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guide to  
Rochester  
landmarks

## Lasting Legacy

The life and work of  
Emmanuel Masqueray

DIRECTORY OF  
ENGINEERING FIRMS

ROBERT MACK  
WINS GOLD MEDAL

A VISIT TO  
STUDIO HIVE





simple is the new

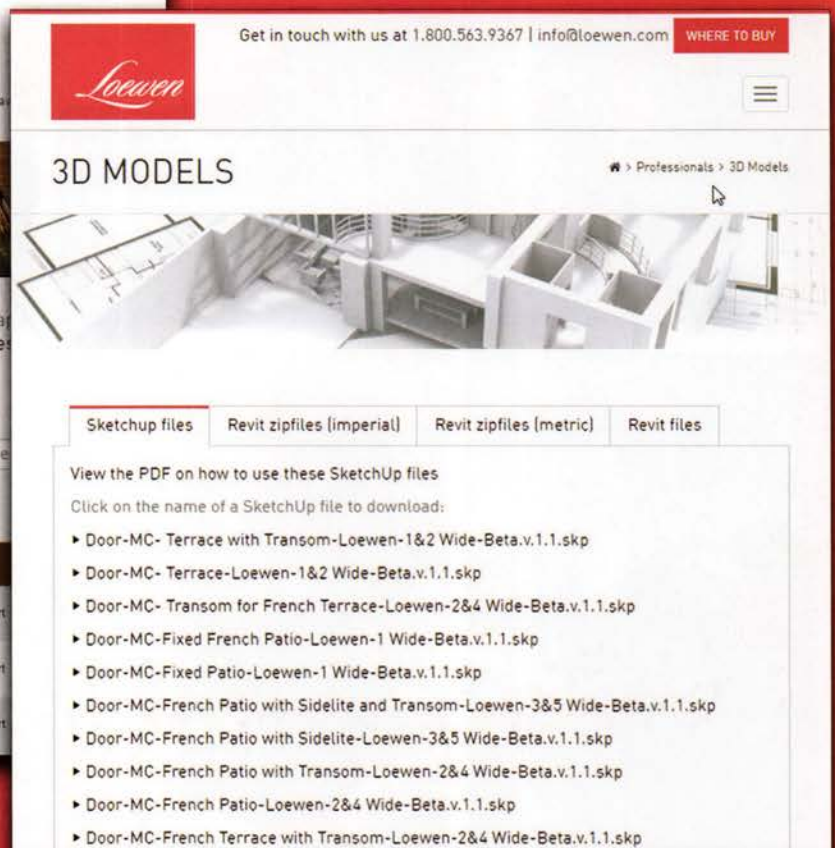
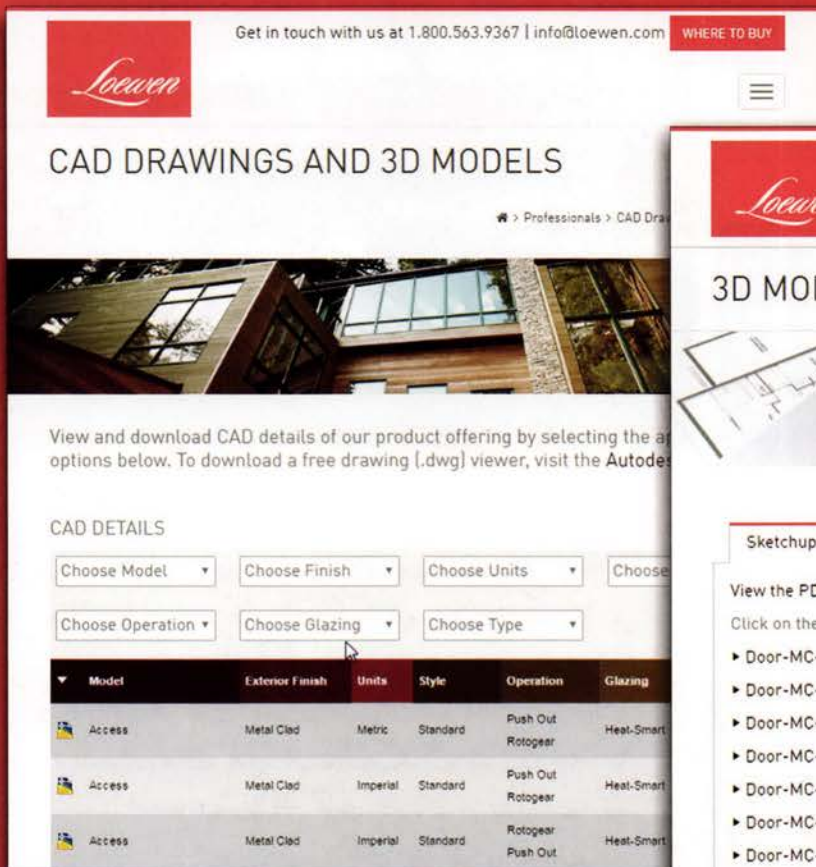


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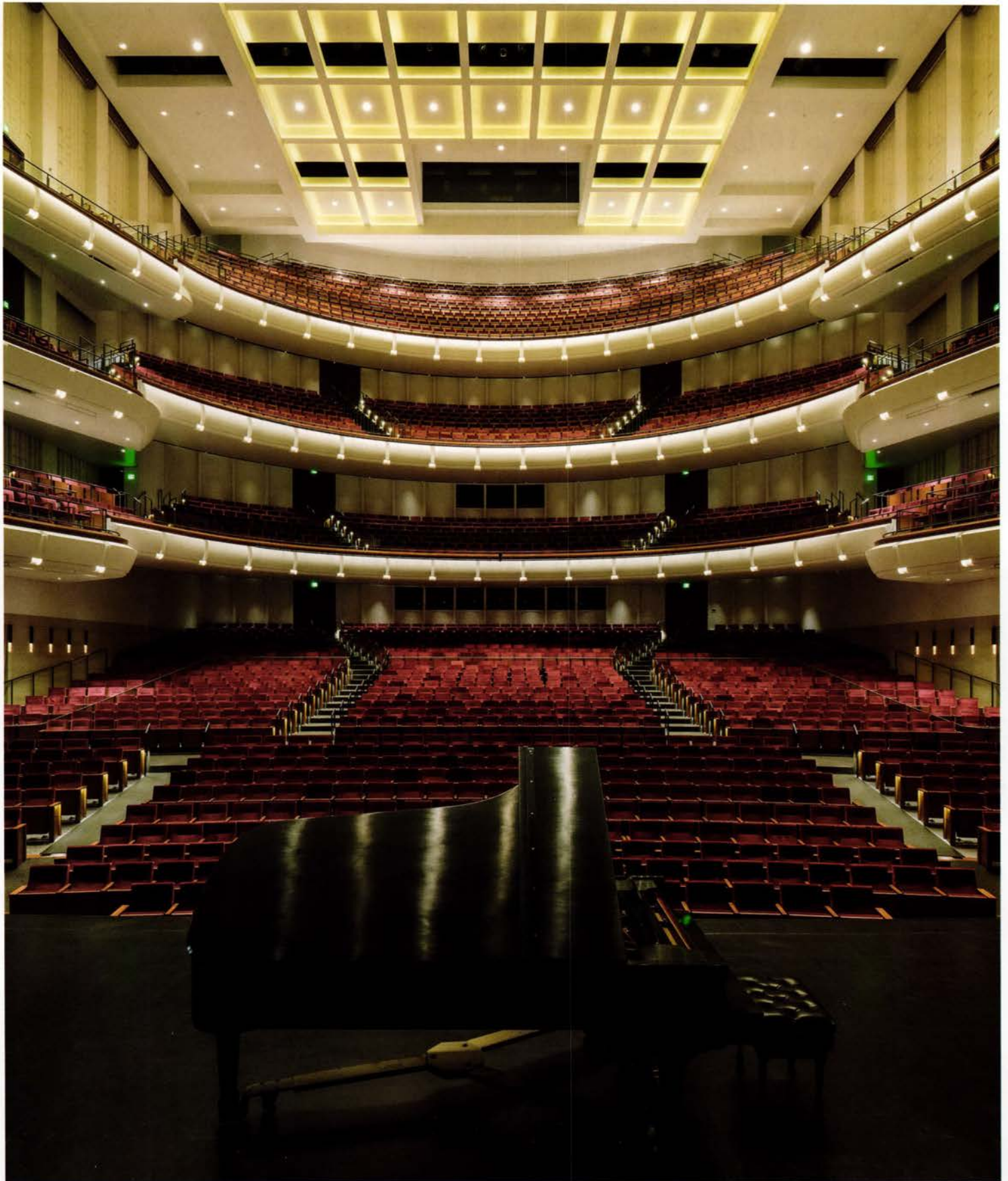
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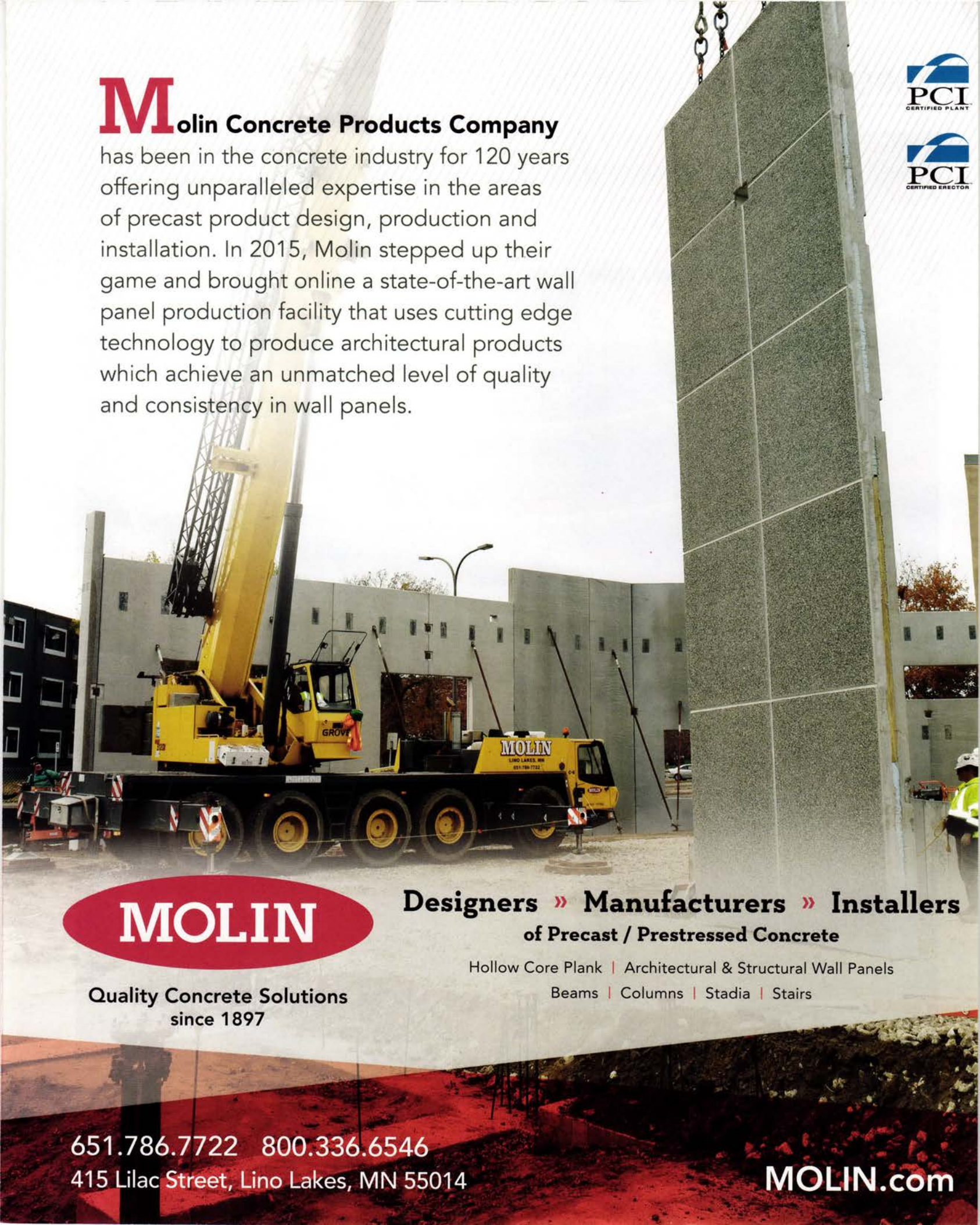






