

FRAMEWORK

2020 Engineering Excellence Awards Issue



One successful program is the Women in Engineering development series, which heads into its fifth year on a high note, with speakers Wendy Nemitz, Nemitz Enterprises, and Jamie Claire Kiser, Zweig Group, each drawing nearly 100 attendees.



Building a Modern, Representative Workforce

As the diversity of the engineering workforce increases, the American Council of Engineering Companies of Minnesota (ACEC/MN) is taking steps to support and expand opportunity for the engineering profession. From planning events that address important topics, to starting new committees, to volunteering at conferences and schools, ACEC/MN members are working hard to help build a modern, representative workforce.

Created in 2015, the Women in Engineering Series helps support and foster workforce diversity in the engineering profession by providing a place where issues facing women in engineering can be analyzed and better understood, where new outlooks and techniques can be shared, and where women who are looking to connect with their peers in the field can network and converse.

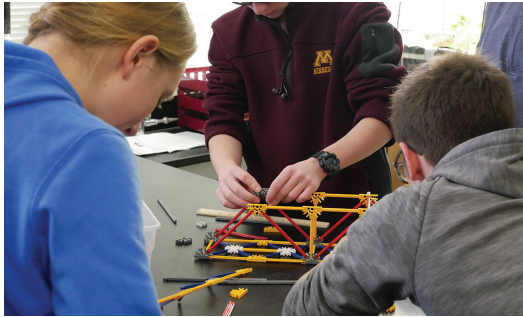
A presenter in the series since its inception, Wendy Nemitz, kicked us off in October with “Resiliency: Habits of Body & Mind that Sustain Us.” This event put the focus on the life side of work-life balance, helping attendees to explore a wider perspective of themselves and what they need to be successful and healthy in their lives.

To accommodate high attendance, this year’s Women In Engineering events have been hosted by Braun Intertec at their Minneapolis office. Kaitlin Thell Ouverson, PE, Project Engineer at Braun Intertec, has participated in planning sessions for the series and commented, “It has been a great opportunity to team with ACEC/MN on the Women in Engineering series. Braun Intertec has been growing their Empower Women group, and these speakers help reiterate the need and challenge of companies to create a community supportive of attracting, developing, and retaining women leaders.”

Jamie Claire Kiser joined the series for the first time this year. Her presentation, “ElevateHer: A Discussion of Survival in the AEC industry,” was so popular that registrations had to be capped so as not to overload the available space. The audience was on the edge of their seats as Ms. Kiser shared additional challenges that she faced as a woman in the engineering industry, interwoven with data from thousands of national survey responses collected by Zweig Group that illustrate larger dynamics in the field. Her plans for ElevateHer include bringing together a national cohort in 2020 to improve the engineering industry and address the unique challenges that women still face when working in this profession.

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Building a Modern, Representative Workforce (cont.)



Students enjoying the Engineering Week activity ACEC/MN members provided during their classroom visits



MNSEA Members Ricky Kirchner and Greg McCool accepting their NCSEA's Young Member Group of the Year Award



ACEC/MN Emerging Professionals and ASCE Younger Members Bowling Event

Deborah Reider, ACEC/MN Board Member and Principal in Charge at AKF's Minneapolis office, had this review: "ACEC/MN's Women in Engineering presentations are always events that I look forward to attending, not only because they are informative, but also inspiring to see so many amazing women in engineering in one location. In particular, Jamie Claire Kiser's ElevateHer presentation was eye-opening regarding current AEC demographics and how underrepresented women are. It reinforced my responsibility to advocate and support the younger generation in our industry and hopefully have a positive impact."

ACEC/MN and Minnesota Structural Engineering Association (MNSEA) committees provide energy and ideas for enhancing and embracing diversity in the profession. The ACEC/MN Workforce Development Committee has established partnerships where volunteers can make an impact on young inquisitive minds from all backgrounds, participating in events like STEMLink 2020, TechFest 2020, ScienceFest and Science Rocks. This committee is also exploring a partnership with Hospitality House Youth Development in North Minneapolis, an organization with this laudable mission: "By opening doors of opportunity, at-risk youth will be equipped to lead with integrity, broken families will be restored, and our community will be rebuilt."

MNSEA Committees also support diversity through the creation of a state chapter of the National Council of Structural Engineers Association (NCSEA) Structural Engineering Engagement and Equity (SE3) Committee. The MNSEA SE3 Committee hosted several events last year, including one that reviewed a nationwide survey of employee engagement and gender equity in the structural engineering industry, and another that trained staff on recognizing and addressing bias in the workplace.

