms are connected only in the context of response to an RFP and when the first project together is viewed as a "test." This session highlights bright spots in working relationships among firms in the AEC industry. Panelists will share how their partnerships have developed and insights gained from challenges faced in their working relationships. They will...
explore the importance of recognizing the strength of each other’s existing capacities, commitment to mutual capacity building, and equitable engagement in the work of the project.

**Alicia Belton, AIA, NOMA, LEED Green Associate**, has over 30 years of experience in practicing architecture. As principal of Urban Design Perspectives, she is passionate about using resources to create places of wellness for all. In working with corporations, public agencies, small businesses, and nonprofit organizations, she leads teams through all phases of design and construction with a focus on collaboration in order to achieve desired project outcomes. This often includes community engagement workshops where she facilitates programming and visioning sessions to gain consensus on project goals.

**Patrick Buckner** is the president-owner of Molron Builders Inc. He has a solid understanding of the construction industry, having over 40 years of management and field knowledge experience, and he’s a vested union member. Patrick has witnessed the evolution of construction and led his company through the challenges of sustaining his minority-owned firm for decades. Patrick’s mission has always been to build relationships that strengthen communities. In doing so he has created space for growth and collaborative connections. He serves as director of business development and construction operations.

**Rick Carter, FAIA, LEED Fellow**, brings more than 38 years of experience to his role as chief executive officer of LHB. Rick works extensively on design for efficient resource use and occupant well-being, leading efforts for LHB to be visible experts in regenerative design and research. His projects range from the building to regional scales with the goal of contributing to achieving Minnesota’s greenhouse gas emission reduction goals. Rick helped develop the Hennepin County/Minnesota Sustainable Design Guidelines and currently co-manages the Buildings, Benchmarks and Beyond (B3) Project, including execution of sustainable guidelines for the State of Minnesota. His current projects include the ongoing development of the Regional Indicators Initiative, large-scale efforts created by LHB to provide data and tools for Minnesota local government energy and climate action.

**Jamil Ford** partner, Mobilize Design & Architecture, is a nationally recognized designer and developer that is focused on changing the urban environment through great design. Jamil has 20 years of architecture, design, and planning experience. His passion is working beyond bricks and mortar; he enjoys the interaction of people through architecture with the emphasis on how great design can solve all classes and communities. He is heavily involved in a number of community organizations and has a passion for solving community concerns and addressing individuals that don’t have many resources or access to information.

**Paul Meyer, PE**, has over 30 years’ experience working on both sides of the construction industry. As CEO of Woodstone, Inc., Paul oversees the strategic direction of the organization and collaborates with the president, CFO, and board to define and articulate the organization’s vision and to develop strategies for achieving that vision. Paul is part of major financial, personnel, and marketing decisions.

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Paola Sánchez-Garrett, Arq. (CODIA), Assoc. AIA, NOMA, is a registered architect in the Dominican Republic with a master’s degree in urban planning and municipal management, both titles obtained from the Pontificia Universidad Católica Madre y Maestra (PUCMM) in Santiago. Paola moved to the Twin Cities in 2012 and started working at 4RM+ULA in 2014. Paola was a professor of urban planning in the school of Architecture at PUCMM, and taught Advanced Inclusive Professional Practice at the University of Minnesota in 2020. Paola will serve as moderator for this session.

Nicole Thompson, ALA, is president and CEO of Station 19 Architects in Minneapolis. She has a bachelor’s in interior design (University of Wisconsin Madison) and a master’s in architecture (University of Maryland College Park). With over 20 years of experience at Station 19 as a project architect, she listens to, guides, and collaborates with nonprofit ministries to create facilities that uniquely reflect their vision and mission to the community.

**D2-32. Resilient Culture: Weather the Storm**

Weather the storm of economic, social, and environmental challenges with a resilient team culture. In this interactive workshop, discuss how to actively shape your firm’s culture to sustain your professional practice. Learn to listen to your team’s values, assess your own beliefs, develop methods of accountability, and track progress toward your goals so you can leverage your team and career to weather any storm. Learn about methods for inviting individuals at every level to positively contribute to your firm’s culture to improve diversity, collaboration, and employee retention. Tackle the long-term impact of remote work on architectural teams and collaboration. Discuss opportunities and mentorship that encourage diversity. Learn innovative strategies that can leverage your firm for future economic challenges.

Nickisha Benjamin, AIA, grew up in small-town Wisconsin and developed an obsession for the built environment from a young age. Earning a B.Arch from Pratt Institute in Brooklyn on the coattails of the recession, Nicki’s passion for creating meaningful space was met with the challenge of persevering through the downturn. Ultimately achieving licensure while juggling a young family, Nicki enjoys encouraging others to challenge their own thinking to better themselves and the profession. Nicki’s dry humor and critical questions can be found at AIA Minnesota Emerging Professionals Committee meetings, in her Sunday School classroom, and as she encourages other moms in her local running group.

Molly Ellis, AIA, grew up in small-town Texas and went to University of Houston for her professional degree and then University of Minnesota for a Master of Science in sustainable design. Recently licensed, she currently works for Metro Transit as a part of the Metropolitan Council as a project manager and architect. Her public service includes co-chair of the AIA Minnesota Emerging Professionals Committee, board member of the Community Environmental Advisory Commission under the Minneapolis City Council, and vice-chair of the Stevens Square Community Organization.
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Katie Kangas, AIA, founded Pasque Architecture in March 2020 to provide story-centered architecture and design. Katie is building a process-centered practice to provide simple functional design that is beautiful and inspires. As the 2019–2020 Young Architect’s Regional Director for the North Central States Region, she works to connect emerging architects with the resources they need to thrive in the architectural profession and beyond. Growing up in a small town, Katie saw how active individuals could shape their community. She eagerly gives her time and talents to her church, AIA Young Architects Forum (YAF)’s Connection, and AIA committees to be a catalyst for meaningful conversations and stronger relationships.

D2-33.
Well-being, Trauma, and Resilience: The Science of Thriving
Sponsored by All Seasons Fireplace
1.5 LUs | Experience Level: Entry

COVID-19 has created a state of collective trauma. How does this trauma impact our brains and our ability to do our best work? Based on a literature review of positive psychology research – the science of human thriving – presenters will demonstrate what the science of trauma, well-being, and personal resilience can teach us about working in a global pandemic. Researchers have long associated happiness and well-being with productivity in the workplace, but how can we foster happiness and well-being in the global workforce in this time of collective trauma? While we adjust to a new normal, our ability to remain productive at work and maintain positive relationships with our colleagues and clients depends on our adaptability and personal resilience. Attendees will leave this session with a deep understanding of what happens to their brains and work output due to traumatic events or stress and evidence-based strategies for enhancing personal resilience and fostering thriving working relationships. The research presented will prove that thriving at work is possible even in the most challenging circumstances.

Ariane Laxo, CID, IIDA, LEED AP ID+C, EDAC, is sustainability director at HGA, based in Minneapolis. Ariane leads with an evidence-based, collaborative approach to sustainable design that results in transformational impacts. With a background in interior design, Ariane blends human-centered design with sustainability so that client outcomes rely on reliable evidence to improve both the occupant experience and building performance. She holds a certificate in positive psychology from the Wholebeing Institute.

Haley Nelson, ASID, IIDA, LEED AP, WELL AP, is a senior associate and senior interior designer in the Los Angeles office of HGA. Haley’s expertise is in workplace design with solutions that explore the connection between human experiences and architecture. Many of her projects have achieved the highest levels of LEED or WELL certification, been published, and won design and sustainability awards. Haley is a thought leader and has presented in numerous venues on how design can positively impact people.
Hybrid Winning AEC Interviews – Live, Virtual, and Interactive

Experience Level: Intermediate

Winning AEC Interviews (with live and virtual editions), principal, Dean Lincoln Hyers, co-author of Winning AEC Interviews (live and virtual editions), co-founded SagePresence to help AEC firms rise to the challenge of communicating differentiated value as they develop business, and represent their firms. Dean coached over $5 billion in competitive project wins including the construction interview for U.S. Bank Stadium. Drawing on a diverse storytelling background, including film and advertising, acting instruction to U.S. covert agents, and courtroom experience, Dean has cultivated an expertise in influential communication under pressure.

Ashley Ochiagha, NCIDQ, is an interior designer at HGA where she works on arts, cultural and corporate project types. She engages users with an inclusive design process that centers equity and wellness. As a first generation American and one of the few Black interior designers in the state of Minnesota, she is passionate about reshaping the design industry to promote racial equity in the built environment. Ashley is owner and founder of FMYH, a collective dedicated to providing support for creatives.

Lori Tuominen is the program manager for the Pruitt Center for Mindfulness and Well-Being at the University of Wisconsin–Superior. She is a credentialed coach with the International Coach Federation, has taught college courses on positive psychology and “Foundations of Positive Organization Development and Change,” and is a qualified teacher of Mindfulness-Based Stress Reduction (MBSR). She has also published a children’s picture book called Ways to Be from A to Z, which is about positive ways of being.

Facing the Shortlist Presentation was hard enough already, but the advent of the virtual interview has made it that much worse, distancing us from our prospect, separating us from our team, and essentially making us “on-camera talent.” Just as we’re adjusting to the two-second delay (and with it, the choice to either hold back or potentially stop on another speaker), we’re now facing the hybrid, where live and remote participants combine, while wrangling the issues of social distancing, creating a whole new venue, and answering scores of questions. This session sets to answer your questions with a unique set of perspectives from a 20-year veteran of AEC interview coaching who happens to be a former filmmaker. Dean Hyers of SagePresence – a highly interactive Q&A-driven speaker – bridges the gap between live, virtual, and interactive media with presentation, conversation, and simple group activities to explore:

- What does it take to make a warm connection in each format?
- How does messaging, point-making, and elaboration change across the formats?
- Why is “team synergy” a completely different game virtually than live?
- When do the rules of “screen presence” differ from “stage presence”?
- Where is the future of interview venues is likely to take us?