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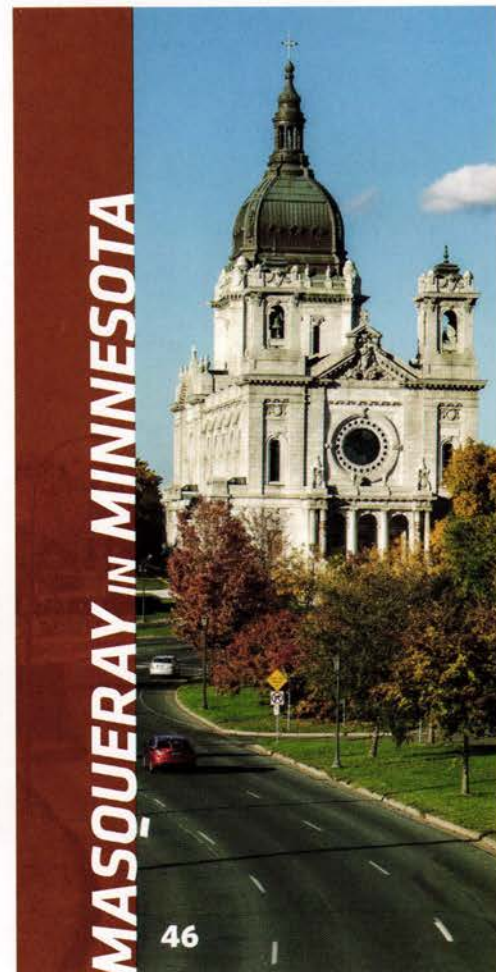
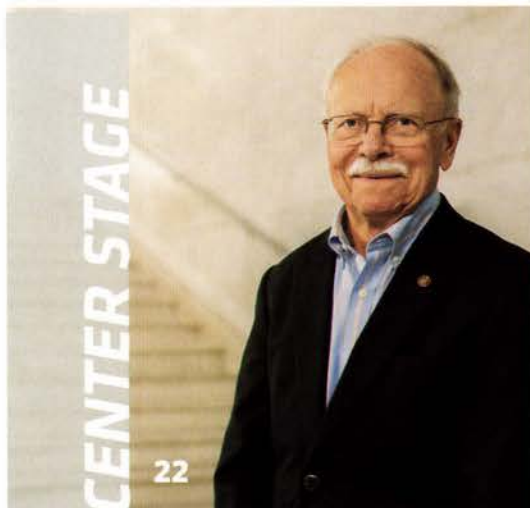




# ARCHITECTURE MN

Architecture MN is a publication of  
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Architecture MN, the primary public outreach tool of the American Institute of Architects Minnesota, is published to inform the public about architecture designed by AIA Minnesota members and to communicate the spirit and value of quality architecture to both the public and the membership.



## Features

### 22 *Center Stage: Preservation Pioneer*

By Linda Mack

For the first time, the American Institute of Architects Minnesota awards its biennial Gold Medal to an architect who specializes in heritage conservation: Robert Mack, FAIA, of MacDonald & Mack Architects.

### 27 *Designs for Designing*

Minnesota's preeminent product maker and the Minneapolis branch of a global architecture and engineering firm create dynamic new design studios.

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page 28  
By John Reinan

**3M Design Center**  
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### 40 *Rochester: A Design Tour*

By Joel Hoekstra  
Photography by Brandon Stengel

Minnesota's third-largest city is home to landmark buildings in a wide range of styles and settings. Eero Saarinen's breathtakingly blue IBM Manufacturing and Training Facility, a trio of iconic Mayo Clinic towers, and well-preserved Usonian houses by Frank Lloyd Wright only scratch the surface of Rochester's rich architectural heritage.

### 46 *Masqueray in Minnesota*

By Joel Hoekstra  
Photography by Morgan Sheff

On the centennial of the death of Emmanuel L. Masqueray, we celebrate the two cornerstones of the French architect's enduring legacy in the Twin Cities: the Cathedral of St. Paul and the Basilica of St. Mary.

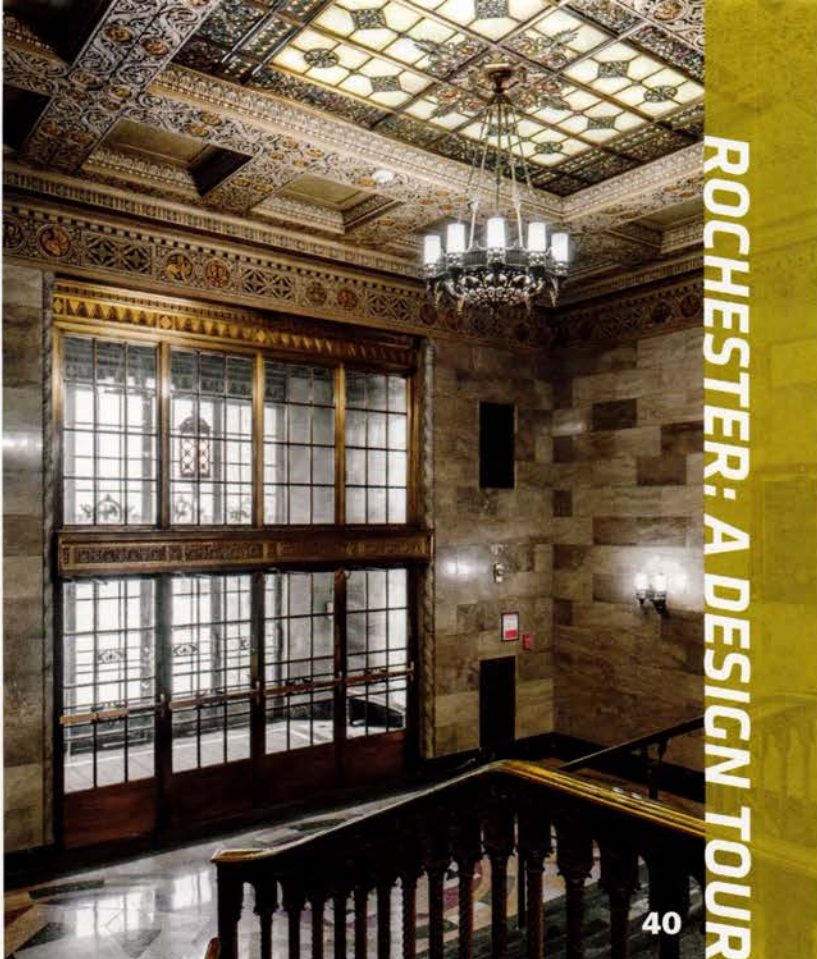


#### ON THE COVER

Cathedral of St. Paul  
St. Paul, Minnesota

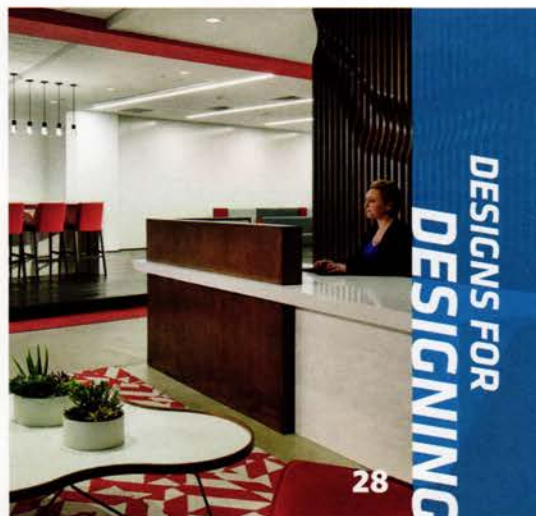
"It was a pleasure getting reacquainted with one of Minnesota's architectural icons," says photographer **Morgan Sheff**. "Emmanuel Masqueray's Cathedral of St. Paul is such a familiar sight, and yet each time I visit I notice new and interesting details. Early morning light on the Rockville granite is spectacular."