Young members in ACEC/MN and MNSEA continue to help bring new energy into the profession. The MNSEA Young Member Group was awarded NCSEA's Young Member Group of the Year Award for the second time in three years; a win that comes with resources to help expand the group's efforts to introduce new people to the profession. The ACEC/MN Emerging Professionals host a wide variety of monthly events for engineers early in their careers including project tours, technical presentations, and social hours to educate and connect the next generation.

We continue to look for additional opportunities to enhance diversity in our profession and support every engineer as they strive to reach their personal and professional goals. The energy to accomplish that comes from our dedicated membership and volunteers, and our thanks goes out to you all.



Best Wishes To Dave On His Retirement

We want to thank David Oxley for his years of service and wish him well on his retirement. Dave has been an integral part of ACEC/MN for the last 37 years. He began with the association in 1982 as an assistant to his father Earl Oxley, who was the Executive Director at the time. In 1991, Dave took on the role of Executive Director.

During his tenure, he has assisted the board and staff with membership growth, committee expansion, legislative involvement, including the start of Capitol Consulting Day, stopping tax on professional services proposals several times, and several times, passing the certificate of merit and indemnification legislations, outreach to K12 and college students, the first website, and the transition from snail mail and a fax machine to email communications.

Many of us will fondly remember Dave as ACEC/MN historian, photographer, storyteller, techno geek, and engineering advocate. Many committee meetings would start with Dave saying "I don't know if I've told you this story or not, but..." or "Back in the day, everyone wore tuxedos and gowns to the awards gala and they danced the night away after the final award was given." How many times did Dave ask you to hold on for a minute so that he could get a picture? Or about the wonderful times he enjoyed with members while at the

national conferences (and something about what happens in Vegas stays in Vegas). Dave recently liked to share his camping experiences and related purchases. Did you know they make a GSI Vortex blender that doesn't require electricity?

Dave also served as mentor, father figure, friend and confidante to many. He graciously gave of himself to others - be it a ride home, a shoulder to cry on, a phone call to the hiring manager on behalf of a job seeker, help with a technology challenge, or words of encouragement. Early mornings, late evenings, and everything in between, Dave many times coordinated and participated in association and industry events such as monthly and annual meetings, seminars, MnDOT get togethers, Capitol Consulting Day, AIA Conference, Minnesota Transportation Conference, and more.

His contributions will always be valued and remembered. Dave's hard work, commitment, and dedication are worthy of admiration. He will be greatly missed. Dave, we wish you the best of luck in this next chapter and happy travels to you and Elie, wherever the road may take you!

Congratulations 2020 Grand Award Winners

AECOM

Smith Avenue Bridge (High Bridge) Redecking Project

Bolton & Menk, Inc.
Water Treatment Plant

Braun Intertec
Northern Stacks Brownfield Redevelopment

Braun Intertec, Loucks, & Populous
Allianz Field

HDR
C Line Bus Rapid Transit

KLJ

TH 149 Transportation Improvements

Michael Baker International
Winona Bridge Rehabilitation and Reconstruction

Short Elliott Hendrickson Inc.
Cypress Drive

Stantec
Old TH 14/Elm Avenue Reconstruction

TKDA
Pioneer Hall Expansion and Renovation
University of Minnesota

AECOM

Smith Avenue Bridge (High Bridge) Redecking Project

St. Paul, MN



AECOM partnered with the Minnesota Department of Transportation and Kraemer through the Construction Manager/General Contractor (CMGC) delivery method for the \$50M rehabilitation of the iconic High Bridge in St. Paul, MN. AECOM performed the structural evaluation, bridge analysis, load rating, repair recommendations, and final design to remove and replace the existing deck. The bridge, a multi-span tied steel arch bridge, rises 160 feet above the Mississippi River with a center arch span of 520 feet and carries 2 traffic lanes and sidewalks. The design work included the deconstruction and construction procedures for the removal of the post-tensioned tension tie and existing deck, and placement of the new deck and tension tie, while carefully balancing the loading on the steel arch and the approach spans.

Bolton & Menk, Inc.

Water Treatment Plant

Pipestone, MN



The City of Pipestone needed to address the high levels of chlorides, salty water parameters, dissolved solids, and elevated levels of radionuclides found in the treated wastewater to meet new discharge permit levels. The most economical choice was water softening. Pipestone's water treatment facility was vintage. Its building and adjacent water tower are on the state historical register, making updating difficult and cost prohibitive.