When pursuing carbon neutrality for a new affordable housing development, what’s the best approach? More solar panels? A ground source heat pump system? Or an improved passive building envelope? These were the questions posed by Community Action Center of Northfield (CAC) as they committed to pursuing net zero energy for their new 17-unit development to provide stable housing for low-income families and additional support to alleviate homelessness. CAC recognizes that climate change will disproportionately affect the same low-income families CAC aims to support. Achieving net zero will both lessen the impact on the environment and reduce operating costs of units over time compared to traditional construction standards. The consultant project team will share the results of their study, which compared three scenarios and examined achieving net zero energy through PHIUS+ 2018 certification compared to standard construction with additional renewable energy. The team worked collaboratively with owners, community members, design team, and contractors to model the proposed designs in WUFI Passive and communicate best practices for design and construction with project stakeholders.

Daniel Handeen, Assoc. AIA, is a research fellow at the Center for Sustainable Building Research (CSBR) who focuses on researching, advancing, and teaching about healthy, durable, environmentally sound building materials and methods to professionals and laypeople. Past work includes development of the 21st Century Development matrix in partnership with AIA Minnesota; high-performance panelized residential wall assembly research for the Department of Energy; development of the Athena EcoCalculator to calculate the environmental impacts of common building assemblies; development of concept, graphics, video, and 3D instructional exhibits for the Bell Museum’s Sustainable Shelters exhibit; graphic and animation work for the Building America Foundations Best Practices Handbook; design and project management of the Minnesota Department of Commerce New Construction exhibit for the 2014–2016 Minnesota State Fairs; Passive House market research for the University of Minnesota; and sustainable design assistance for communities throughout greater Minnesota. He also teaches building systems and ethics-related classes in the UMN architecture program.

Rolf Jacobsen, CPHC, is a research fellow and CPHC at the Center for Sustainable Building Research. Through the Fulbright program, Rolf conducted research in Norway on the building science of Passive House envelopes optimized for cold climates. While there, he used energy and moisture modeling tools such as WUFI and THERM to investigate and evaluate a wide range of residential building assemblies. More recently, Rolf helped the NorthernSTAR Building America team conduct research on a variety of topics including an in-situ study of residential ground source heat pumps, innovative panelized construction systems, above- and below-ground wall insulation retrofits, and innovative “thin triple” glazed windows.
TUESDAY, OCTOBER 20

Resilience & Collective Recovery
Sponsored by JE Dunn

Martha Larson graduated from Northwestern University in 1999 with a Bachelor of Science in mechanical engineering. She began her career in Chicago, working on large municipal and performing arts projects, first as an acoustical consultant for Kirkegaard and Associates and then as a project manager for the Rise Group. In 2010, Martha became the first manager of campus energy and sustainability at Carleton College. At Carleton, Martha led creation of the 2011 Climate Action Plan, installation of a 1.65 MW wind turbine, and development of a $40 million utility master plan to transition the campus district energy system from steam to hot water and geothermal heating. Martha will moderate this program.

Abby Meuser-Herr, CPHC, is an architect and CPHC with Precipitate. Abby thrives on creating elegant and integrated solutions for everyday design problems. She connects big ideas and a collaborative approach to promote the advancement of sustainable design practices in the building industry. Recent work investigates topics such as synergies between rainwater harvesting and waste heat recovery, and zero-energy planning and design at both the neighborhood and building scale. Of particular interest to Abby is the use of BIM technology to optimize building design through daylighting and energy analysis, a process first explored over 10 years ago on a small passive solar residence. Today this interest extends into building operations through the evaluation of performance metrics.

Brian Nowak’s work has always resided at the intersection of community and design. After receiving his Bachelor of Architecture from Cornell University, he moved to Minnesota, working in residential design for some of the finest companies in the Twin Cities, from the large firm of HGA to the boutique office of Sharratt Design & Co. Community has consistently shown up in Brian’s professional and service work. As one of the founders of EPNI in downtown Minneapolis, Brian went on to create NIC, where he developed over 200 affordable housing units that kickstarted the turnaround of the Elliot Park neighborhood. For 15 years, Brian ran his own design-build company, Hestia Homes. In that time, he designed and built over 120 homes, mastering the process of custom home construction.

Elizabeth Turner, AIA, CPHC, will moderate this session. Elizabeth is an architect with passion for finding synergies to create thriving, equitable communities that depend less on the purchase of energy, saving both operating expenses and carbon emissions. She founded Precipitate in 2017 to explore emerging methods of holistically integrated design at the intersection of architecture, research, and education. She was Certified Passive House Consultant for four affordable housing projects, and teaches the capstone project class for the sustainability studies minor at the University of Minnesota, connecting students with real-world clients. Elizabeth volunteers extensively with AIA Minnesota, advocating for public policy with a focus on equity, inclusion, and sustainable communities.

Scott Wopata, director of the Community Action Center of Northfield, is a community collaborator, encouraging systems to listen to and reflect the array of voices within a community. A St. Olaf College graduate with a degree in economics, Scott’s career navigated two parallel paths. Professionally, Scott spent eight years with Travelers Insurance as the point person on catastrophic property damage claims working with engineers, architects, contractors, and home/business owners following tragic loss. Personally, Scott spent these same years as a youth pastor, volunteer, high school soccer coach, and community leader. These paths converged when he accepted the position of executive director at CAC, leading organizations to renewed vision and resurgence.

12:30 p.m. – 2:00 p.m.

D2-37.

Sponsored by JE Dunn

In the U.S., longstanding crises of climate and wealth and racial inequality set the stage for a devastating coronavirus epidemic. Excessive deaths among people of color set the stage for mass protests about injustice, specifically focused on police killings of Black people. In this unstable period, organizations of all kinds – from banks to Little League baseball teams – become crucial resources for charting a way forward. Organizations are important social infrastructure in society which can use their intermediary position to mobilize and support the public, as well as to push politicians and policymakers towards just legislation and administration. The University of Orange, building on previous experience with mobilizing organizations for collective recovery, launched, “What is ours to do?” This project asks every organization to consider its obligations in meeting the people’s needs for resources and justice. The assumption of organizational responsibility helps to provide solid ground for people in uncertain times, lifting morale, saving lives, and pointing the way to a just future.

Dr. Mindy Thompson Fullilove, MD, LFAPA, Hon. AIA, is a social psychiatrist and professor of urban policy and health at the New School. Since 1986, she has conducted research on AIDS and other epidemics of poor communities, with a special interest in the relationship between the collapse of communities and decline in health. From her research, she has published numerous articles, book chapters, and monographs. She has also written The House of Joshua: Meditations on Family and Place, Root Shock: How Tearing Up City Neighborhoods Hurts America and What We Can Do About It, and Urban Alchemy: Restoring Joy in America’s Sorted-Out Cities. A third edition of Homeboy Came to Orange: A Story of People’s Power, which she helped her father, Ernest Thompson, write, was released in May 2018 by New Village Press. She is co-author, with Hannah L. F. Cooper, of From Enforcers to Guardians: A public health primer on ending police violence, issued by Johns Hopkins University Press in January 2020. Her latest book, Main Street: How a City’s Heart Connects Us All, was released in September 2020 by New Village Press.
TUESDAY, OCTOBER 20

Resilience & Collective Recovery
Sponsored by JE Dunn

2:00 p.m.–2:30 p.m.

D2-38.
Virtual Exhibit Hall

The Minnesota Conference on Architecture would not be the same without our valued partners. At the virtual exhibit hall, you can access the latest information on products and services and make contact for more information.

When you click on a virtual Exhibit Hall booth, you will find new product information, product photos, product videos, and contact information. Each exhibitor will be reachable with an email link for more information or to set an appointment.

Go to page 48 to preview the Virtual Exhibit Hall layout.

2:30 p.m.–3:45 p.m.

D2-39.
Critical Conversation: What Is Ours to Do?

This session is a Minnesota-specific follow-up to Dr. Mindy Fullilove’s keynote session, where she will center the question “What is ours to do?” in the context of racial justice in the built environment. The concept of collective recovery shared by Dr. Fullilove will be explored by participants, as applied to the recent past manifestations of racist policy decisions that have shaped unrest following the murder of George Floyd and the effects of Fullilove’s keynote session, where she will center the question “What is ours to do?” in the context of racial justice in the built environment. The concept of collective recovery shared by Dr. Fullilove will be explored by participants, as applied to the recent unrest following the murder of George Floyd and the effects of past manifestations of racist policy decisions that have shaped our cities and neighborhoods. Individuals, organizations, and professions all have unique and compelling work to do in creating more just communities and spaces. Attending Dr. Fullilove’s keynote is a pre-requisite to engaging in this session.

Go to page 48 to preview the Virtual Exhibit Hall layout.

D2-40.
Critical Conversation: What Can Further Equity, Inclusion, and Resilience Among Small Firms?

Most of the spotlight on equity, diversity, and inclusion efforts in the profession has been focused on large firms. What can small firms do to further EDI? What skill-building is needed? What are the unique opportunities that small firms bring to this profession-wide priority? And how can the financial vulnerabilities of small firms – especially BIPOC-owned small firms – be better understood and addressed? This session is an opportunity to inform the AIA National Small Firm Exchange as it embarks on efforts to further equity and inclusion within small firms and seeks to support small firms’ ability to withstand financial challenges.