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BY AMY GOETZMAN

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BY FRANK EDGERTON MARTIN AND BRUCE N. WRIGHT

Two new books explore how aerial views and skyway systems, respectively, have shaped our experience of the world.

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BY J.C. BUCK

A shimmering concert hall and conference center bejewels the waterfront in Reykjavik, Iceland.

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BY THOMAS FISHER, ASSOC. AIA

The sharing economy continues to change how we access goods and services. Soon, it will reshape our cities.

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BY MORGAN SHEFF

Light and shadow accentuate the soul-stirring beauty of a midcentury religious landmark in Maplewood.

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MacDonald  
& Mack Architects'  
Robert Mack explains  
his past work on  
Minneapolis City Hall.

CHAD HOLDER



## Design and History

Acceptance speeches are often heartfelt or humorous, or a winning combination of the two. But they are rarely thought provoking. So it was quite a moment when pioneering preservation architect Robert Mack, FAIA (page 22), concluded his acceptance speech for the 2016 AIA Minnesota Gold Medal in December with a fervent call to action:

On a more personal note, I'm excited by how the broader field of architecture is fully recognizing the benefits of restoring and reusing historic structures, and acknowledging the work involved in keeping these structures and stories alive. Their value is not just as a static history lesson but as a way of fostering a collective conversation, a dialogue about our past and our future, our identity, and our values.

Right now, that dialogue is more important than ever. So, in closing, I want to issue a challenge—to myself, to preservationists, to architects, to all of us. We need to expand our conversations about both design and history. When preservationists talk about honoring the past, we need to grapple with what stories we're telling and what we're overlooking. And we need to work harder to highlight underrepresented voices.

When architects take on projects and develop designs, we need to pay more attention to the true impact of our work. We need to focus not on how to create flashy design that gets shared on social media but on the day-to-day, grassroots efforts that combat inequality and take the lead in creating a more just and vibrant world. We need to remember that a bright future—for our society in general and the fields of architecture and historic preservation in particular—requires us to embrace diversity and support and listen to the broad chorus of experiences and voices.

Mack's words are especially meaningful to us in the wake of a turbulent and divisive year in American politics. With a new year upon us, *Architecture MN* accepts Mack's challenge to "expand our conversations" and engage a greater diversity of voices. Buildings and public spaces have a unique way of embodying our past values and our aspirations for the future, so we've got plenty to talk about.

### INTERACT & CONNECT



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#### The evolution of the Walker Art Center

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#### A conversation with top young architects

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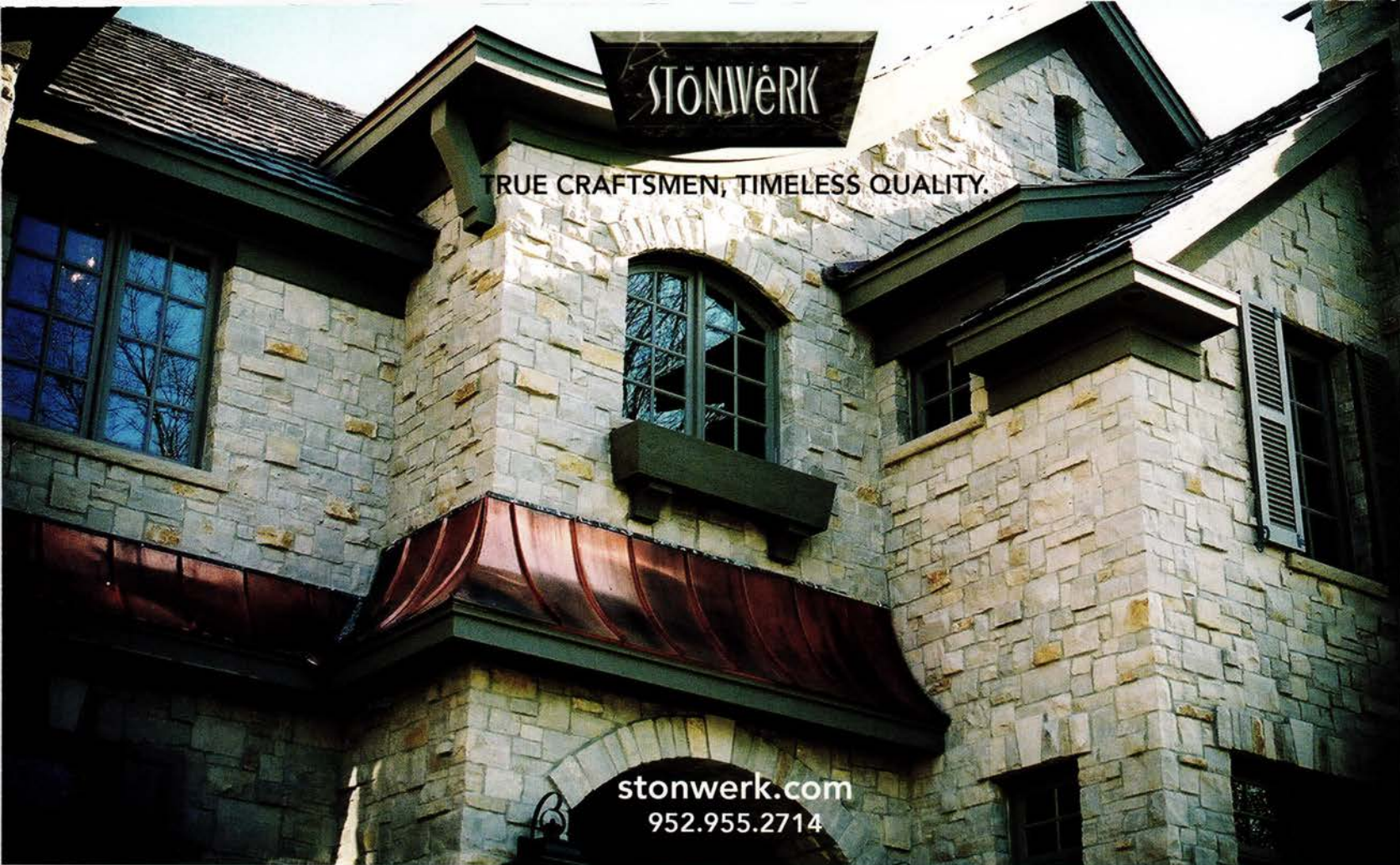


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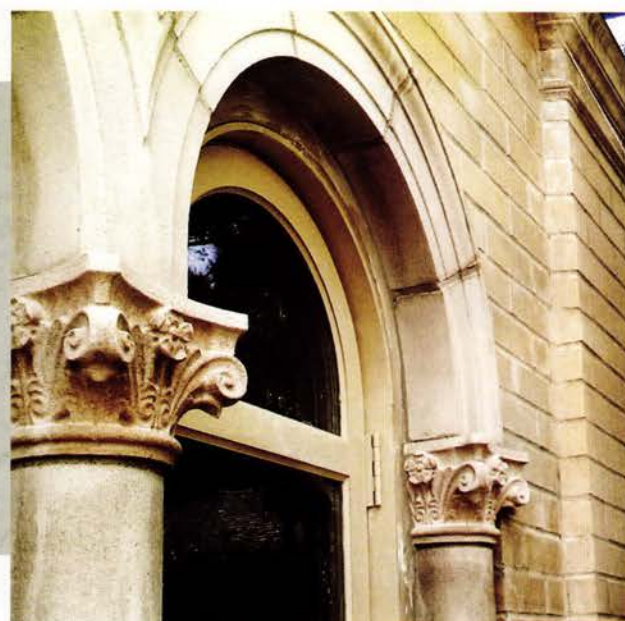
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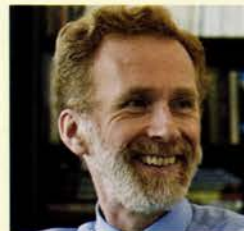
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SAINT PAUL WINTER CARNIVAL



### ICE-CARVING DISPLAYS

The mini ice palace (bottom right) won't be the only frozen form in Rice Park. Each year, artists wielding chainsaws and hand tools populate a chilly sculpture garden with a variety of fanciful creations. Noteworthy characters, fantastical beasts, and shimmering temporary visions beckon visitors. A royal throne made of ice welcomes mere plebeians to sit upon it—for just a moment. But don't act on that thought. And don't lick any metal poles, either.

SAINT PAUL WINTER CARNIVAL

JANUARY 26–FEBRUARY 10 [www.wintercarnival.com](http://www.wintercarnival.com)

# SNOW CENTRAL

The **St. Paul Winter Carnival**—a weird and wonderful celebration of Minnesota hardiness and creativity—offers a range of frosty revelry, much of it centered on Rice Park, with its rich architectural surroundings

SAINT PAUL WINTER CARNIVAL



*The Grande Day Parade marches down West Fifth Street, in front of Landmark Center.*

### CARNIVAL PARADES

How festive is the Winter Carnival? It takes not one but three parades to express it all. The first, the **Moon Glow Pedestrian Parade** (January 26), is an opportunity for the general public to promenade the streets of downtown St. Paul with luminaries on hand. If the walking alone doesn't keep you toasty, hot air balloons will lend some additional warmth. The **King Boreas Grande Day Parade** (January 28) is the big daylight-hours pageant, during which the newly crowned king, his court, and a chilly flotilla of bands and floats blow through the city, spreading winter across the land.

But every winter comes to an end: The **Vulcan Victory Torchlight Parade** (February 4), featuring more bands and floats, celebrates the defeat of the cold as Vulcanus Rex triumphs over Boreas and heralds the return of the light. Fire overpowers ice, and a fireworks show follows the parade. All three processions end at Rice Park.