Bolton & Menk engineers worked with the city to upgrade the water supply and treatment system. The team helped the city access funding through the State of Minnesota Public Facilities Authority (PFA) and a Point Source Implementation Grant (PSIG). With a construction timeline of 18 months, the new water treatment facility was completed in summer 2019 on time and within budget.

Braun Intertec Northern Stacks Brownfield Redevelopment Fridley, MN

The Northern Stacks Brownfield redevelopment project transformed one of the largest and most contaminated Federal and State “Superfund” sites in Minnesota into a sustainable office/warehouse development that is a model for public/private partnerships, innovation in contaminated site cleanup and environmental protection.

This project required six years to complete over 1.7 million square feet of new and refurbished space in eight separate buildings. The work included retaining an existing tenant in 500,000 square foot of a 2 million square foot building while demolishing 1.5 million square feet of that building, constructing new walls, roofs, parking and drive areas and all utilities serving the operations of a major defense contractor.



Braun Intertec, Loucks, and Populous Allianz Field St. Paul, MN

Located in the heart of Saint Paul’s Midway neighborhood, Allianz Field was constructed on a 35-acre urban brownfield site. Project and site challenges included decades of contamination, significant coordination needs among numerous property owners and jurisdictions, and the need for innovative methods and materials to meet client and community expectations.

Braun Intertec, Loucks and Populous implemented state-of-the-art solutions by prioritizing constructability, cost savings and sustainability. Collaboration with multiple stakeholders and project partners facilitated innovative site remediation, green infrastructure, forward-thinking stormwater practices, and imaginative architectural solutions.

As a result of the combined efforts of the entire project team, Allianz Field is unique, environmentally-sensitive, intimate and fan-oriented, and a tribute to the sport of soccer and those who love the game.



HDR C Line Bus Rapid Transit Minneapolis, MN

In the 1950s, Minneapolis’ once-prominent streetcars were replaced by automobiles. The new C Line Bus Rapid Transit project restores the once-heralded public transit system with some of the country’s first 60-foot electric buses, while integrating Minneapolis’ complete streets policy and Hennepin County’s Penn Avenue community works vision. It connects Brooklyn Center to downtown Minneapolis — traversing the city’s most diverse neighborhoods and bringing better work, health care and shopping opportunities. The project’s success was achieved through the close stakeholder coordination throughout the 9 mile route and adaptive design to keep construction within the right-of-way. Completed on schedule and on budget, C Line provides a template not just for Metro Transit’s future BRT projects, but for transit agencies throughout the country.



KLJ

TH 149 Transportation Improvements

St. Paul, West St. Paul, and Mendota Heights, MN



KLJ transformed a 6.5-mile stretch of Trunk Highway 149 by implementing a Complete Streets approach, along with an upgraded pre-cast concrete drainage system with ADA-compliant grates and gutters, to enhance safety and mobility for all users. The corridor spans through urban, suburban, and rural sections of three cities and connects to St. Paul’s High Bridge. KLJ supported Minnesota Department of Transportation’s public engagement and stakeholder coordination efforts and facilitated utility relocation for 11 of 16 impacted utilities. The downtown portion of the corridor was designed to accommodate larger vehicles to accommodate public transit. KLJ employed a variable mill design and replaced a total of 130 ramps, 21,000 feet of curb and gutter, and 10,000 square yards of sidewalk to achieve a Complete Streets approach.

Michael Baker International

Winona Bridge Rehabilitation and Reconstruction

Winona, MN



The Winona Bridge Rehabilitation and Reconstruction project represented the most complex historic truss bridge rehabilitation ever undertaken in Minnesota. For this project, a new procurement method – Construction Manager/General Contractor (CMGC) – was used for the first time by MnDOT as well as any DOT in the Midwest. The three-span cantilever through truss structure was retrofit with steel plating and high-strength steel bars to remove the existing load posting and provide internal redundancy to the existing fracture critical members while maintaining the character of the historic structure. Ultimately, the project was massively successful, providing expert oversight, comprehensive coordination and state-of-the-art solutions through the efforts of MnDOT, Michael Baker International and Ames Construction. The project was completed five months ahead of schedule and extended the bridge’s service life by 50 years.

Short Elliott Hendrickson Inc.