D2-41.
The Shape-Shifting Standard of Care for Design

This interactive seminar discusses the current state of the standard of care by which design professionals’ performance is governed. We’ll review some of the forces that cause the standard of care to be an ever-changing, sometimes unpredictable, shape-shifter. We will also address the implications of the COVID-19 pandemic for the professional standard of care related to project design and construction administration services and propose practice management techniques that design professionals can implement to establish that they have met the applicable standard.
Resilience & Collective Recovery
Sponsored by JE Dunn

Karen Erger, AIA Minnesota Allied Member, is senior vice president and director of Practice Risk Management at Lockton. Drawing upon her experience as a construction lawyer in private practice and as a claim supervisor for a major insurer of architects’ and engineers’ professional liability, Karen consults with Lockton’s architecture, engineering, and construction clients on practice management issues, including complex claims and contracts, and provides risk management training and resources. Karen is an active participant in the American Council of Engineering Companies (ACEC) Risk Management Committee, a member of the Steering Committee of Division 3 (Design) of the American Bar Association Forum on Construction Law, a former professional affiliate director of AIA Chicago and a former volunteer docent for the Chicago Architecture Foundation.

Justine Kray, AIA Minnesota Allied Member, is a construction and design practice account executive committed to delivering insurance expertise to large architectural and engineering firms. She values meaningful client relationships and being clients’ advocate in the marketplace to obtain industry-leading coverage. Responsibilities include managing each client’s overall relationship with Lockton, negotiating placement of their annual insurance program and responding to daily service needs. With 25 years in the industry, Justine offers clients valuable guidance on contract insurability, coverage interpretation, project-specific limits, and insurance considerations relating to mergers and acquisitions in addition to hosting in-house educational sessions. She holds a Bachelor of Science in finance and the Chartered Property and Casualty Underwriter (CPCU) designation.

D2-43.
Designing for Resilience with the B3 Guidelines
Sponsored by Designer Specialty Products
1.25 LUs | HSW | Experience Level: Entry

Natural and human–made hazards including flooding, extreme storms, excessive heat, wildfires, and complex community issues are causing ecosystem disruption and more frequent damage to crops, homes, and businesses across Minnesota. The people most impacted by these climate and equity challenges are often those in socially vulnerable communities. Architects must be leaders in creating places that plan for and respond to our changing environment. The next version of the Minnesota B3 Guidelines includes required and recommended strategies to guide public building owners and their design teams in creating buildings and sites that ensure sustainable operations despite future uncertainty. Speakers will emphasize the architect’s role in design for resilience, using case studies that demonstrate hazard assessment and mitigation as well as adaptation strategies. Session attendees will learn how to conduct a vulnerability and capacity assessment to identify site hazards that are most likely to occur, assess potential frequency and severity, and predict impact on vulnerable populations. Speakers will compare and contrast approaches used in green rating systems like LEED, RELi, 21st Century Development, and B3. This session will provide a comprehensive approach for designers looking to improve the resilience of both public and private projects.
Becky Alexander, AIA, is an architect and researcher at LHB where she does a combination of sustainable building research and architectural design. Becky plays a key role in several significant statewide initiatives to reduce energy consumption and greenhouse gas emissions in Minnesota. She 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.

Richard Graves, AIA, is the director of the UMN Center for Sustainable Building Research and an associate professor in the UMN College of Design. From 2012 to 2014, he was the executive director of the International Living Future Institute, leading the operations and strategic efforts around the Institute’s signature programs. His research focuses on regenerative design as a fundamentally new approach that must be required of architecture across scales (from the building to the neighborhood to the city) to achieve sustainable and resilient urban development in a dynamic world. In addition, Richard is a leader of the management team for the State of Minnesota’s B3 and SB 2030 programs.

Liz Kutschke is a research fellow at the UMN Center for Sustainable Building Research. She received a Bachelor of Fine Arts in interior design from the Milwaukee Institute of Art and Design in 2010, and a Master of Architecture from the University of Minnesota in 2016 and 2017, respectively. Liz has a passion for research-driven architectural and urban design and has focused on building energy use, learning from natural systems, and considerations of equity and social justice in the built environment. She makes significant contributions to the State of Minnesota’s B3 program through her ongoing work developing and supporting the B3 Guidelines.

4:00 p.m. – 5:00 p.m.

**D2-45.**
Urban Determinants: Increasing Agency Through Socio-Political Analysis

In the last several years important conversations about equity, diversity, and inclusion have begun in firms across the Twin Cities. These conversations have focused primarily on the architect’s workplace: implementing processes for advancement, pay, mentorship, etc. However, few are directing this same analysis and commitment to equity to the spaces we design, which can also be embedded with inequities. Urban Determinants seeks to expand this exploration into our work to rethink our approach to site analysis. Urban determinants are spatial conditions that decisively shape people’s lives. They shape where we live and work, and manipulate our access to justice, health care, education, and wealth. To uncover and understand how these conditions shape space, we employ architectural representations to represent research, data, and policy documents. This approach considers the impacts of a project far beyond the legal boundaries of the site. As an architectural community, we have a responsibility to become fluent in these determinants and understand how our work affects them. Our ambition is to inspire action, increase the agency and value of design, and foster more responsive design to empower a more inclusive, passionate, empathetic future.

Amber Delgado received her Bachelor of Fine Arts in film/media production and Bachelor of Arts in art history from East Carolina University. Approaching her filmmaking and research through a Black feminist lens, Amber aims to make art and academic spaces accessible and equitable to people who have been historically excluded. Amber is currently based in Minneapolis to pursue a master’s degree in heritage studies and public history at the University of Minnesota.

Ashleigh Grizzell, Assoc. AIA, design coordinator, is a co-founder of Urban Determinants and has an undergraduate degree in business from Loyola University Chicago. After graduating she worked for several years for Ipsos, a global marketing research company, as a project manager. She graduated in May 2020 with a Master of Architecture from the University of Minnesota. She is passionate about community-led design projects.

Erin Kindell, Assoc. AIA, is a co-founder of Urban Determinants and the Women in Architecture Student Organization. She is interested in the social context of architecture and design-based research. She has an undergraduate degree in design and will soon complete a Master of Architecture from the University of Minnesota.

MacKenzie Kusler, Assoc. AIA, is a co-founder of Urban Determinants, passionate about health care architecture, and interested in the research of environmental psychology, social epidemiology, and the social determinants of health. She has an undergraduate degree in design and will soon complete a Master of Architecture from the University of Minnesota.

Denise Pike is a public historian born and raised in the Twin Cities. Throughout her work and studies she has been dedicated to linking inequalities in our present day with evidence of historical injustice. Her research interests and past work include the intersection of data, mapping, race, power, and urban history to address today’s disparities. Denise graduated in May 2019 with a master’s degree in heritage studies and public history from the University of Minnesota. Denise is currently head instructor for a real estate continuing education course titled “Racism & Real Estate,” co-project lead of “A Public History of 35W,” and the tech and design coordinator for the Black Midwest Initiative.

Adam Rosenthal is a co-founder of Urban Determinants and has an undergraduate degree in studio art from University of Minnesota Duluth. After graduating he worked for several years in the Science Museum of Minnesota’s fabrication lab, creating exhibitions for museums around the U.S. He will soon complete a Master of Architecture from the University of Minnesota.
**D2-46.**
The Culture Change Imperative: How We Can Create the Culture the Profession Wants and Needs

This session is the first major outcome of the AIA Minnesota Culture Change Initiative (CCI), launched in January 2019, which has involved more than 70 members throughout Minnesota. It is an effort to transform the culture of the profession by examining the current state, defining the culture to which we aspire, and taking a systems-thinking approach to determining the actions that hold the most promise in creating change. Members of the Culture Change Planning team (AIA Minnesota staff and volunteer leaders) will share insights gained from dozens of conversations with members of Minnesota's architecture community, analysis of leverage points in the system, core tenets of the desired culture, and transformative questions. Attendees will be asked to inform next steps in moving this work forward, helping it take root in firms, schools of architecture, and in the broader culture of the profession.

**PaviElle French** is the circulation director and equity, youth outreach, and operations at AIA Minnesota. She is a co-staffer of both the Equity, Diversity, and Inclusion and Architecture in the Schools committees and works closely with the CCI Planning Team. She is also an interdisciplinary artist and composer hailing from Rondo, a historically Black neighborhood in St. Paul. She is an Emmy Award winner, Sage Award for Dance winner, American Composers Forum Grant recipient and also a McKnight Award Fellow.

**Elizabeth Turner, AIA, CPHC** is an architect with passion for finding synergies to create thriving, equitable communities that depend less on the purchase of energy, saving both operating expenses and carbon emissions. She founded Precipitate in 2017 to explore emerging methods of holistically integrated design at the intersection of architecture, research, and education. She was Certified Passive House Consultant for four affordable housing projects, and teaches the capstone project class for the sustainability studies minor at the University of Minnesota, connecting students with real-world clients. Elizabeth volunteers extensively with AIA Minnesota, advocating for public policy with a focus on equity, inclusion, and sustainable communities.

**Mary-Margaret Zindren, CAE** serves as executive vice president/executive director of AIA Minnesota, AIA Minneapolis, AIA Northern Minnesota, AIA St. Paul, and the Minnesota Architectural Foundation. Prior to 2015, Mary-Margaret served as executive director of the Hennepin County Bar Association, and held executive positions at the League of Minnesota Cities and the National League of Cities. Mary-Margaret is a Certified Association Executive (CAE) and holds a B.A. in public administration from Miami University and an M.P.A. in public and nonprofit leadership from the University of Minnesota. She serves on the AIA Equity and Future of Architecture Committee, is vice president-elect of the Council of Architectural Component Executives (CACE), and received the CACE Emerging Leader award in 2018.