ROBERT FERDINANDT



### MINI ICE PALACE

Not all architecture is built to last. In 1886, the Winter Carnival drew large crowds with a spectacular, 106-foot-high ice palace built from 25,000 blocks of ice and illuminated with electric globe lights. It was one of the first buildings in the city to use electricity. This year, Rice Park will feature a mini ice palace built from 400 blocks of ice. It's not the massive castle some of us remember from long-ago winters, but this sparkling, translucent structure will still inspire wonder—while it lasts.

—Amy Goetzman





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# Ryan Siemers

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AND SKYWAY SYSTEMS ON HOW  
WE VIEW AND EXPERIENCE OUR WORLD

**BARNSTORMING  
THE PRAIRIES: HOW  
AERIAL VISION SHAPED  
THE MIDWEST**

By Jason Weems  
University of Minnesota  
Press, 2015

A century before drones boosted architectural and landscape photography into the sky, "aerial vision" transformed the way Americans saw much of their country. For generations, the Midwest was viewed as slow to change, provincial, and isolated. But, starting with hot-air balloons in the 19th century, aerial mapping and photography opened up new horizons, reframing the Midwestern landscape as a dynamically interconnected system of railroads, street grids, canals, and power lines—all at a massive scale.

Aerial mapping and photography opened up new horizons, reframing the Midwestern landscape as a dynamically interconnected system of railroads, street grids, canals, and power lines.

Illustrated with 19th-century bird's-eye views, airplane route maps, and Grant Wood paintings, *Barnstorming the Prairies* shows how the invention of flight couldn't have been better timed to shape modern painting, silent-era filmmaking, and even the planning of New Deal suburbs. In a time of satellite mapping, we take this revolution for granted. Yet the rise of aerial perspective remains one the most important paradigm shifts in American landscape history; it created an entirely new picture of who we are and where we live.

—Frank Edgerton Martin



**PARALLEL CITIES: THE  
MULTILEVEL METROPOLIS**

By Jennifer Yoos and Vincent James;  
edited by Andrew Blauvelt  
Walker Art Center, 2016

A dense volume on everything one could possibly want to know about cities that exploit multilevel pedestrian spaces, *Parallel Cities* is an urban designer's ideal reference. The book brings architecture's role in shaping these complex living spaces into focus, and it enlightens on multiple levels as well: Text is heavily footnoted; every spread is packed with gorgeous photos or illustrations; and captions are set tight along with footnotes. In fact, some of the smaller notes in this rich compendium might be best read with the aid of a magnifying lens.

Enthralling are the book's many icons of the multilevel pantheon—Futurist Sant'Elia's visionary "La Città Nuova" (1914), Le Corbusier's mega Paris plan (1929), the Japanese Metabolist movement (1960s), John Portman's hyperspace hotels (1970s), and, more recently, New York City's High Line linear park. Much is made of speculative, utopian dreams (see above and Fritz Lang's *Metropolis* [1927], Archigram's "Plug-in City" [1964], and R. Buckminster Fuller's megastructure cities [1968–70]). For designers of all stripes, this volume is the ultimate Baedeker guide for exploring cities past, present, and future.

—Bruce N. Wright, AIA




Bottom, left to right:  
Proposed redesign of  
a one-kilometer section  
of Hua Qiang Bei Road  
in Shenzhen, China, by  
WORKac and ZhuBO; Hong  
Kong, podium level, 2013.









# Harbor Light

Harpa, an award-winning waterfront concert hall and conference center in Reykjavik, Iceland, is the embodiment of the motto "If you build it, they will come." The intricately geometric glass-and-steel structure, designed by Danish firm Henning Larsen Architects in collaboration with Danish-Icelandic artist Olafur Eliasson, almost didn't happen. In the 2008 global financial crisis, the entire development plan collapsed. The complex sat half-finished, and, according to locals, there were proposals to turn the shell of the building into a national monument representing the economic crash.

Fortunately, the government decided to fund the completion of the hall. For a few years, Harpa was the only active construction site in all of Iceland. Today, Iceland's economy is booming, and Reykjavik's architectural jewel draws throngs of tourists and locals alike. The plaza outside the building often plays host to a large group of skateboarders.

Like most who visit Iceland, I was there to explore the awe-inspiring landscape of fire, ice, and water. But I found myself returning to Harpa every chance I could. I was mesmerized by how the light played on the collage of clear and color-coated glass during the day, and how the building came to life at night, with its spectacular light shows.

—Photographer J.C. Buck



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# Cities and the Sharing Economy

By Thomas Fisher, Assoc. AIA

In the second of a series of three interconnected essays on the 21st-century city, the director of the Minnesota Design Center explores the growing impact of the sharing economy on urban form

Cities reflect their economies. The 19th-century industrial economy gave rise to large metropolises, as people flocked to urban centers to live close to mills and factories. The 20th-century consumer economy, in turn, spawned suburbs, which absorbed the output of our mass-production assembly lines, with a settlement pattern that required everyone to own almost everything.

The 21st century has given birth to a very different economy. Whatever you call it—the sharing, collaborative, peer-to-peer, or on-demand economy—this new form of digitally based commerce has allowed people to access goods rather than own them, to live closer together rather than farther apart, to enjoy meaningful experiences rather than forgettable environments, and to engage in flexible work rather than nine-to-five jobs.

To some, this new economy may seem placeless in the sense that we can now access information and work remotely almost anywhere in the world. But the sharing economy has shown that place and proximity matter—a lot. Consider the world's largest taxi company, Uber, or the world's largest hotelier, Airbnb, companies that didn't exist a decade ago. They leverage the excess capacity of our built environment by filling the many empty seats in our cars and empty bedrooms in our houses, and their success depends upon these assets' location, close to customers or in places people want to stay.

At the same time, this economy overturns many of the assumptions that underlie the ways in which we regulate buildings and cities. Our building and zoning codes, for example, categorize structures according to their use and prohibit certain functions in certain places. The new economy blurs these distinctions. Airbnb, for example, uses residential property



*The sharing economy may spur more people to live and work in denser and more functionally diverse neighborhoods.*

for a commercial purpose, building on a long-term trend in which people now run almost 60 percent of small businesses from their homes.

Municipal finance also faces a challenge in the new economy. Many cities receive a sizable amount of revenue from parking fees, gas taxes, and traffic tickets. But in a future in which the

especially millennials in metropolitan areas, use ride-sharing services in lieu of owning cars, the demand for parking will begin to drop. Add to that the growing demand for urban living and the increasing cost of urban land, and we will continue to see the development of surface parking lots for higher and better uses.

**Analysts at PricewaterhouseCoopers forecast that five new sectors of the sharing economy (including car sharing and music and video streaming) could equal the overall sales of five traditional rental sectors (including car and equipment rental) by 2025.**

car companies become autonomous-vehicle manufacturers in partnership with ride-sharing companies like Uber and Lyft, those municipal revenues will dramatically shrink as shared, driverless cars no longer need to park, no longer use gasoline, and no longer violate traffic laws.

That leads to the question: How will cities change, physically, as a result of this economic transformation? Let's start with parking, the bane of every design team and building owner or developer. As growing numbers of people,

A more complicated picture arises with parking ramps. As the demand for parking wanes, many sloped ramps will have no other use and face demolition well before the end of their useful life. To avoid that, cities need to require that all ramps built from now on have flat floors, ample floor-to-floor heights, and adequate loading capacity, with centrally located vertical-circulation cores and easily removable sloped sections, to accommodate alternative uses a decade or two from now.

>> continued on page 55





MacDonald & Mack Architects'  
Robert Mack, FAIA,  
is honored with the 2016  
AIA Minnesota Gold Medal  
for his long and influential career  
in historic preservation

BY LINDA MACK

GROWING UP IN PENNSYLVANIA, ROBERT MACK LOVED TO PLAY IN HIS FAMILY'S OLD BARN—and try to figure out how it was put together. For his birthdays, he wanted to go to historic sites, not amusement parks.

Now working half time at the firm he and partner Stuart MacDonald, AIA, founded 40 years ago, Mack still loves figuring out how old buildings were put together. This past fall, AIA Minnesota recognized his sterling career in historic preservation by awarding him the Gold Medal, the organization's highest award given to an individual.

"Bob's humility and quiet personality stand in contrast to the magnitude of his impact—as an architect, firm principal, educator, and community leader," wrote the Gold Medal jury. "It is time for Bob to be recognized for all he has done to mentor this profession, to grow our industry's expertise in preservation and sustainability, and to ensure that our nation's historic structures are enjoyed for generations to come."

"Bob was one of the founders of historic preservation in Minnesota," says Chuck Liddy, FAIA, a principal at Miller Dunwiddie Architecture, another Minnesota firm known for preservation. MacDonald agrees: "His impact on preservation is incalculable."

His meticulous research and sensitive eye have enhanced the state's historic landscape, from the Governor's Residence in St. Paul to Minneapolis City Hall, from Split Rock Lighthouse to Redeemer Missionary Baptist Church. The restoration of that church—a Prairie School landmark in South Minneapolis—was a seminal moment in Minnesota preservation: It garnered Minnesota's first Honor Award from the National Trust for Historic Preservation.

But Mack's impact extends beyond Minnesota. His career began with an assignment at the National Park Service researching and writing *The Secretary of the Interior's Guidelines for Rehabilitation*, one of the precursors to *The Secretary of the Interior's Standards for the Treatment of Historic Properties*. Mack explains: "In 1974, Congress passed a law for tax breaks for people restoring buildings as long as they conformed to standards set by the Secretary of the Interior. But there weren't any." *The Secretary of the Interior's Standards* are still the litmus test for preservation nationwide.