Cypress Drive

Baxter, MN



The Cypress Drive improvements project was a complex project that included constructing and expanding the roadway to four lanes and adding multiple roundabouts. SEH worked with the City to provide improvements that included stormwater facilities, municipal utilities, street lighting, on-road bike lanes and separated multi-use paved trails. SEH provided creative solutions to meet the challenges of the roadway that included roundabouts at two major intersections and a queue cutter traffic signal at the new at-grade railroad crossing. The biggest project challenge was the at-grade railroad crossing. This required dedicated personnel who understood the railroad’s requirements and provided coordination to include the railroad crossing with signals and preemption. The resulting improvements met the City’s goals and improved safety for all modes of travel.

Stantec

Old TH 14/Elm Avenue Reconstruction

Waseca, MN

When MnDOT transferred jurisdictional authority of Old TH 14 / Elm Avenue to Waseca County, the City of Waseca hired Stantec to lead the reconstruction of the critical transportation and utility corridor that bisects the community. The Elm Avenue pavement was deteriorated, bike and pedestrian facilities were substandard, and numerous drainage and utility deficiencies existed. Stantec's work transformed Elm Avenue from an outdated roadway to a modern 3.35-mile multi-modal concrete roadway, including more than 100 ADA-compliant pedestrian ramps, and completely upgraded underground utilities all while maintaining through sensitive areas of Waseca. The project resulted in a transportation and utility corridor that will safely and reliably serve the community for many decades to come.



TKDA

Pioneer Hall Expansion and Renovation, University of Minnesota

Minneapolis, MN

The renovation of the University of Minnesota's 90-year-old Pioneer Hall preserved a significant amount of its Georgian Revival-style exterior but posed complex challenges for the project design team. The residence hall's limited floor-to-ceiling heights restricted the space for new MEPFP systems, incomplete historical documentation necessitated extensive field testing, and preserved building sections required modification to meet current building codes. Innovative engineering solutions, careful design coordination, and sustainable development practices made it possible to preserve Pioneer Hall's characteristic elements and sense of place in the University's history while creating a modern student community that celebrates the important role of social engagement in academic success and student retention. The \$104.5 million project, completed ahead of schedule in August 2019, increased the building size by more than 40%.



**Congratulations to
Braun Intertec, Loucks, and Populous
on receiving the 2020 Grand Conceptor Award
for the Allianz Field project!**

GRAND AWARD WINNERS

Anderson Engineering, Inc.

Fargo National Cemetery

Fargo, ND



The new Fargo National Cemetery is the first VA National Cemetery Administration’s (NCA) “Rural Initiative” cemetery developed from raw land with the goal to provide burial services for Veterans and their families in the Red River Valley. NCA partnered with the Anderson team to develop approximately 5,900 burial options including casketed and cremation sites, a committal service shelter, memorials, monuments, and a flag assembly area on only 4.8 acres. As a “Rural Initiative” National Cemetery, many challenges were addressed by the Anderson team including utility feasibility studies, storm water harvesting for irrigation, sub-surface drainage design, security, and maintenance for operations. Due to immediate burial needs for the community, the project was fast tracked, completed on time and operational. The new National Cemetery will serve the burial needs for Veterans in the surrounding rural community, their spouses and eligible family members and ensure that no veteran will be forgotten.

Bolton & Menk, Inc.

Cultural Center

Prior Lake, MN



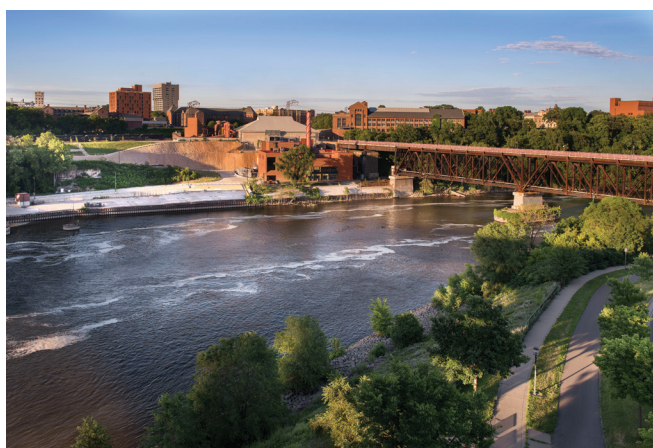
The Shakopee Mdewakanton Sioux Community have struggled to retain their culture since being displaced by the Indian Removal Act of 1830. After being recognized as a Native American tribe by the US government in 1969, and establishing a new home near Prior Lake, the community has been steadily growing. As the community has grown, so has the need for a place where community members can gather to attend meetings or events.