**D2-47.**
Tools for Personal Resilience: Mindfulness, Meditation, Yoga, and Art

This program examines tools and practices employed by architects and designers to enhance personal resilience and promote meaning and connection. The profession of architecture has a reputation for volatility and stress. The panel features individuals with diverse backgrounds and experiences sharing their personal mindfulness practices, and the impact of those practices on their life and their work. Attendees will learn how panelists incorporate mindfulness into their daily lives, how those practices change their approach to work, and gain insight into how they might incorporate similar practices and/or reframe their activities to promote resilience for themselves.

**Kar-Keat Chong, AIA**, is the founder of Studio KkChong, an art and architecture studio based in Golden Valley. Trained under professional artists in Malaysia, he developed a passion in on-location sketching at a young age and uses his drawing skills as a stress reliever. He currently splits his time on art and architectural projects.

**Alan D’Souza, AIA, LEED BD+C O+M**, is a senior associate at Alliance and the co-chair of the AIA Minnesota Committee on the Environment. His pottery practice brings humility and perspective to his architectural focus on sustainability and guides his exploration of form, utility, surface, and evocative expression, besides being just plain fun.

**Virajita Singh, LEED AP**, associate vice provost, senior research fellow, University of Minnesota, is an educator, researcher, university administrator, and artist. Trained in architecture, she engages principles of deep creativity and partnership to catalyze and empower individuals and communities to change systems and create socially and environmentally just futures. Her mantra meditation practice sustains her and offers hope, while her art is currently emerging in a small co-op of women artists.

**Mary Springer, AIA, LEED AP**, is a senior associate at Snow Kreilich Architects in Minneapolis. She is also a 500-hour certified yoga instructor. Mary’s unique, comprehensive perspective on architecture, coupled with a strong interest in health and wellness, prompted her to initiate a wellness committee at Snow Kreilich, where she leads yoga and meditation sessions weekly.

**Steven Wolf, AIA**, is a senior construction project manager at Target Corporation. Outside of his career in architecture, he is an avid sketcher, clawhammer banjo player, and would like to think of himself as a runner. He was also a certified yoga instructor for many years. Steve will be the moderator for this session.
The Ethics of Remote Work

While many of us periodically worked remotely before 2020 – from home, the job site, or from the road – the pandemic has shifted almost all activity in architecture to be remote in nature. What are the ethical implications of this shift? What does it mean for creating work environments that are equitable and free from discrimination – especially in the context of caregiving and virtual schools? How does working remotely affect our ability to facilitate the professional development and high performance of our teams? How can fully remote work continue to ensure competent and professional service to clients? Take stock of our society-wide, pandemic-fueled experiment with remote work through an ethical lens.

Christine Cavataio, Assoc. AIA, recently recognized as a “Woman of Influence 2020” by GlobeSt, has 30 years of experience in the architectural, engineering, and construction industry with extensive firm and project leadership experience. Her career has been focused on leading large, complex teams and notable projects. Christy knows the key to success is assembling and inspiring diverse teams and leveraging technology to its full capacity. As the new president/COO of Cuningham Group, she is focused on building on Cuningham’s legacy of “Uplifting the Human Experience.”

Anjali Ganapathy, Assoc. AIA, is associate professor of architecture at Dunwoody College of Technology. She has practiced both in the United States and India, where her own practice has run a gamut of scales from theater sets and installations to education, health care, and residential master planning projects. Her theoretical interest is in understanding how historical framing and narrative or “history on the ground” expresses itself in built form. She is currently finishing her dissertation on the same subject for her doctoral program in cultural studies and comparative literature at the University of Minnesota.

Wade Goodenberger, AIA, is an architect and partner at CRW architecture + design group in Rochester, MN. Over the last seven years of practice, Wade has designed a variety of projects in southeastern Minnesota, from adaptive reuse of historic buildings to multifamily housing on urban infill sites. Wade has also been actively involved in local Rochester government, serving six years as a planning and zoning commissioner as well as on the Zoning Board of Appeals. Wade has been a chapter director for AIA St. Paul since 2015 and is the current president-elect.

Meredith Hayes Gordon, AIA, LEED AP, is an architect and project team leader at HGA. She believes that the practice of architecture is a means for advocating for others and is committed to quality design that leaves a positive lasting impact. She has served in a variety of roles at AIA Minnesota including president of the organization in 2017. Currently, she is co-chair of the Center for Architecture Task Force and president-elect of the Minnesota Architectural Foundation. In 2020, Meredith was awarded a National AIA Young Architect Award.

Stephanie Howe, AIA, LEED AP, received her architectural degree from NDSU in 1992. She worked for a variety of architectural firms in the Twin Cities until she founded her firm Studio E Architects, LLC, in 2008 with the desire make architecture more accessible in rural Minnesota. Stephanie is an active member of AIA Minnesota as a director of the AIA Minneapolis board and a chapter director. She participated in the 2016 AIA Minnesota Leadership Forum and is on the board and the executive board of the United Way of Douglas and Pope Counties. She is a member of Glenwood and Beyond, which is a volunteer committee in rural Minnesota.

Stefnee Trzpcz, CID, EDAC, LEED AP, is a principal at BWBR. Stefnee holds a unique blend of passions for creative problem solving, research, equity, technology, and knowledge management. With a personal philosophy of “fail often, fail forward,” she is an enthusiast for leading change and transformations in operational improvement for BWBR. Stefnee is drawn to complex problems and seeks comprehensive solutions while orchestrating within the pillars of people, process, technology, and governance. Stefnee has been with BWBR for nearly two decades and holds a Master of Science in design from the University of Minnesota and a Bachelor of Science in interior design from North Dakota State University.

D2-49.
Campus B3 Benchmarking Analysis and Operations Planning Resulting from Work from Home

Public facilities faced on-the-fly shutdown in spring 2020 due to COVID-19. Since best practices were evolving week by week, campus operators had to examine latest guidelines and determine communication to students, staff, and support teams. With campuses reopening in the fall, operators continue to examine how to navigate future potential public health guidance to respond with optimal use of resources. This presentation uses the ongoing State of Minnesota B3 Benchmarking system that provides energy consumption guidance to public facilities, to examine the effect of the spring 2020 campus shutdowns on operations. In addition, the presentation will provide facility managers with an opportunity to reflect on their specific campus data, decisions made for public safety, and how they have optimized operations going forward.

Cheri Schneider is the B3 program manager with Willdan, who develops and manages B3 Benchmarking for the State of Minnesota. Cheri provides leadership in feature development, training, support, outreach, and communications. Cheri has a bachelor’s degree in business administration from Minnesota State University Mankato and over 20 years of application support, management, and deployment experience.

Kristi Heintz began work in early 2020 as Minnesota State’s sustainable facilities manager. Kristi previously worked as the sustainability coordinator at Lake Superior College, and with a northeastern Minnesota nonprofit to provide strategic sustainability planning assistance for
TUESDAY, OCTOBER 27

The Future of Design
Sponsored by ConstructConnect

As of this year, the AIA Minnesota Honor Awards will be evaluated using the AIA Framework for Design Excellence, formerly known as the COTE Top Ten Measures. The future of design excellence requires a holistic approach addressing the interdependence among people, buildings, infrastructure, and the environment. This program will examine health, safety, and welfare through the lens of the multiple measures included in the framework. Three COTE Top Ten Award projects, designed by three Minnesota firms, reframe sustainable design as a primary driver of health, safety, and welfare innovation in the built environment. The panel provides a wealth of experience and perspective on these issues and uses a case study methodology to translate those lessons to the attendees through storytelling; discussion among panelists on the successes and struggles of the projects; and critique of the outcomes of these three acclaimed and elevated projects from the architecture community at large. This program frame a discussion that leaves attendees with both a more intimate knowledge of each project’s process and success, and a means of transferring those lessons back to their own firm’s work with renewed awareness of the parallel goals of creating sustainable design and pursuing the primary tenets of our profession: to advance quality of life and protect public health, safety, and welfare through our work.

Local Lessons from the COTE Top Ten
Sponsored by H+U Construction

Emily Ziring is the sustainability manager with the City of St. Louis Park and previously worked as sustainable facilities program manager at Minnesota State. Emily has a master’s degree in urban planning and policy from the University of Illinois at Chicago.

Carol Ross Barney, FAIA, design architect, Ross Barney Architects, Chicago, has been in the vanguard of civic design since founding Ross Barney Architects in 1981. With a career that spans over 40 years, Carol has made significant contributions to the built environment, the profession, and architectural education. As an architect, urbanist, mentor, and educator, she has relentlessly advocated that excellent design is a right, not a privilege. Her body of work, almost exclusively in the public realm, represents this ethos and occupies a unique place within the panorama of contemporary architecture.

Karen Lu, AIA, NOMA, is a senior associate at Snow Kreilich Architects and president of AIA Minnesota. Karen’s commitment to design excellence and to positively impacting future generations of architecture professionals and global citizens is evident in her professional work and service to the AIA and her community. Karen has been recognized for her leadership with the AIA Minnesota and national AIA Young Architect Awards. Currently president of AIA Minnesota, Karen also serves as board advisor to MSP AoA NOMA.

Brian Morse, AIA, TKDA, Duluth, has been at the forefront of architecture and design while working as a senior registered architect at TKDA. Brian’s career spans over 35 years and includes leading large teams on complex architectural projects as project manager and architect of record, working closely with the design architects and clients to assure the design intent is preserved through the final drawings and construction.