Mack also cowrote *Preservation Briefs #1 and #2*, providing technical advice to architects; these documents grew his reputation as a masonry expert. Two summers ago, he was asked to advise on masonry issues plaguing the Going-to-the-Sun Road in Glacier National Park in Montana. "The engineer wanted to reline the

CHAD HOLDER

1966

Robert Mack meets  
Stuart MacDonald at the  
University of Minnesota



# PRESERVATION PIONEER



**IN A CAREER SPANNING MORE THAN 40 YEARS,** Robert Mack has worked on over 500 properties on the National Register of Historic Places and over a dozen National Historic Landmarks. He has an especially long connection to Minneapolis City Hall (shown here).

Cowrites *Preservation Briefs* #1 and #2

1975

Founding board member of Preservation Alliance of Minnesota

1982

1976

MacDonald & Mack Architects formed

"His impact on preservation is incalculable."

—STUART MACDONALD, AIA





Mack's projects range from rebuilding the windmill at the President James A. Garfield estate (above) to refurbishing Minneapolis City Hall's rotunda (right).

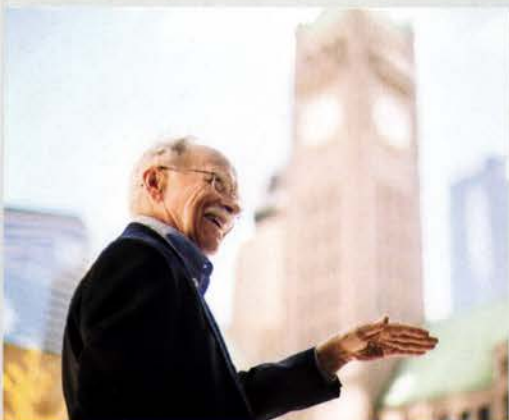


Mack's sensitive renovation of the Prairie School Redeemer Missionary Baptist Church garnered Minnesota's first National Preservation Award.

JERRY MATHIASON



JERRY MATHIASON



CHAD HOLDER

"Teaching gave me a chance to share my passion. It's also a great employee recruiting tool."

—ROBERT MACK, FAIA



1990

Elected to the AIA College of Fellows

Redeemer Missionary Baptist Church wins National Trust for Historic Preservation Honor Award

2001

1989

Begins teaching graduate-level courses on preservation technology and philosophy at the U

1999

Steve Murray Award (career achievement) from the Minneapolis Heritage Preservation Commission

2011

MacDonald & Mack receives AIA Minnesota Firm Award



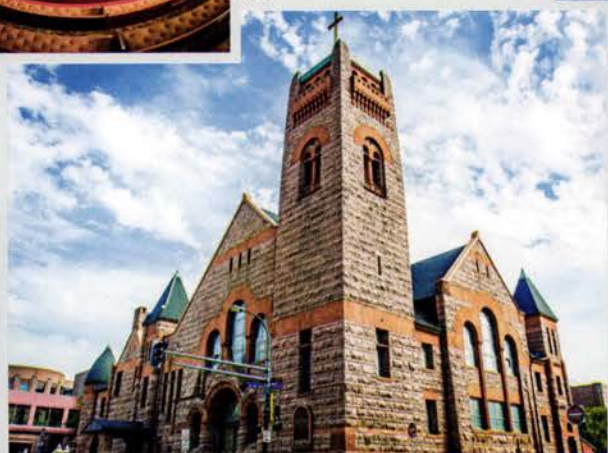


COURTESY OF WESLEY METHODIST CHURCH  
INTERIOR PHOTO BY ERIC VEST PHOTOGRAPHY

*Split Rock Lighthouse on Minnesota's North Shore is likely MacDonald & Mack's most visited restoration project.*



COURTESY OF MINNESOTA HISTORICAL SOCIETY, PHOTO BY JOE MICHL



*Mack's loving restoration of Wesley United Methodist Church (above) revived a classic Warren Hayes design. Restoration work at the estate of President James A. Garfield (left) gave Mack an opportunity to research 19th-century construction techniques.*



NATIONAL PARK SERVICE

Mack's meticulous research and sensitive eye have enhanced the state's historic landscape, from Split Rock Lighthouse to Redeemer Missionary Baptist Church.

tunnels," says Mack. "We found instead that the original drains just needed to be cleaned."

Other projects beyond Minnesota include restoration work on U.S. president James Garfield's estate outside Cleveland and historic surveys of 34 army munitions plants around the country. "It was a chance to learn new technology and travel to Oklahoma and West Virginia and other places I'd never been," says Mack.

Along with his preservation advocacy and his work at MacDonald & Mack Architects, Mack shaped new generations of preservationists by teaching a yearlong graduate course at the University of Minnesota School of Architecture for nearly a quarter-century. He also took students to Orkney, Scotland, to study Scottish architecture and approaches to preservation.

A Mack-led student trip to document the walled city of Baku, Azerbaijan, was even more ambitious. A World Heritage Site, the walled city was also on the UNESCO endangered list. "During our three-week visit, the Minnesota students did 80 percent of the street-by-street inventory, and the students there finished it," says Mack. "For this reason and others, Baku is now off the endangered list."

"Teaching gave me a chance to share my passion," says Mack. "It's also a great employee recruiting tool." Virtually all of MacDonald & Mack staff members are former students.

Does he have a favorite building? Yes: Wesley United Methodist Church, the Richardsonian Romanesque church next to the Minneapolis Convention Center. "I love the diagonal plan, with its excellent acoustics and sightlines," he says. What does he value most about his career in Minnesota? "The sense of camaraderie, both in preservation and in architecture."

The camaraderie was particularly strong in preservation. Consider that in the 1970s and 1980s, MacDonald & Mack's main competitor for preservation projects around the state was Miller Dunwiddie. "Bob and Foster Dunwiddie would drive to interviews together, do their interviews separately, then drive back together," Chuck Liddy warmly recalls.

This past summer Mack was surprised to learn that his firm had established the Robert Mack Fellowship for Heritage Preservation at the School of Architecture. Soon after came the announcement of the Gold Medal. Mack was pleased and characteristically modest: "In many ways, the award legitimizes preservation as architecture." **AMN**

Career Achievement Award  
from Preservation Alliance  
of Minnesota

2012

2016

AIA Minnesota  
Gold Medal, the  
organization's highest  
individual honor



Sterling sofa, \$1699; Sanders cocktail table, \$699; Glen rug, \$599.  
7010 France Avenue South, Edina  
[roomandboard.com](http://roomandboard.com)



# Room&Board



**TWO NEW STUDIOS**—one for product design (left), the other for architecture (right)—serve as platform and display case for dynamic creativity. How? With loads of glass, clean lines, and a memorable mix of collaboration-friendly spaces. They even have a little living-room comfort to them. Little wonder that some of the employees prefer their office to home.



3M Design Center, page 32

HDR, page 28

**DESIGNS** for  
**DESIGNING**



*A coffee bar up front welcomes employees, clients, and other visitors to HDR's comfortably casual office on the Mayo Clinic Square skyway in downtown Minneapolis. More than 15,000 people pass the glassy studio every day.*

HDR



BY JOHN REINAN



**Amazing things can happen when a group of architects decides to step into the future.**

When the Twin Cities architecture studio of the global firm HDR moved into a St. Paul skyscraper a decade ago, "We looked like a really nice law firm," jokes vice president and managing principal Jim Thomson, AIA.

In January 2016, HDR made a jump across the Mississippi River to downtown Minneapolis—and a quantum leap into 21st-century office design. The firm's sparkling new space opens off a skyway in Mayo Clinic Square. With a

coffee bar up front, whiteboard walls covered with sketches and ideas, and nary a cubicle in sight, HDR's new Minneapolis studio exudes creative energy.

"It's been a game-changer for collaboration," says vice president and design principal Mike Rodríguez, AIA. "It has changed the way we work. People are actually talking to each other instead of IM-ing, emailing, and texting."

A key to the new space: Nobody has an assigned seat. Each day, employees have a new neighbor, exposing them to different projects, different

ideas, and different ways of thinking. In the old space, amid a sea of cubicles and private offices, "we had to sort of force ourselves to go to the whiteboard," says Rodríguez. "Now it's just natural."

Thomson says the studio carries a whiff of "back to the future," evoking the open rooms of drawing tables that were once a staple of the profession. "Now you can look over someone's shoulder," he says. "You can jump into a discussion based on what you see on someone's screen or on a whiteboard."

*"The Big Think" is an open collaborative space where ideas can hatch; it includes virtual-reality capability. Below: With no assigned workstations, employees keep their gear in lockers.*

The Minneapolis architecture studio of a global architecture and engineering firm fuels its own imagination with a winning blend of transparency, brand color, and technology





Clients are also energized by the environment, says Thomson. "I've never seen them so excited about coming into a space," he says. "They see our people creating things, and we can include them in that process."

A flexible gathering spot near the entrance, dubbed "The Big Think," is a critical locale for larger gatherings and brainstorming sessions. The space is equipped with virtual-reality capability, allowing designers and clients to walk through a concept and make changes on the spot.

Rodriguez likens the overall vibe to a coffee shop, a good reason for placing a generously proportioned coffee bar right up front. Depending on your mood, you can curl up in a cozy corner or plant yourself in the middle of the action. The space offers a range of seating options, from adjustable workstations to comfy couches to freestanding Brody WorkLounges.

After the firm decided to make its big move, there were some cold feet among the staff. It was a seismic change, and not everyone was sure they'd be able to adapt. A key moment

came at a staff meeting when Rodriguez held up his backpack and declared: "This is my office."

People got the point. And now they wonder why they ever doubted it.

Julie Robertson, a senior interior designer, admits she had her concerns about giving up a designated workstation. "It was actually liberating to purge everything," she says. "The new space is so fresh and invigorating for everyone. I wouldn't want to go back to where we were."