Bolton & Menk developed concepts and construction documents integrating the cultural center building into a larger campus site containing water features, restored prairie areas, and gathering spaces for educational, recreational, and interpretive opportunities. The SMSC has a beautiful facility that they are proud of and have completely moved into.

Bolton & Menk, Inc.

Penn American Stormwater Storage

Bloomington, MN

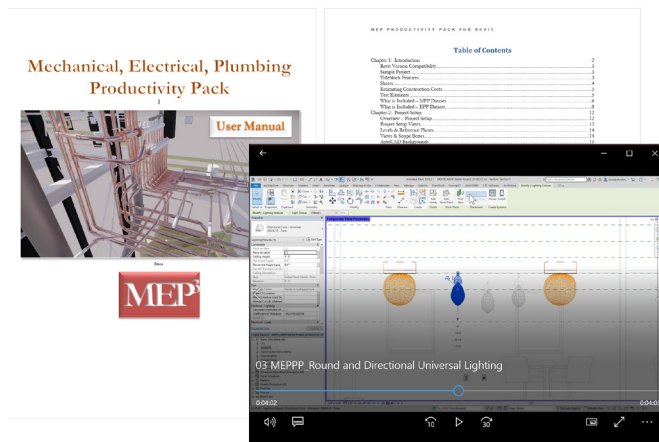


The Penn American Stormwater Storage project was initiated to serve the flood-prone area southwest of the I-35/I-494 interchange in Bloomington, Minnesota. During even moderate rainfall, runoff overwhelmed the existing storm sewer system and was stored above ground, within the streets and adjacent properties, until the pipe system could attenuate the flow. Because the area is fully developed, there is limited safe storage above ground before flood damage can occur. The most viable solution was to increase the outfall storm sewer capacity, including:

- An underground conveyance and storage system including 700 feet of dual 16-foot-by-9-foot box culverts
- 2,600 feet of 144-inch diameter corrugated metal pipe
- 900 feet of 72-inch RC pipe
- More than 12 acre-feet of underground storage

Gausman & Moore Associates, Inc. and LHB, Inc. Mechanical Electrical Plumbing Productivity Pack (MEPPP) State of Minnesota

The Mechanical Electrical Plumbing Productivity Pack (MEPPP) is a project like no other in our industry. Two separate firms independently started an initiative to improve productivity of the in-house design team using the strengths of the Autodesk Revit modeling tool. Gausman & Moore and LHB saw the wisdom in joining forces to create something that is revolutionizing the industry. To date, over 300 firms are using the MEPPP to automate the modeling process, increase discipline coordination, gain access to real-time manufacturer data as the basis of design, and improve building life cycle performance. The MEPPP is an engineering feat that takes us from “what’s possible” to “it’s here now.” This unique partnership created a unique solution that benefits the entire industry.



HGA Trailhead Building at Wirth Parkway Minneapolis, MN

Built collaboratively between the Minneapolis Park & Recreation Board and the non-profit Loppet Foundation, the Trailhead Building at Theodore Wirth Park is a 14,200 square-foot mass timber recreational building that creates “a shared passion for year-round outdoor adventure in the Minneapolis area, focusing on underserved youth and families.”

The mass timber framing creates an expressive architectural presence that serves the Foundation and Park Board’s programming needs while blending seamlessly with the wooded parkland site at the gateway to the Nordic Ski and mountain bike trails. Since opening in 2018, the building has quickly become a community destination and was even recently chosen as the host site for the International Ski Federation 2020 Cross Country Ski World Cup—a validation of its local and international success.



Houston Engineering, Inc. Lake Park Bridge Replacement Lake Park, MN

The Lake Park bridge reconstruction project replaced a previous timber structure with a new 112-foot-long, 50-foot-wide, three-span concrete bridge. This bridge is vital for the residents and businesses of Lake Park, as it provides the only above-grade crossing in town. The railroad otherwise splits Lake Park in two, separating businesses from residents in the south and the key highway of US 10.

This new bridge was designed with several improvements over the previous structure, including improved vertical clearance, the ability to accommodate a possible third main line track, and a new separated shared-use path for non-motorists. A single lane of traffic was maintained throughout construction by constructing the bridge in two portions.