David Salmela, FAIA, Salmela Architect, Duluth, is an award-winning architect and designer. He grew up on a dairy farm in central Minnesota and taught himself design, then spent 46 years discovering appropriate design opportunities within the culture and landscape of Minnesota and Upper Midwest. David has won over 70 regional, national, and international design awards, including national AIA Honor Awards and the AIA Minnesota Gold Medal. His work is informed by his Scandinavian roots, the dynamic climate of the region, and the importance of natural light.

Marla Spivak is a MacArthur Fellow and McKnight Distinguished Professor in Entomology at the University of Minnesota. Her research efforts focus on protecting and enhancing the health of honeybees and on propagating floral rich landscapes to support all pollinators.

Malini Srivastava, AIA, DDes, CPHC, is assistant professor in resilient and regenerative design, and director of the Masters of Science in Research Practices program at the UMN College of Design. She completed her doctoral work at Carnegie Mellon University (2020), titled, “Purposeful Play in 2020.” She is co-principal of Dandelab. She is a 2018 recipient of the AIA Young Architect Award and a 2014 recipient of the Bush Fellowship. In 2017, Malini received the Outstanding Educator Award from the NDSU College of Arts, Humanities and Social Sciences. She is the project lead of efargo, a University-City-Utility partnership that resulted in the City of Fargo winning the national Georgetown University Energy Prize in 2017.

Chris Wingate, Assoc. AIA, is passionate about developing and applying a design-centric approach to sustainability that focuses on clarity of concept, design rigor, and inspiring visualization. He leads research and...
The Future of Design
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The Future of Design

TUESDAY, OCTOBER 27

The Future of Practice: Now and Later
1.5 LUs  Experience Level: Entry

The future is now. COVID-19 catalyzed a whirlwind of changes that have reshaped architectural practice. In a recent article, Phil Bernstein, dean of Yale’s architectural program, outlined 10 categories to track changes in the future of practice: economy, demographics, jobs, technology, practice methods, practice structure, construction, talent, space, and the city in a COVID-19 world. Nine months into a post-COVID-19 world, the AIA Minnesota Emerging Professionals (EPC) and Architect Licensing Advisory (ALA) committees have combined resources and research to assess how Dean Bernstein’s predictions have been realized or fallen short in the near future. Join this session for a discussion on changes to the profession now and later. Our team then takes a shot in the dark with our own predictions about the future of practice from the viewpoint of emerging professionals and an established practitioner.

Nicki Ellis, AIA, is project manager/architect for Metro Transit. Molly grew up in Southeast Texas. Through her professional degree at the University of Houston, she was inspired to learn more about designing for a changing climate. In Minnesota, she received an M.S. in sustainable design in architecture. With a background in construction management and publicly funded design, Molly works as a project coordinator for facilities at Metro Transit. Molly enjoys engaging in office activities and helping foster a healthy workplace community.

Chris is also an adjunct faculty member in the University of Minnesota’s Master of Architecture program, teaching sustainable design.

D3-53. The Future of Practice: Now and Later

1.5 LUs  Experience Level: Entry

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Toward Right-of-Reliance: Digital Modeling in Design and Construction

The 1.8 million-square-foot Allegiant Stadium is the newest landmark on the Las Vegas strip. The Mortenson | McCarthy joint venture team wrapped up the $1.97 billion facility at the end of a successful 31-month-long construction schedule, a mere 40 months after the NFL’s approval of the Raiders’ move to Las Vegas, making it one of the fastest modern NFL stadiums ever built. As the design-build contractor, Mortenson | McCarthy built a team of more than 200 firms and used digital modeling from the start to drive performance and maximize efficiency. This delivery model was critical to the team’s success as they navigated unique design elements and installations, and overcome challenges working toward a common interest. Technology was leveraged throughout the design and construction process on a variety of scopes to improve coordination and reduce the time and cost of construction. Dependent on the ever-changing critical path activities, BIM efforts were aligned to focus on areas of greatest impact. Data visualization broadened the access of actionable data to those who needed it, enhancing decision-making at all facets of the project. How can the AEC community move the dial on issues like right of reliance and leveraging technology to enhance early design coordination across project teams? Hear more from the project team on what worked well, challenges faced, and lessons learned.

Frank Freudenberger is an associate principal in Arup’s Los Angeles office. Frank joined Arup in New York City in 2003. He has since been instrumental in delivering many large-scale and multidisciplinary projects around the world, including the Northeast Asia Trade Tower in Songdo, South Korea; the Landmark Tower in Abu Dhabi, United Arab Emirates; Loma Linda University Medical Center in California; and, more recently, Allegiant Stadium in Las Vegas. Through his work in the U.S. and abroad, Frank has gained significant experience in construction-led project delivery, efficient digital model generation, and 3D coordination within the project teams.

David Graue, AIA, LEED AP, is the associate vice president at HNTB Architecture, where he brings over 20 years of experience managing and leading large project teams utilizing BIM technology. David integrates his design experience and years of working closely with contractors during construction administration to promote a collaborative team environment which helps increase project efficiencies and decision-making while supporting the design intent from concept through construction. David is a member of HNTB’s Architecture Technology Committee and is on the HNTB CIS Advisory Council.

Eric Grenz, LEED AP, is vice president of operations at Mortenson, where he is responsible for establishing strategic goals for Mortenson sports projects as they relate to safety, quality, and schedule in order to achieve complete customer satisfaction. Eric joined Mortenson in 2004 and has been instrumental in leading some of the company’s most challenging projects, including U.S. Bank Stadium, Salt River Fields, and most recently Allegiant Stadium. Eric received his Bachelor of Science in construction management from Minnesota State University Moorhead.

Living Design: A New Story of Life and Beauty in the Anthropocene

Through expansive scientific analysis, it is known that Homo sapiens, using their instinctive skills for adaptive creativity, have become the single greatest influence on Earth’s living biosphere. That influence is profound, and it is now radically changing the context of architecture, design, and the potential of human creativity in ways never imagined by humanity and the great thinkers that shaped the modern era. This presentation explores the four futures available to humanity, and the pivotal role architecture, design, and applied creativity can play in creating a vital and living future that supports not only humanity, but the whole of life on Earth. The session will be delivered in seven- to 10-minute components with the opportunity for Q&A following each component. The content includes compelling theory that is translated into immediately actionable practice opportunities that influence not only the process of design, but the tangible outcomes that make deep, lasting change through the materiality, physicality, and sociality of architecture.

Joel Jacobsen has a passion for defining innovative use of technology to support large-scale and high-profile projects in his role as senior integrated construction manager at Mortenson. His unique skill set is a result of time spent within the construction trades while earning a Bachelor of Architecture degree from the Illinois Institute of Technology and his extensive 3D modeling and coordination background. Prior to joining Mortenson, Joel spent his early professional career managing BIM implementation for premier architecture firms in and around the Chicagoland area. Since joining Mortenson, Joel has successfully managed virtual design and construction on numerous projects spanning multiple market sectors and regions.

Michael Kisch, AIA, LEED AP BD+C, will moderate this session. Michael advocates for engaged, interdisciplinary design and construction processes that inform and establish shared visions that drive effective, creative design solutions delivering successful projects. As a design phase manager for Mortenson’s Sports Group, Michael brings over 20 years of experience to effectively navigate and manage the interplay of the practices of architecture, planning, and construction to deliver complex projects. Michael has been recognized within the industry as one of the nation’s “40 Under 40” by Building Design + Construction, and received the AIA Minnesota Young Architect Award for his expansive approach to practice, business, and leadership.

Douglas D. Pierce, AIA, Assoc. ASHRAE, LEED Fellow, RELI AP, designs, speaks, and writes with a passion for integrating art and science through poetic innovation. He is always in pursuit of pioneering the next breakthrough that will shift his projects, along with humanity, society, and life, toward a new story—one that’s sustainable, resilient, and inclusive. Doug has practiced resilient design for 30 years, working on the Great River Energy project, developing a sustainable design master’s degree program at the UMN College of Design, and testifying before the Minnesota legislature and White House
TUESDAY, OCTOBER 27

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**D3–56.**
Toward More Inclusive, Equitable, Affordable Housing Outcomes
Sponsored by Kraus—Anderson Insurance

The quest to provide equitable affordable housing outcomes for individuals and families in this region continues to be fraught with pernicious challenges. In this session, we will identify several of these challenges and offer alternative ways to advance the conversation through the lens of intersectionality that addresses factors like race, class, access to opportunities, and resource allocation. For each topic, we will invite dialogue and interaction from the attendees. We intend to raise awareness and present the possibility of an alternate future in which affordable housing is higher quality, more accessible, and more evenly distributed across the region.

**James Garrett, Jr., AIA, NOMA,** is managing partner at 4RM+ULA. LLP. By uniting art with architecture, James creates dynamic spaces for the 21st century that demonstrate a commitment to diversity and equity in the profession. A visual artist and writer who was formally trained as an architect, he gives voice to underserved communities and is deeply invested in the human experience. Growing up in St. Paul in the post-industrial era that gave rise to hip-hop culture and graffiti writing, he has made it his mission to reconnect art and architecture. His work as the founding partner of St. Paul’s 4RM+ULA combines resiliency and dynamic expression in the form of vibrant color and diverse media. He was a 2015 AIA Minnesota Young Architect Award recipient and a 2019 AIA Young Architect Award recipient, and was also named as one of “25 Young Architects to Watch” by the Architect Journal.

**Alissa D. Luopkie Pier, AIA,** is an award-winning architect who is the vice president and senior-most member of the Minneapolis City Planning Commission (CPC). She received her UMN Master in Architecture in 2002. She received the AIA Young Architect Award from AIA Minnesota in 2010 and AIA National in 2013, was recognized as a “Alumni of Notable Achievement” from the University of Minnesota in 2017, and acknowledged as a Minneapolis/St. Paul Business Journal “40 Under 40” Honoree in 2014. She is the principal architect of 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.