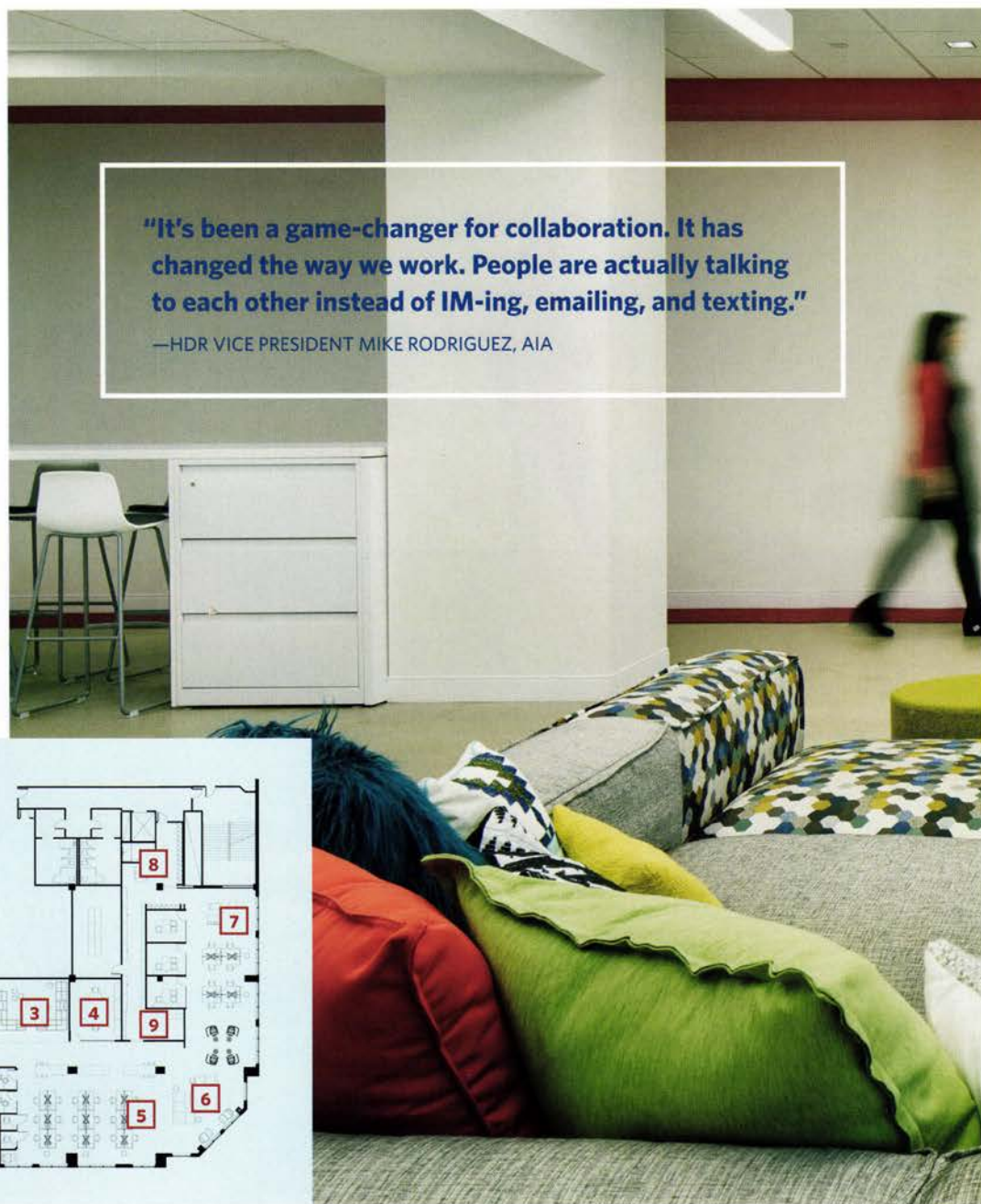
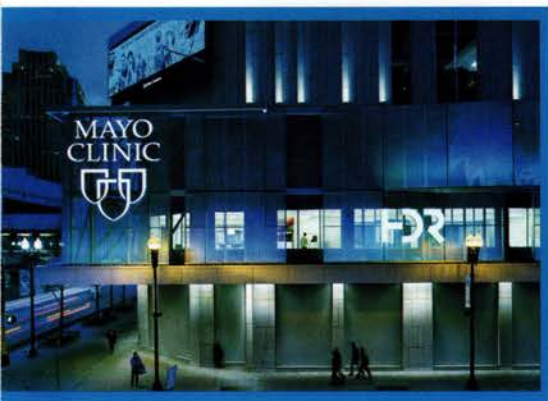
The firm also appreciates its newfound connectedness. More than 15,000 people a day pass by its glass wall. In the old building, says Thomson, "We were 19 floors up, and our connection to the world was an elevator to the food court."

The new space is about 40 percent smaller than the former office, giving up personal space for collaborative space. It's worked out just as everyone had hoped. "The staff has gotten a lot tighter," says Rodriguez. "It was a leap of faith, but now we wouldn't change a thing about it." **AMN**

**"It's been a game-changer for collaboration. It has changed the way we work. People are actually talking to each other instead of IM-ing, emailing, and texting."**

—HDR VICE PRESIDENT MIKE RODRIGUEZ, AIA

**Right: Each day, employees are free to choose from a variety of seating options, including ergonomic workstations and overstuffed sectionals.**



- 1 LOBBY/RECEPTION
- 2 HOSTING BAR
- 3 THE BIG THINK
- 4 THE RED ROOM
- 5 UNASSIGNED BENCH SEATING
- 6 THE LIVING ROOM
- 7 THE BLUE ROOM
- 8 LOCKERS
- 9 LIBRARY







*Some tongue-in-cheek humor is added with four small conference rooms labeled "Eeeny," "Meeny," "Miney," and "Mo." Meanwhile, Paul Bunyan keeps watch to make sure that designers think big.*



#### **HDR**

**Location:**  
Minneapolis, Minnesota

**Client:** HDR

**Architect:** HDR  
[www.hdrinc.com](http://www.hdrinc.com)

**Principal-in-charge:**  
James W. Thomson, AIA

**Project lead designer:**  
Mike Rodriguez, AIA

**Interior designer:** HDR

**Energy modeling:**  
Paulson Clark Engineering, Inc.

**General contractor:**  
Gardner Builders, Inc.

**Size:** 7,790 square feet

**Cost:** \$575,000

**Completion:** February 2016

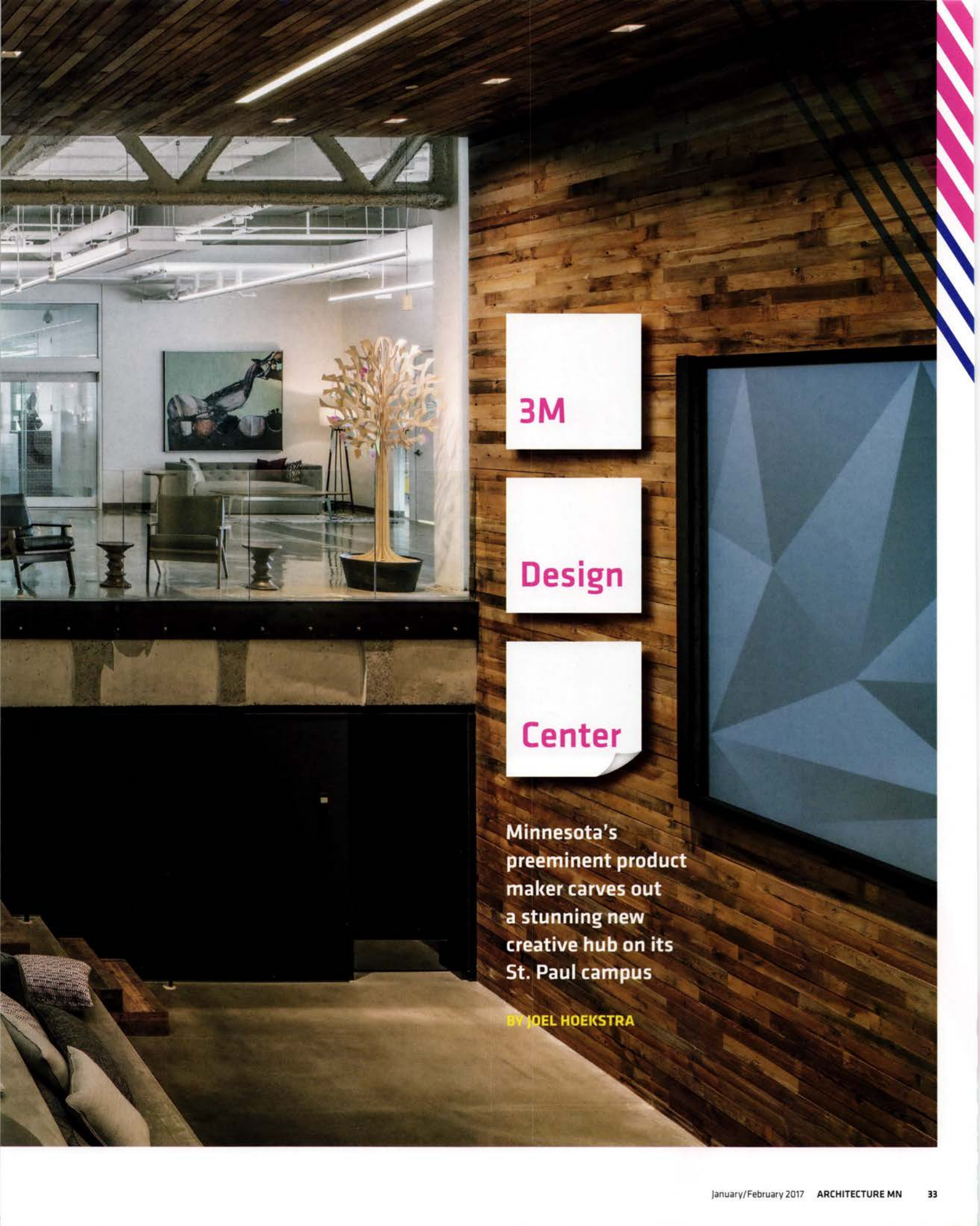
**Photography:**  
Courtesy of HDR Architecture, Inc.;  
©2016 Corey Gaffer





3M and MSR created a comfortable, informal presentation space—dubbed the Design Hive—by cutting through a concrete floor. Rustic wood accents lend warmth throughout the 38,000-square-foot design center.