HONOR AWARD WINNERS

Kimley-Horn

Centennial Lakes Pedestrian Bridge Replacement

Edina, MN



The Centennial Lakes Park Pedestrian Bridges project in Edina revolves around new bridges that provide ADA-compliant crossings of the pond that had not existed since the park’s inception. Convenient access for park maintenance equipment and the provision of increased flood storage of the pond are additional benefits created by this project. Beyond the functional benefits the bridges provide, their design complements the park aesthetic and they seem to grow organically out of the landscape, appearing to be original elements of the park. Their design includes natural stone headwalls and pylons, graceful arches, decorative railings, accent lighting, and 500 feet of meandering access trails. The bridge structure type was selected so it could be built with small construction equipment to minimize park impacts.

Kimley-Horn

County Road 19 and Cottage Grove Ravine Regional Park Improvements

Cottage Grove, MN



Kimley-Horn led the preliminary and final design of over \$6 million in improvements to Cottage Grove Ravine Park and the surrounding roadway infrastructure on County Road 19 and East Point Douglas Road. This project addressed intersection traffic safety concerns along County Road 19, reinvigorated Cottage Grove Ravine Regional Park, provided storm water control for regional growth in Woodbury and Cottage Grove, and created an improved gateway into Cottage Grove from the trunk highway system. The project was a shining example of the power of multi-agency collaboration as Washington County worked in partnership with the City of Cottage Grove, the South Washington Watershed District, and MnDOT to plan and deliver this large-scale area-wide project.

Michaud Cooley Erickson

Land O’Lakes Headquarters Expansion & Renovation

Arden Hills, MN



The \$80 million mission of Land O’Lakes expanding and renovating their global headquarters was to stop leasing office space in remote locations and consolidate their 850 employees back onto their main campus. With their previous headquarters built in 1980, they would need to create a 155,000 square foot expansion and a renovation of the existing 295,000 square foot, four-story corporate spaces.

Michaud Cooley Erickson (MCE) provided full mechanical, electrical, plumbing, and fire protection engineering services for the new Land O’ Lakes headquarters campus. MCE modeled the entire building in IES-VE software to assist in choosing energy efficient HVAC systems. With a LEED Platinum certification, the MEP systems are designed 51 percent more energy efficient than ASHRAE performance standards.

Nelson-Rudie & Assocs, Inc.

Great Park Ice & FivePoint Arena

Irvine, CA

The Great Park Ice & FivePoint Arena is a new premier \$104 million community ice and sports facility located within Orange County's Great Park.

The 280,000-square foot facility features four indoor ice rinks: two 600-seat and one 2,500-seat NHL regulation sheets, and one 600-seat Olympic size sheet. The facility includes figure skating spaces, training facilities with a dryland training area, plunge pools, weightlifting rooms, locker rooms, 30,000-square foot lobby, concessions areas, bar/restaurant, retail, meeting rooms, fireplace and outdoor recreational areas. The complex is the new training facility for the NHL Anaheim Ducks and the U.S. Figure Skating teams. Also offered are public skating, broomball, youth hockey tournaments, figure skating and curling leagues. The project is seeking Leadership in Energy and Environmental Design (LEED) Silver certification.



Short Elliott Hendrickson Inc.

Duluth International Airport Runway 9/27 Reconstruction

Duluth, MN

SEH provided planning, environmental, engineering and construction services to reconstruct the two-mile Runway 9/27 at the Duluth International Airport (DLH) for the Duluth Airport Authority (DAA). The team secured \$6.6 million through the State Legislature to provide the local share to leverage 90% funding from the Federal Aviation Administration (FAA). The runway reconstruction project included a collaborative process and extensive stakeholder engagement.

Project outcomes included new 13 inch concrete pavement, partial reconstruction of connecting taxiways, and new taxiway and runway end geometry on the east end to improve pilot situational awareness. Electrical improvements included new inset runway centerline lighting, touchdown zone lighting and edge lighting, Precision Approach Path Indicators (PAPIs) on the west end and a new Airfield Lighting Control Management System (ALCMS).



Short Elliott Hendrickson Inc.

Falls International Airport Terminal

International Falls, MN

The SEH team provided design and construction of a new 25,000 sq. ft. terminal at Falls International Airport. The previous terminal was built in 1978 and was 14,000 sq. ft. The terminal is important as it provides commercial airline service to keep community businesses operational and connected to the rest of Minnesota and the world. It also includes a customs processing facility for international customers. The project is unique in that the newly designed terminal was built on the existing airport site. This required two phases of construction to keep the terminal fully operational. The new terminal is a single level to improve ADA accessibility and includes a jet bridge. The entire project was designed to meet Minnesota's B3 Sustainable Building (SB) 2030 Energy Standards.



Short Elliott Hendrickson Inc.