**D3–57.**
Virtual Exhibit Hall

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Go to page 48 to preview the Virtual Exhibit Hall layout.

**9:45 a.m.–10:15 a.m.**

**D3–58.**
The Future of Regenerative Development: Hillcrest and LEED for Communities
Sponsored by H. Robert Anderson & Associates

When the Saint Paul Port Authority began the planning for Hillcrest, the redevelopment of a 112-acre brownfield into a vibrant new community within Saint Paul’s Greater East Side, several parties asked about how this development will handle equitable and regenerative design for the future. The Port’s mission includes a focus on advancing sustainable and equitable development. The City of St. Paul suggested the possibility of achieving aggressive energy and carbon reduction goals for this project. Representatives from the Hillcrest development team will discuss how they are using the International Living Future Institute (ILFI)’s JUST label for organizations and the USGBC’s LEED for Communities rating system as a guiding framework for decision-making to create a regenerative, equitable, and resilient community. Another key component of this approach is planning to achieve a carbon-neutral development. Speakers will highlight how these projects are evaluating innovative strategies for reducing greenhouse gas emissions from energy use in buildings, transportation, street lighting, water and wastewater, and waste management. Project leaders will explain how we move from planning for equitable, regenerative developments to actually getting it done.

**Becky Alexander, AIA,** is an architect and researcher at LHB where she does a combination of sustainable building research and architectural design. Becky plays a key role in several significant statewide initiatives to reduce energy consumption and greenhouse gas emissions in Minnesota. She 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.

**Rick Carter, FAIA, LEED Fellow,** brings more than 38 years of experience to his role as chief executive officer of LHB. Rick works extensively on design for efficient resource use and occupant well-being, leading efforts for LHB to be visible experts in regenerative design and research. His projects range from the building to regional

**10:15 a.m.–11:45 a.m.**
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scales with the goal of contributing to achieving Minnesota’s greenhouse gas emission reduction goals. Rick helped develop the Hennepin County/Minnesota Sustainable Design Guidelines and currently co-manages the Buildings, Benchmarks and Beyond (B3) Project, including execution of sustainable guidelines for the State of Minnesota. His current projects include the ongoing development of the Regional Indicators Initiative, large-scale efforts created by LHB to provide data and tools for Minnesota local government energy and climate action.

Monte Hilleman, senior vice president of real estate development, joined the Saint Paul Port Authority team in 2005 after several years of local community development and state-level environmental work. His peers named him the inaugural “Person of the Year” for Brownfield Renewal Magazine and a “40 Under 40” by the Twin Cities Business Journal. He leads the Port Authority’s development team and is the president of Port Consulting, the Port’s statewide distressed real estate consulting business. He is responsible for and speaks nationally about the Port’s sustainable development mission and their Green Design Review program. Hilleman is the past chair and current board member of the U.S. Green Building Council’s Market Leader Advisory Board for Minnesota.

Steven Dwyer, FAIA, LEED AP, is a design principal at HGA. Steven’s work and leadership have been recognized with numerous awards including AIA regional and national Honor Awards, AIA’s National Young Architects Award, the Chicago Athenaeum’s American Architecture Award, and the SCUP Excellence in Campus Architecture Award. In 2016, ArchDaily cited his work among the Top 100 American Buildings in the past decade.

Damaris Hollingsworth, AIA, NOMA, NCARB, LEED AP, is a TEDx speaker and inclusive architectural thought leader who creates sustainable places and spaces that remain relevant through the shifts of demographics and economics. Damaris has an architectural and urban planning degree from the Faculdade de Arquitetura & Urbanismo at University of Sao Paulo, Brazil. Having moved to the U.S. in 2006, Damaris has since become a registered architect, a LEED-accredited professional, and holds an NCARB certificate. Damaris’s dynamic and engaging personality combined with her global and multicultural background enables her to connect with

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people from all walks of life. Her approachability makes people feel relevant and of her work makes it clear that all voices matter.

Donovan Nelson, AIA, LEED AP is associate principal at Perkins + Will. Donovan is fueled by his curiosity of the world around him. Donovan’s work is driven by his background in orchestra and ballet, and he views the design process as a choreography of individuals creating architecture together. He believes in bringing multiple perspectives, voices, and skills together for collective success. Donovan’s interest in healthcare began early in his life. As an adolescent, and later as a parent, Donovan spent many weeks in healthcare facilities and realized the impact of these environments on the well-being of people. He is driven by his personal experiences in these spaces and aims to design environments that nurture and lift the human spirit.

Margaret Parsons, FAIA, ALEP, LEED AP BD+C is principal of education at Cunningham Group. Meg has been active in the planning and design of a wide range of educational projects from high schools to elementary schools, with key involvement in pre-referendum planning through construction.

D3-61.
Design in the Post-Pandemic World

Sponsored by Schuler Shook

This program, based on the podcast “Post-Pandemic World” and the blog “A Journal of the Pandemic Year,” will draw from work going on at the University of Minnesota and the Minnesota Design Center to assess the long-term impact of the pandemic on how we may increasingly live, work, learn, shop, eat, travel, heal, worship, and recreate in the future. We don’t know what the future holds, but we do know that the pandemic, like major plagues before this one, will have transformative effects on the built environment and we believe that, collectively, we can begin to anticipate what those effects might be and how we might start to prepare for them now.

Thomas Fisher, Assoc. AIA is a professor in the School of Architecture, director of the Minnesota Design Center, and former dean of the UMN College of Design. A graduate of Cornell University in architecture and Case Western Reserve University in intellectual history, he was the editorial director of Progressive Architecture magazine for almost 15 years and was recognized in 2005 as the fifth most published architecture writer in the U.S. He has written or edited 11 books, written over 60 book chapters or introductions, and authored over 450 articles in professional journals and major publications.

Virajita Singh, LEED AP is an associate vice provost in the UMN Office of Equity and Diversity, a senior research fellow in the Center for Sustainable Building Research (CSBR), and an adjunct faculty member in the School of Architecture at the University of Minnesota. She leads CSBR’s sustainable design assistance program that engages students from the College of Design to help communities, nonprofits, and local governments interested in implementing sustainability projects. Virajita’s vision is to partner in, assist, and help accelerate the transformation currently underway of Minnesota’s communities toward sustainability, one community at a time. Virajita has a bachelor’s degree in architecture from Mumbai, India, and a master’s degree in architecture from the University of Minnesota.

D3-62.
At Home with Growing Older: How Designers Can Help Us Reshape Our Long-Term Relationships with Our Homes

Experience Level: Entry

As we get older, our focus naturally shifts to our home; we spend more time at home and our home plays a key role in all aspects of our lives, including being a point of care. Due to COVID-19, this experience is now being shared by the general population. This moment offers an opportunity to promote a more active and dynamic role for the ordinary dweller in adapting their home to their needs, and for designers and architects to support them in this endeavor. Age-friendly design is a call to action – to reinvigorate home design, to reevaluate our relationship with our homes, and to reclaim our ability to dwell in them as long as possible.

Susanne Stadler is principal of Stadler & executive director and co-founder of At Home With Growing Older (AHWGO). Susanne is an architect and social entrepreneur passionate about shifting the perspective on aging and an advocate for imaginative and human-centered design solutions for the later phase of life. For the past 20 years, an important emphasis of her work has been to provide sustainable design solutions for the complex needs of aging that allow people to age with safety and delight, at home and in the world. She currently guides the age-friendly design of the third floor of the Audrey Irmas Pavilion in Los Angeles, designed by the Office of Metropolitan Architecture (OMA) for the new Wallis Annenberg GenSpace, a community and learning center for older adults.

12:30 p.m. – 2:00 p.m.

D3-64.
Keynote Address: The Future of Design

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So much of what lies ahead for the profession and practice of architecture, for the future of design and the built environment, will have been shaped by the events of 2020: a global pandemic and related financial fallout, an escalating climate crisis, and what feels like a potential tipping point in addressing centuries-long systemic racial injustice. James Garrett, Jr., AIA, NOMA, artist, architect, and advocate for a built environment that reflects and is responsive to the public it serves, and Dr. Rory Hyde, curator of contemporary architecture and urbanism at the Victoria and Albert Museum (V&A), and design advocate for the Mayor of London, will share their visions for what the future can hold and what it will take to get there.
James Garrett, Jr., AIA, NOMA is a visual artist, writer, and architect who expresses the urban condition through the lenses of art and design. His work employs diverse media to explore complex theoretical topics from a unique, ethno-experiential perspective. James is a 2019 AIA Young Architect Award recipient who currently serves on the Metropolitan Council Livable Communities and Transit Oriented Development Advisory Committees. James holds an B.A. degree in architecture from the College of Environmental Design at the University of California Berkeley and a Master of Architecture degree from Parsons School of Design in New York City.

Dr. Rory Hyde is the curator of contemporary architecture and urbanism at the Victoria and Albert Museum, design advocate for the Mayor of London, and adjunct senior research fellow at the Melbourne School of Design. His work is focused on new forms of design practice, and redefining the role of the designer today. He is the co-curator of major V&A exhibitions ‘All of This Belongs to You’ and “The Future Starts Here,” and represented Australia at the 2012 Venice Architecture Biennale. He is the author of Future Practice: Conversations from the Edge of Architecture (2012), and one of the editors of Architects After Architecture: Alternative Pathways for Practice (2021).

2:00 p.m. – 2:30 p.m.

D3-65.
Virtual Exhibit Hall

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2:30 p.m. – 3:45 p.m.