3M

Design

Center

Minnesota's  
preeminent product  
maker carves out  
a stunning new  
creative hub on its  
St. Paul campus

BY JOEL HOEKSTRA





**AN ARGUMENT CAN BE MADE** that 3M has significantly altered the course of contemporary design with its Post-it Notes.

Visit nearly any advertising agency or startup venture and you'll find the sticky swatches plastered on desks, walls, files, and perhaps even the fridge. Every day, all around the globe, innumerable ideas are jotted, sketched, and preserved on Post-its, waiting to blossom into transformative businesses, buildings, books, and more.

Yet St. Paul-based 3M—which also makes sandpaper, adhesives, abrasives, optical films, electronic circuits, and car-care products—has struggled in recent years to win the attention of an increasingly design-focused public. Companies like Apple have blended technology and design in ways that excite consumers and build a brand, while 3M has largely focused on solid functionality.

**“People like being at home in their living room, and feeling comfortable and safe is key to unlocking creative ideas. The Dutch have a word, *gezellig*, that, loosely translated, means ‘cozy.’ I wanted the space to have that cozy feel.”**

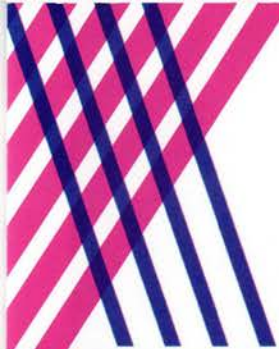
Eric Quint, 3M chief design officer





Top: The Design Hive, a communal table, and the Mille Lacs meeting room—one of three freestanding pods inspired by Dutch garden sheds. Above left: 3M chief design officer Eric Quint. Above right: The Minnetonka meeting room.





The design center features a wide array of collaboration-friendly seating options and several creative displays of 3M products.  
Bottom: The Vermilion meeting room.



### 3M DESIGN CENTER

**Location:**

St. Paul, Minnesota

**Client:** 3M Design

**Creative director:**

Eric Quint, IDSA

**Architect:** MSR Design

[msrdesign.com](http://msrdesign.com)

**Principal-in-charge:**

Josh Stowers, AIA

**Project lead designer:**

Rachelle Schoessler Lynn

**Interior designer:** MSR Design

**Energy modeling:**

Arup; Master Mechanical;  
The Weidt Group

**Landscape architect:**

Damon Farber Associates

**General contractor:**

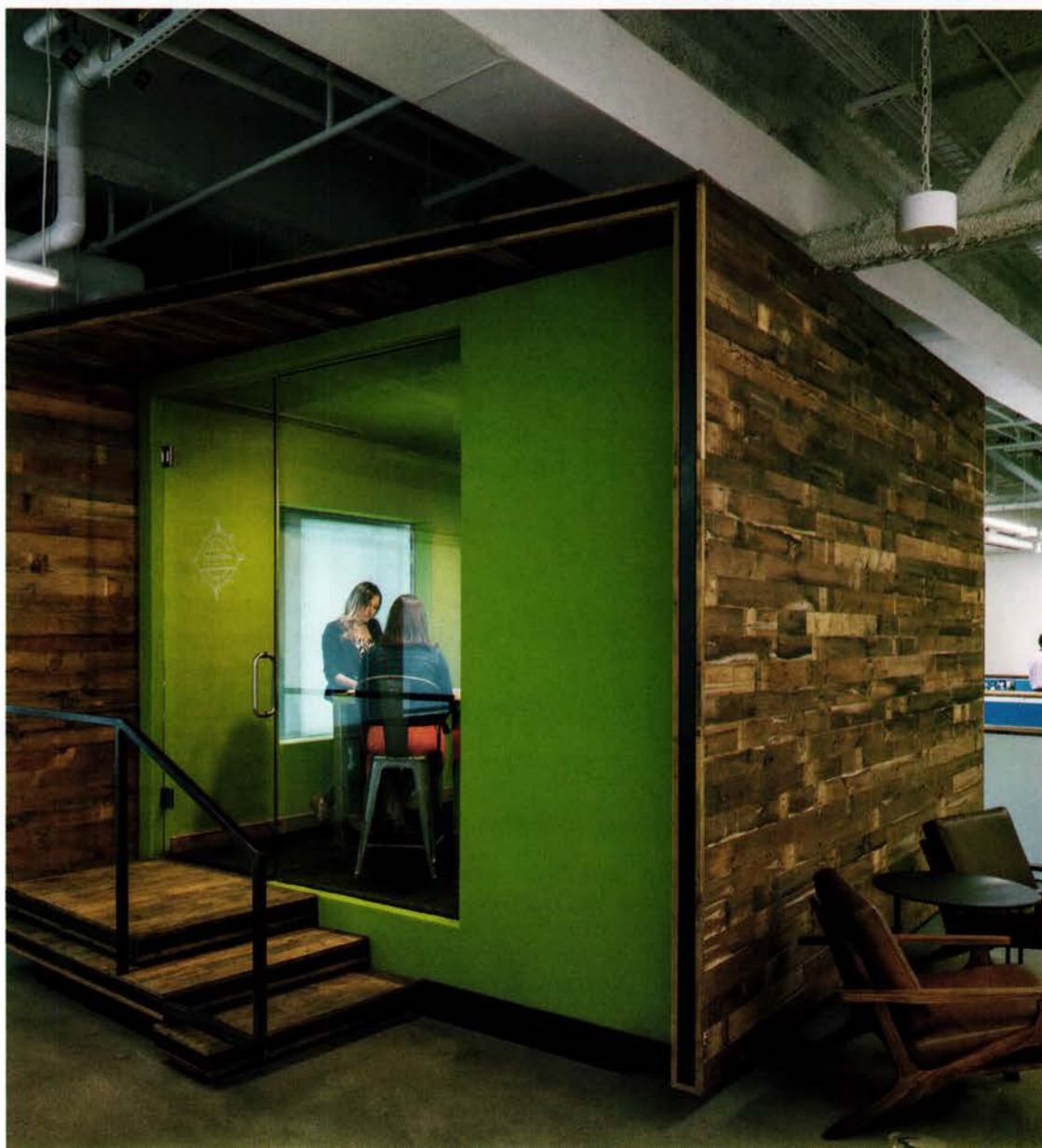
Ryan Companies

**Size:** 38,000 square feet

**Completion:** July 2016

**Photography:**

3M Design





**“Designers need to be partners at the table with people from marketing and R&D. We need to think about how design impacts all the touchpoints for our products. We want to maximize the customer experience, and design is critical to that.”**

Eric Quint, 3M chief design officer

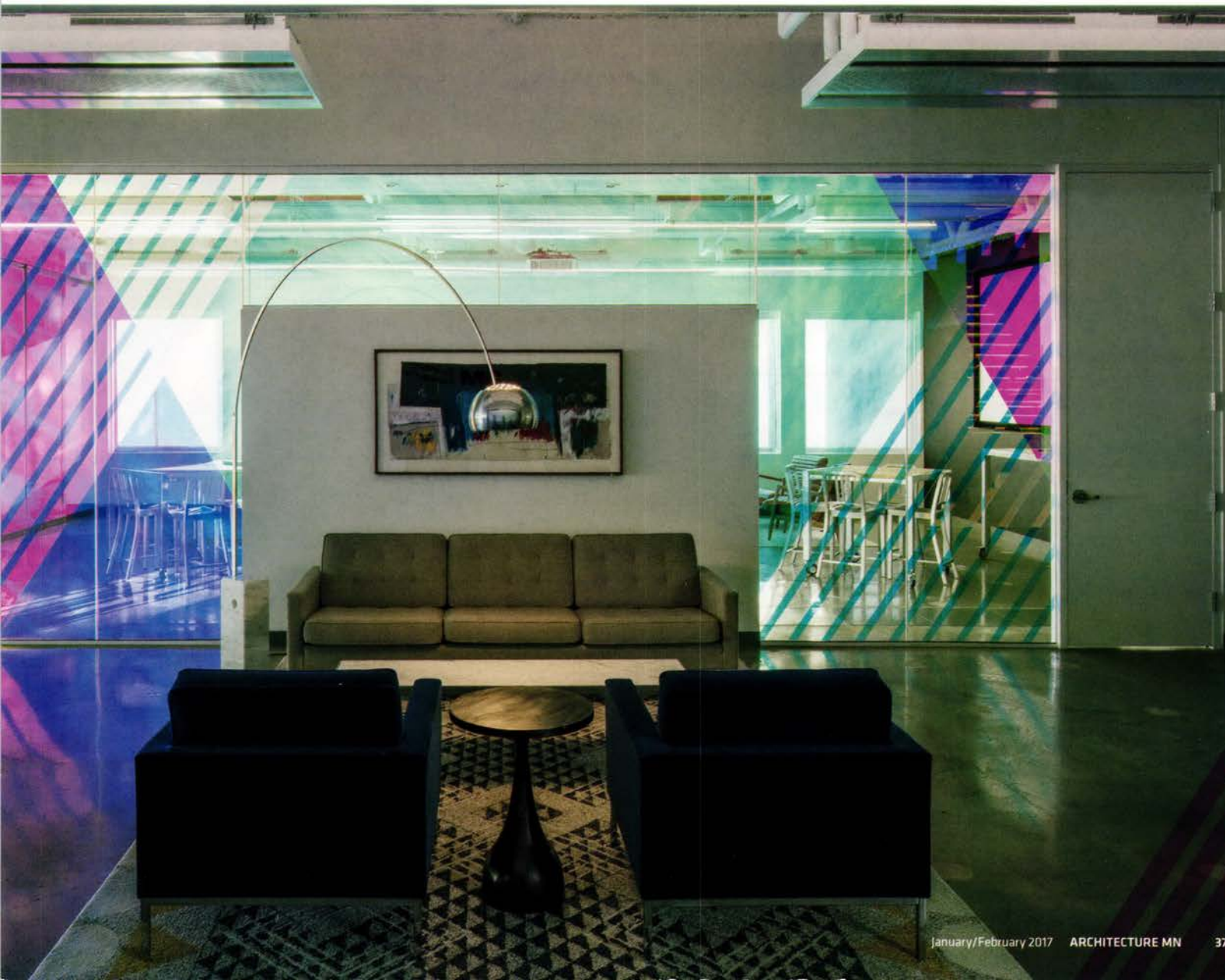
But 3M's approach is rapidly changing, says Eric Quint, a Dutchman trained in industrial design, who was appointed the company's chief design officer in 2013. “Designers need to be partners at the table with people from marketing and R&D,” he says. “We need to think about how design impacts all the touchpoints for our products. We want to maximize the customer experience, and design is critical to that.”