Pinecone Road

Sartell, MN



SEH provided engineering services for a complex, high-profile \$7.5 million reconstruction project on Pinecone Road that was initiated due to a new high school opening in the City of Sartell. Improvements included expanding the road from a two-lane rural to a 45 ft. wide urban section with off-road bike lanes. Features of the project included two roundabouts and a 3/4 access intersection to accommodate high school traffic and improve safety along this corridor. SEH provided right-of-way acquisition and partnered with the high school on a number of items that included stormwater ponding, pedestrian and trail connections and wayfinding signage. The reconstructed road met the City’s and School’s goals of providing safe travel for the new high school location.

Stonebrooke Engineering, Inc.

CSAH 7 (Division Street) Corridor Study and Design

Bemidji, MN



The CSAH 7 (Division Street) corridor is approximately 1.5 miles long and is located just southwest of the Bemidji City limits. Stonebrooke was selected by Beltrami County to prepare a traffic study and model for the entire corridor and to provide preliminary and final design services. After preparing and completing a safety evaluation of the corridor, roundabouts were selected as the most feasible intersection control method for the area. Stonebrooke then designed and implemented the first ever roundabouts in the City of Bemidji, at four key intersections along the corridor. In addition to providing Traffic Engineering, Preliminary and Final Design services, Stonebrooke also participated in informational public meetings and provided roundabout education/outreach services, to ensure the community was included and educated on this intricate project.

Ulteig

Waterville Substation - Foundation Replacement Utilizing Helical Piles

Waterville, MN



The transformer at the Waterville (MN) Substation was overloaded, with aged and deteriorating equipment. The requested project was an electrical upgrade to replace the existing 69-4.16 kV transformer with a new 69-23.9 kV transformer. Initial site visits, however, revealed foundations in severe need of repair/replacement from concrete deterioration and poor soil conditions—adding complexity to the project.

The conditions led Ulteig to a technology rare for the utility industry in our region: helical piles. Advantages included the ability to replace/repair foundations on an existing, energized structure, allowing new equipment stands to be mounted directly to the helical pile while minimizing outages. Using helical piles, Ulteig successfully navigated multiple site and weather challenges, delivering a project that will provide safe, reliable energy for decades to come.

WSB

Fallon Avenue Overpass
Monticello, MN

The Fallon Avenue Overpass project is known as a bridge that connects the community. Situated along both sides of I-94, the Fallon Overpass serves as a major local connection in the city that improves transportation, economic development opportunities and public safety.

The project was conceived over two decades ago to provide a local gateway for growth and economic development for the community. Since 1994, the city of Monticello has experienced significant growth, and the Fallon Avenue Overpass provides a critical alternative crossing over I-94 to alleviate heavy traffic on Trunk Highway 25, which has approximately 40,000 vehicles per day, and CSAH 18. The over \$9 million project included several project partners and required coordination many stakeholders.



WSB

Trunk Highway 22 Victory Drive
Mankato to Mapleton, MN

Along the shady stretches of Minnesota Highway 22, known locally as "Victory Drive," 1,170 trees were planted to honor veterans from Beauford, Mankato and Mapleton. The trees represent the veterans who gave their lives in World Wars I and II.

The Minnesota Department of Transportation prioritized the total reconstruction of 11 miles of Victory Drive over two construction seasons, beginning in 2017. WSB was selected to complete preliminary and final design of the highway and the replacement of the bridge over the Cobb River, a popular canoeing route. During the project's public outreach program, WSB's Landscape Architectural Group was given the unique opportunity to work with the community to gather perspectives on how best to perpetuate the highway's living veterans memorial for generations to come.



- Ken Ashfeld, PE**, City Engineer, City of Maple Grove
- Chris Ayika PE, PMP**, Senior Project Manager, Xcel Energy
- Mike Barnes, PE**, MnDOT Metro District Engineer, MnDOT
- Deborah Besser, PE, PhD, ENV SP**, Civil Engineering, Chair, Center for Engineering Education, Director, University of St. Thomas
- Jeannine Clancy**, Assistant General Manager, Technical Services, Metropolitan Council
- Don Elwood, PE**, Director of Transportation Planning & Engineering, City of Minneapolis
- Jim Grube, PE**, Public Works Strategic Initiatives Director, Hennepin County
- Adrian T. Hanson, PhD, PE, BCEE**, Professor (Environmental), University of Minnesota Duluth
- Jack Hunter**, Retired Construction Specialist, Ryan Companies
- Bridget Rief, PE**, Director of Airport Development, Metropolitan Airports Commission
- David Sahli, PE**, Municipal Wastewater, Principle Engineer, Minnesota Pollution Control Agency
- Eric West, AIA**, AIA MN President, Project Director, Interior Architects
- Tim Worke, CEO**, Associated General Contractors



Thank You Judges!