D3-66.
SB 2030 ... Welcome to the (80 percent to Zero Carbon Goal) Neighborhood!

SB 2030 recently moved to an 80 percent goal for carbon reduction for applicable public-funded projects. This step pushes projects beyond the frontier of energy efficiency alone, requiring evaluation of on-site and off-site renewables. In addition, the program has developed updated economic payback criteria for on-site measures to help streamline each team’s experience with SB 2030 to success. This panel discussion presents the updates to SB 2030 in context of Marshall Avenue Flats, an early entry in 2020 to the updated process. The owner, architect, and SB 2030 team will discuss the early challenges and successes with the updated process, with best practices for the audience to continue to make SB 2030 an active and valuable design process for both applicable public-funded projects as well as voluntary enrollments.

Keon Blasingame is an associate, project manager, and housing sector leader with LSE Architects. Keon strives to expand equity and diversity in the field as a Minnesota Architectural Foundation board member, as an Architectural Youth Program facilitator and as a UMN Student Excellent in Academics and Multiculturism (SEAM) Program ‘Intro to Architecture’ instructor. In the community, Keon lends both his time and leadership to several scholarship foundations, including the Jackie Robinson Foundation, UMN Kirby Puckett Scholarship, and the Clarence Wigington Minority Architectural Scholarship. Keon has a Master of Architecture and Bachelor of Science in architecture degree from the University of Minnesota.

Heather Hanson is a project manager at Willdan with an extensive background in commercial and residential energy efficiency programs. With Willdan, Heather applies her knowledge and experience to commercial new construction projects, guiding teams in the study and selection of impactful and cost-effective energy conservation measures. Heather also provides consultation on the SB 2030 Energy Standard, most recently on the Marshall Avenue Flats project in St. Paul, along with other sustainability programs such as Enterprise Green Communities. Heather holds a B.S. degree in bio-based products with a specialization in building science from the University of Minnesota and an A.S. degree in business management from Minneapolis Community and Technical College.

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 developing and administering a wide range of utility programs. 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. She holds a master’s degree in marketing from the University of St. Thomas.

Russ Landry, LEED AP, is a senior mechanical engineer at Center for Energy and Environment (CEE). Russ plays various roles in field research projects and energy efficiency programs that improve energy efficiency in commercial and multifamily buildings. Since 2005, Russ has been increasingly involved in new construction projects through plan review, whole-building energy simulation, and other technical support to design teams and to organizations charged with project oversight and verification. This includes leading the third-party technical review of projects against the Sustainable Buildings 2030 Energy Standard. In addition to being licensed as an engineer in Minnesota and Wisconsin, Russ is an ICC-certified commercial energy plans examiner with ASHRAE 90.1 and recently served as president of the Minnesota chapter of ASHRAE.
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**Patrick Smith** is a senior research fellow at the UMN Center for Sustainable Building Research. His research experience includes sustainable building policy development, utility auditing and performance evaluation, sustainable building guideline evaluation and development, sustainable building metrics, building performance benchmarking and evaluation, and the implementation of life cycle analysis in green building guidelines. He currently teaches in the undergraduate and graduate architecture programs in the UMN College of Design and manages program development and participant assistance in the B3 and SB 2030 programs.

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**D3-67.**

**Business Case Studies for Equity in Goods and Services**

**1.25 LUs** Experience Level: Entry

The **2017 Minnesota Joint Disparity Study** examined whether discrimination affects minority- and women-owned firms in the marketplace and ways to address that discrimination. Eight local and state government agencies came together to analyze whether there is a level playing field for minority- and women-owned firms. The study reviewed procurement practices within the fields of construction, professional services, goods, and other services in the public and private sector. Results of this research revealed that there are disparities for these firms as compared to white-owned firms. Furthermore, systemic issues of racism, unsolved bias, and stereotyping based on race or gender are factors that have impacted firms in receiving contracts. The Minnesota Minority Goods and Services Association (MMGSA) is working with several of these agencies to provide insight on how to more successfully engage with firms of color by removing these institutional barriers to compete. Our panel, comprised of MMGSA members, will provide an overview of the study and highlight trends in the procurement processes from some of the involved agencies. Participants will gain a broader understanding of the importance of firms of color as lead team members or project participants to produce a more equitable workforce and increased contracting outcomes.

**Alicia Belton, AIA, NOMA, LEED Green Associate**, has over 30 years of experience in practicing architecture. Designing wellness in the world, she works with clients to manage their design and building process of workplace, housing, religious, and hospitality sectors. This often includes community workshops where she facilitates programming and visioning sessions to gain consensus on project goals. She currently serves on the board of Twin Cities Habitat for Humanity, the Capitol Area Architectural Planning Board, the Hennepin County Designer Selection Committee, and the MMGSA board. She has previously served as co-chair of the AIA Minnesota Small Firm Committee, chair of the Minnesota Architectural Foundation (MAF) Wigington Committee, and as president and treasurer of the MAF.

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**Honor Awards: Jurors Show and Tell**

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**D3-68.**

**Honor Awards: Jurors Show and Tell**

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**Experience Level: Entry**

Featured in this session are the three nationally recognized 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.

**Andrea Love, AIA, LEED Fellow** is a principal at Payette and leads the firm’s Building Science Group. She has centered her career on sustainability with a focus on energy performance. In addition to project work, she leads staff on independent research projects that cover a full spectrum of pursuits, from analyzing how interaction spaces work to quantifying the impact of differing insulation techniques and optimizing natural ventilation strategies. Love received an M.A. in architecture studies/building technology from MIT, where she also teaches a class on building-envelope performance. She currently serves on the USGBC Massachusetts Board, USGBC and Education Steering committees, and the AIA COTE Advisory Group.

**Patricia Rhee, FAIA** is a partner at Ehrlich Yanai Rhee Chaney (EYRC) Architects, where she has practiced for 20 years. In 2015, EYRC received the AIA Architecture Firm Award, one of the industry’s highest honors. Rhee has served as partner-in-charge and lead designer for several of the firm’s most notable projects, including the Culver Steps, John M. Roll Federal Courthouse, and the Press Adaptive Reuse. Her project experience ranges from civic to institutional and commercial developments of all scales and multiple delivery methods, including design-build. She has lectured internationally, most recently at the University of Melbourne School of Design’s Transformations: Actions on Equity Symposium, cohosted by Parlour.

**Barry Alan Yoakum, FAIA** has produced innovative and high-performance designs for more than 40 years. He was elected to the AIA College of Fellows in 2010, has lectured at over 100 organizations, and has served as a design juror throughout the AIA and with leading publications such as Architectural Record. Yoakum’s work has received nearly 100 design awards, a NOVA Award, and a National Endowment for the Arts Citation. Further recognition has appeared in numerous books, ARCHITECT, Architectural Record, Architectural Digest, Dwell, Progressive Architecture, Residential Design, CNN, PBS, the New York Times, and the Wall Street Journal.

**D4CR Design for Community Regeneration**

**Experience Level: Entry**

**D3-69.**

**D4CR Design for Community Regeneration**

**Experience Level: Entry**

The world is going through multiple major transitions in response to the climate crisis, inequality, and post-pandemic health and economic impacts. Designers are responding with future-focused approaches that reimagine resilient and regenerative communities, policies, and economies. **Design for Community Regeneration (D4CR)**, led by the Minnesota Design Center in collaboration with the Regional Sustainable Development Partnership, catalyzes greater resilience in rural and urban communities by bringing an interdisciplinary team in to work with communities on innovating redevelopment of underutilized land to address 21st century development challenges such as food, energy and public health security, water infrastructure, climate change, social cohesion, and changing socioeconomic forces. The team will present a three-year pilot to collaborate in a community design process with a rural, peri-urban, and urban community cluster (Hallock, Warren, and Crookston) in northwest Minnesota. The multisector team is testing design approaches and solutions to inventory and redevelop underutilized land, specifically golf courses, school yards, industrial parks, and urban/rural vacant lots. Using the geodesign process, the goal is to shift these lands from financial drain to new sources of community and environmental income, wealth, and equitable well-being.

**Jonee Kulman Brigham, AIA, LEED AP O+M** is a senior research fellow at the Minnesota Design Center and fellow of the Institute on the Environment. She is co-project manager and sustainable design lead for D4CR. She is also the lead researcher and designer for the Minnesota GreenSteps Schools program, co-authored the NCARB monograph on sustainable design, and co-edited the initial MN B3 Sustainable Building Guidelines.
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**D3-70.**
Stories to Inspire and Tools to Transform Building Products

1.25 LUs | HSW  | Experience Level: Advanced

This session will focus on the experience of practitioners who have been working deeply in the building product marketplace. The last ten years have been about increasing building product transparency and creating tools to help project teams take concrete steps. For the next decade, the imperative is to use these tools to change how we design, evaluate, and use products that are better for human health and the planet. Speakers will focus on their essential strategies and will share thoughts on how to develop priorities for the next decade. New pilot credits in LEED v4, combined with opportunities in the WELL v2 rating system, provide frameworks for rewarding innovations in these areas. Beyond certifications, we have removed barriers, so that all parties can engage in the transformation required, no matter the scope of their work. For the second half of this workshop, we will ask, “Together, how can we make buildings healthier, manufacturing processes safer and less carbon-intensive, and supply chains more responsible?” Solutions will require collaboration, pooling knowledge, and drawing on the practical experience of many. The challenge will also demand a multitude of strategies that can be scaled to meet practitioners where they are.