HONOR AWARD WINNERS & AWARD JUDGES

Congratulations to these Outstanding Students



Oxley Scholarship
Mary Kloos
 Minnesota State University, Mankato
 Civil Engineering



Josh Comstock
 University of Minnesota, Duluth
 Civil Engineering



Bob Rosene Scholarship
Derek Huston
 University of Minnesota, Twin Cities
 Civil Engineering, Master's



Juan Lopez
 University of Minnesota, Twin Cities
 Civil Engineering



Terry Swor Scholarship
Kurt Krautman
 University of Minnesota, Twin Cities
 Environmental Engineering



Liam Mullen
 University of Minnesota, Twin Cities
 Civil Engineering



Don Stormoe Scholarship
David Ray
 University of Minnesota, Twin Cities
 Civil Engineering, Master's



Kyle Rachel
 University of Minnesota, Twin Cities
 Civil Engineering, Master's



Cameron Kruse Scholarship
Ali Stone
 University of Minnesota, Twin Cities
 Geoengineering, Master's



Emma Reinart
 University of St. Thomas
 Civil Engineering



Melissa Langowski Scholarship
Sheridan Henderson
 University of Minnesota, Twin Cities
 Civil Engineering



William Zunker
 University of Minnesota, Twin Cities
 Civil Engineering



Kimley-Horn Scholarship
(Golf Tournament Title Sponsor)
Kyle Kucharski
 University of Minnesota, Twin Cities
 Civil Engineering, Master's



Alliant Scholarship
(Golf Tournament Dinner Sponsor)
Kristina Brierley
 University of Minnesota, Twin Cities
 Civil Engineering

*Thanks to our supporters
 and contributors,
 a record 14 scholarships
 totaling \$33,500 were awarded
 this year.*

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WSB

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Barr Engineering Co.
Boulay, CPAs & Advisors
Chartwell Financial Advisory, Inc.
The Coleman Law Firm, LLP
HIWAY Federal Credit Union
Kimley-Horn
SRF Consulting Group, Inc.
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Michaud Cooley Erickson
Sambatek

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ACEC/MN Welcomes Jonathan Curry as New Executive Director



The American Council of Engineering Companies of Minnesota (ACEC/MN) is pleased to announce the hiring of Jonathan Curry, MPA, as its new Executive Director, based on his success in building member engagement, increasing revenues, managing government relations programs, and his strong track record of financial stewardship. ACEC/MN board members, including Past President Dan Larson, CEO of American Engineering Testing, Inc., and Board President Sirish Samba, President & CEO of Sambatek, are enthusiastic about Jonathan joining the organization and providing the next generation of management.

“We have been fortunate to have great leadership at ACEC/MN,” Samba stated. “I am excited for this chapter as we move forward with a new executive director who will bring fresh ideas and bold, new initiatives to our association.”

The transition team, led by Dan Larson, conducted an extensive national search to identify the successful candidate. Larson remarked, “Jonathan was clearly the candidate who best fit the needs of the organization into the future. We look forward to working with him and our member firms to achieve our strategic objectives and effectively promote the business of engineering in Minnesota.”

With nearly a decade of experience in leadership roles for member associations and non-profit organizations, Jonathan has directed federal and state advocacy programs by building relationships at all levels of government; Congress, the White House, State Governors, the Environmental Protection Agency (EPA), the Federal Aviation Administration (FAA), the US Department of Transportation (USDOT), the Federal Highway Administration (FHWA), DOT and state environmental agencies. He has also led industry-wide marketing campaigns and managed educational programming and webinars in his previous roles.

Jonathan brings an impressive educational background to ACEC/MN, having completed a Bachelor of Art in Political Science from Luther College in Decorah, Iowa, and a Master’s in Public Administration, with a focus on transportation policy and funding, from Hamline University, St. Paul, MN. Outside of work, he loves spending time with his wife Sara and two amazing kids, Amzie (4), and Barrett (9 months). Jonathan also enjoys golf, watching movies and traveling, with some of his favorite destinations being Washington DC, Door County Wisconsin and Colorado. Please reach out to Jonathan at jcurry@acecmn.org or (952) 593-5533.