**D3-72.**
What You Need to Know About Antimicrobials

Sponsored by H. Robert Anderson & Associates

1.0 LU  | HSW  | Experience Level: Intermediate

As our industry responds to the COVID-19 pandemic, we have all been inundated with healthy building options, from antimicrobial surfaces to revolutionary cleaning solutions. This session will focus on the myths and facts around the growing market of antimicrobial products. We will also cover the topic of cleaning and sanitizing with an eye on sustainability and health in a world living with coronavirus. Attendees will walk away with knowledge from experts in the field and specific strategies from local firms.
to make it easier for them to help reduce the spread of harmful antimicrobials in our environment.

Simona Fischer, AIA, is an architect and sustainability leader at MSR Design. She led the development of MSR’s publicly available material library entry criteria and staff onboarding guide, and is working on the problem of integrating sustainability into the natural workflow of architectural practice. She is the co-chair elect of AIA Minnesota Committee on the Environment.

Sophia Good, an interior designer at BWBR, fuses her interests in environments that support the health and well-being of occupants with her passion for evidence-based design to help organizations discover efficacious solutions to their objectives. A graduate of the University of Kentucky, she served as a design research assistant while pursuing her undergraduate degree. That passion for research-informed solutions has influenced much of her design work, from Ireland to the United States in high tech, biopharma, corporate, and social service sectors.

Teresa McGrath, chief research officer, leads Healthy Building Network’s research and education strategies. With prior experience in government, NGOs, and industry, she brings a wealth of holistic knowledge and multisector experience to her team. Teresa led the chemical management program for Sherwin-Williams, the largest paints and coatings company in the world, where she focused on hazards reduction and transparency, and assisted business units in meeting sustainability and green chemistry goals. She also spent nine years as the senior managing toxicologist at NSF International’s Green Chemistry Programs, and two years at the Environmental Protection Agency in the Design for the Environment (DfE) Branch of the Office of Pollution Prevention and Toxics (OPPT).

Nicolle VanWie, AIA, LEED AP BD+C, WELL AP, is a senior architect in the housing studio at LHB. With 20 years of experience, Nicolle focuses on creating thoughtfully designed sustainable multifamily and student housing. Demonstrating leadership in sustainable design is one of Nicolle’s top priorities. She is committed to green building practices and is an active member in her local USGBC chapter. She is currently serving a two-year position on the USGBC Market Leadership Board. She is also active in the Minnesota Wellness Collaborative which strives to build industry demand and professional services around built environment health and well-being. Along with serving as project manager on affordable housing projects, she leads an internal environmental working group to support the efforts of the housing studio to build resilient, healthy, efficient, and beautiful places to call home.

Mary-Margaret Zindren, CAE, serves as executive vice president/executive director of AIA Minnesota, AIA Minneapolis, AIA Northern Minnesota, AIA St. Paul, and the Minnesota Architectural Foundation. Prior to 2015, Mary-Margaret served as executive director of the Hennepin County Bar Association, and held executive positions at the League of Minnesota Cities and the National League of Cities. Mary-Margaret is a Certified Association Executive (CAE) and holds a B.A. in public administration from Miami University and an M.P.A. in public and nonprofit leadership from the University of Minnesota. She serves on the AIA Equity and Future of Architecture Committee, is vice president-elect of the Council of Architectural Component Executives (CACE), and received the CACE Emerging Leader award in 2018.

Anna Pravinata, AIA, LEED AP BD+C, principal at Alliance, has dedicated much of her professional career to designing leading-edge research facilities for both corporate and academic institutions. Her passion stems from her deep admiration for researchers whose work fosters discoveries to tackle today’s challenges, from cancer and heart disease research to leading-edge robotics. Anna utilizes her strengths in comprehensive planning, client communication, and design and construction team management to translate clients’ needs into exceptional research environments. As part of the AIA Minnesota Board of Directors, Anna advocates for inclusive culture in the architectural profession.

PaviElle French is the circulation director and equity, youth outreach, and operations at AIA Minnesota. She is a co-staffer of both the Equity, Diversity, and Inclusion and Architecture in the Schools committees and works closely with the CCI Planning Team. She is also an interdisciplinary artist and composer hailing from Rondo, a historically Black neighborhood in St. Paul. She is an Emmy Award winner, Sage Award for Dance winner, American Composers Forum Grant recipient and also a McKnight Award Fellow.
profession where design responsibility comes much later in one’s career. The session will explore how competitions have shaped the voices of emerging designers, and how the designers have leveraged the output of these efforts for different purposes in their architectural career.

Thomas Fisher, Assoc. AIA, is a professor in the School of Architecture, director of the Minnesota Design Center, and former dean of the UMN College of Design. A graduate of Cornell University in architecture and Case Western Reserve University in intellectual history, he was the editorial director of Progressive Architecture magazine for almost 15 years and was recognized in 2005 as the fifth most published architect writer in the U.S. He has written or edited 11 books, written over 60 book chapters or introductions, and authored over 450 articles in professional journals and major publications. Tom will serve as moderator of this session.

Michael Hara, AIA, has worked on a range of award-winning arts and cultural projects at multiple scales, both in Minnesota and around the nation. His design work has been published locally, nationally, and internationally in online publications, print journals, and books. Most recently, he won the 2019 Ralph Rapson Traveling Study Fellowship.

Aishwarya Karunanidhi, International Assoc. AIA, LEED AP BD+C, is an architectural intern at Alliance. She earned a Master of Architecture from the Illinois Institute of Technology. While pursuing her Bachelor of Architecture degree at SRM University in India, she worked as an intern architect while studying and as a training architect after graduation. She has participated in several conferences, including the World Architecture Festival held at Singapore. At Alliance, she is a co-chair of the in-house Equity, Diversity, and Inclusion Committee as well as the in-house Design Guild Committee. She received the 2019 Beverly Hauschild-Baron Leadership Fund Scholarship and was also one of the five finalists of the 2019 MAF Ralph Rapson Traveling Study Fellowship.

Katie Myhre, AIA, CID, LEED AP, is an associate with Snow Kreichl Architects. Katie’s background allows her to take a multifaceted approach to the design process. She holds a Bachelor of Fine Arts in interior design from Iowa State University and a Master of Architecture and Ecological Design Certificate from the University of Oregon. Her work on the Sonoma Residence with Alchemy Architects was honored in 2016 with an AIA Minnesota Honor Award and in 2018 with an AIA Small Project Award. Katie was awarded the Cavin Family Traveling Fellowship in 2019, a Fellowship established to nurture design thinking in architecture and promote a further understanding of resource sustainability in the world through self-directed travel.

D3-76.
Considerations for Building Design and Operations in Schools Post-COVID-19
Sponsored by Designer Specialty Products

Schools are facing the challenges of getting students and teachers back to the classroom amid a variety of concerns from across the community. The “how” is an intimidating proposition and one of unknown costs or impacts. How are “in the trenches” leaders in education, architects, and engineers providing a vision and tools for safeguarding students in the short and long-term?

Kylie Fisher has been the facilities and safety coordinator for Eden Prairie Schools since 2014. Prior to his employment with Eden Prairie Schools, he held the title of field superintendent with a construction management firm. He received a degree in secondary education and taught middle school social studies for four years. This unique background provides him with the ability to understand the needs of teaching staff and the requirements of building operations, maintenance, and construction. Kylie’s current responsibilities include management of the district’s health and safety program, construction projects, and pandemic response.

Kathy Miller is the finance director at Westonka Public Schools and also serves Equity Alliance MN, Achieve Language Academy, and Watershed High School. She has been a Minnesota public school business manager for the past 30 years and truly enjoys the profession. Kathy is a native of Iowa and holds a Bachelor of Arts of degree in accounting and business management.

Troy Miller, AIA, educational planner and architect for LHB, has programmed, planned, and designed education projects for over 35 years. His experiences and expertise have provided him the opportunity to work with over 100 school districts from coast to coast. Troy works with districts on improving building operations by finding ways to upgrade systems and reduce energy costs.

D3-75.
Worthy Curricula: Some Reflections on Architectural Education

Given an unfolding, global reckoning with racism and the built environment, this presentation is a personal reflection on the idea of a worthy architectural education, and in particular, on the idea of a worthy curriculum. Prompted, in part, by the murder of George Floyd in Minneapolis this past summer, schools of architecture in the United States, Canada, and abroad have begun to respond to student- and alumni-initiated calls to action. These are directives and demands to deliberately and more fully engage with architecture and urbanism’s disciplinary and professional complicity in structures of systemic racism. How might we engage with these prompts in a way that may allow for the emerge of a worthy curriculum?

Ozayr Saloojee is an associate professor at the Azrieli School of Architecture and Urbanism in Ottawa, a co-director of the Carleton Urban Research Lab (which focuses on cities, water, and equity), and cross-appointed faculty at the university’s Institute for African Studies. Born and raised in Johannesburg, South Africa, he has taught in Canada, Europe and the U.S. He completed his B.Arch and post-professional M.Arch (Theory and Culture) at Carleton University and his doctoral work at the Bartlett School of Architecture at University College London. His research, teaching, and academic interests include a focus on politically contested terrains and infrastructure through the intersections of architecture, landscape, cultural-geographies, and geo-imaginaries, and has included sites in the Great Lakes, South Africa, Turkey, and the Middle East. His work explores themes and questions of equity, infrastructure, water, post-coloniality, and alternative urban and landscape futures.
David Williams, PE, FPE, sustainable specialist, LHB, is a LEED accredited, licensed mechanical and fire protection engineer with 40 years of design experience. He focuses on energy performance and building operations and maintenance by providing building maintenance planning, asset preservation, LEED consultation, energy modeling, life cycle cost analysis, and commissioning.

5:00 p.m.–5:30 p.m.

D3-77.
Closing Session

An open opportunity for attendees to share their takeaways and highlights from the conference.

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