3M employs thousands of scientists, engineers, and other technical professionals, but their labs are scattered around the world, and even labs on the same campus are often housed in different buildings. Such silos inhibit creative collaboration, which is essential to good design, says Quint.

So, shortly after he arrived in Minnesota, Quint began lobbying 3M's leadership to establish a center where his staff could freely collaborate and their innovations could be dramatically showcased.

“I said, ‘Give me the oldest lab,’” he recalls. “‘I can make it into something that builds on the history of the company but also shapes the designs of our new products.’” He hired Minneapolis firm MSR, which has a long history with 3M, for the project's architectural design. Construction began in 2015 and was completed last summer.

>> continued on page 56









Author of first two *Preservation Briefs* • Instrumental in writing *Secretary of the Interior's Standards for the Treatment of Historic Properties* • More than twenty years teaching at the University of Minnesota • College of Fellows, AIA • College of Fellows, Association for Preservation Technology • Founding board member of Preservation Alliance of Minnesota • Minneapolis Municipal Building • Charles Lindbergh Residence • The Gale Mansion • Saint Augustine Church • Hamline Church United Methodist • Wesley United Methodist Church • Going-to-the-Sun Road at Glacier National Park • Fort James Jackson • Hodges Claim Shanty • Estate of President James Garfield • Minneapolis Grain Exchange • Pioneer-Endicott Building • Washington Pavilion • Smith-Douglas-More House • Third Vandalia State House • West Franklin Historic District • Minnesota Veterans Home • CSPA Sokol Hall • Split Rock Lighthouse • Alexander Ramsey House • Nolte Center • Pillsbury Hall • Canby Theatre • Valley Grove Churches • Au Sable Light Station • Central Presbyterian Church • Saint Anthony Falls Historic District • First Congregational Church • Mill Ruins Park • Uptown Theater • Fergus Falls Regional Treatment Center • Ames-Florida-Stork House • Redeemer Missionary Baptist Church • Franklin Avenue Bridge • Government Townsites • Minnehaha County Courthouse • Minnesota Governor's Residence • Au Sable Lighthouse • Rock Island Arsenal • Duluth Ship Canal • Bayfield County Courthouse • Virginia Street Swedenborgian Church • Traverse des Sioux Historic Site • Pipestone County Courthouse • Pipestone Indian Boarding School • DUSEL site / former Homestake Mine • Carlson Lime Kiln • Laura Ingalls Wilder House • Little House on the Hill • Robitshek Building • The Soap Factory • Nicholas Jarrot House • Phalen Park Bridge • Lake Calhoun and Lake Harriet Walls • AND MANY, MANY MORE ...



*Building investigation with boroscope, 1980s.*

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Hundreds of projects. Unceasing passion for investigating and restoring historic buildings.

And now, the AIA Minnesota Gold Medal.

CONGRATULATIONS, BOB MACK!

We're honored to work with you  
and learn from you every day.

MACDONALD & MACK  
ARCHITECTS

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1. Mayo Clinic Gonda Building
2. Cascade Meadow Wetlands & Environmental Science Center
3. IBM Manufacturing and Training Facility

*When the IBM complex was completed in the late 1950s, the Rochester Post-Bulletin described it as "a green sea, surrounding a royal blue island."*

# Rochester: A Design Tour

THE **SOUTHEASTERN MINNESOTA CITY** CONTAINS  
NUMEROUS DESIGN GEMS, INCLUDING WORKS BY FRANKLIN ELLERBE,  
FRANK LLOYD WRIGHT, AND EERO SAARINEN

BY Joel Hoekstra  
PHOTOGRAPHY BY Brandon Stengel



**Rochester, the third-largest city in Minnesota, has always been a pragmatic place. Its primary industries—medicine and computing—attract people who value science, data, results, method, and performance. Form should follow function. Fashion leads to folly.**

But over the decades, Rochester has amassed a collection of architectural gems—buildings that bear the signature of starchitects and notable locals alike. Efforts to energize its downtown with gardens and bike paths have recently begun

to bear fruit, and a significant expansion of the Mayo Civic Center, by regional architecture and engineering firm TSP, is set to open in 2017. Next door, looming over the south fork of the Zumbro River, stands the award-winning **Rochester Art Center** (2004), designed by HGA Architects and Engineers. A few blocks away, the charming **Chateau Theatre** (1927), designed by St. Paul architect Franklin Ellerbe, is now owned by the city, which hopes to turn the former vaudeville house into a cultural hub





4. Mayo Clinic  
Plummer Building
5. Rochester Art Center
6. University Square
7. Mayo Building
8. Chateau Theatre

*The oldest and most iconic of the Mayo towers, the ornamental Plummer Building is topped with a bell tower featuring a 56-bell carillon Dr. William Mayo found in Europe.*

## No Little Plans

The biggest architecture news out of Rochester centers on the city's Destination Medical Center master plan, created by New York firm Perkins Eastman. The plan outlines the revitalization of six downtown subdistricts, each with its own character and focused on a major open space, with a transit system linking them all. "The best and the brightest want to live in authentic urban places where they can . . . walk to work, take transit, be on a bike path," says Perkins Eastman principal Peter Cavaluzzi, FAIA.







5

with help from Miller Dunwiddie Architecture. Rochester, once a stagecoach stop on the ride from Dubuque to St. Paul and now a destination for people seeking medical treatment, boasts more than its fair share of design character.

#### MAYO AND MORE

To get a sense of the economic engine that has fueled Rochester's growth, start at the Mayo Clinic, a multi-building campus located downtown. Dr. William Worrall Mayo and his two sons, William and Charles, teamed with a group of Franciscan nuns to establish the clinic in the late 1880s, but it was the Romanesque-style **Plummer Building** (1928), with its bell

tower, terrazzo floors, bronze doors, and winged-serpent details, that gave the clinic an impressive visual presence.

Today, most visitors check in across the street at the **Gonda Building** (2001), designed by Cesar Pelli Associates and Ellerbe Becket. The 21-story building, with a marble-sheathed lobby that overlooks a sunken garden, was fused to another Ellerbe creation, the **Mayo Building** (1954). Originally 10 stories tall, the Mayo Building was expanded to 18 stories in 1969. Though nearly a half-century old, the tower's variegated gray-marble exterior, trimmed with brise-soleil and rose-tinted windows, retains

ROCHESTER HAS AMASSED A COLLECTION  
OF ARCHITECTURAL GEMS—BUILDINGS  
THAT BEAR THE SIGNATURE OF STARCHITECTS  
AND NOTABLE LOCALS ALIKE.



6



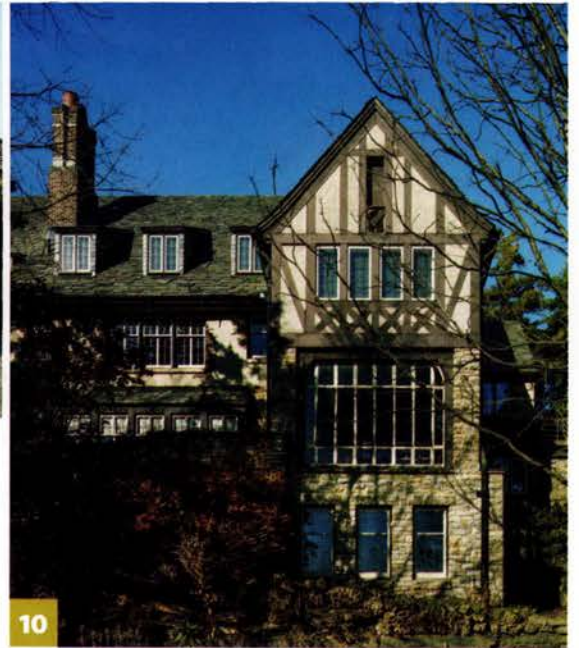
7



*Far left: Downtown boasts an eclectic mix of architectural styles and public spaces. Left: The Art Deco Chateau Theatre awaits its next use after stints as a vaudeville house, movie theater, and bookstore.*

8





ROCHESTER'S OUTER DISTRICTS  
CONTAIN A TROVE OF DESIGN  
TREASURES AS WELL.

9. Bulbulian House  
(Frank Lloyd Wright  
Usonian home)

10. Plummer House

11. Mayo Woodlands

12. Foundation House

13. B'nai Israel  
Synagogue

14. St. John the  
Evangelist

*Rochester is home  
to a dynamic array of  
residential architecture,  
from the historic  
mansions on Pill Hill  
to contemporary gems  
in Mayo Woodlands.*





a simple, contemporary feel that contrasts nicely with the nearby Rochester Public Library—now the Mayo Medical School Mitchell Student Center—designed by Rochester-area architect Harold Crawford.

Medical issues often force us to confront our mortality, so it's no surprise that a number of religious buildings surround the Mayo Clinic. Design-wise, the most notable of these include the keystone-shaped **St. John the Evangelist** (1957)—described by architectural historian Larry Millett as an “ungainly but fascinating

church, which adheres to no architectural style other than its own”—and **B'nai Israel Synagogue** (2008), an elegantly intimate worship space with a tabernacle that floats above the floor, designed by HGA architect Joan Soranno, FAIA.

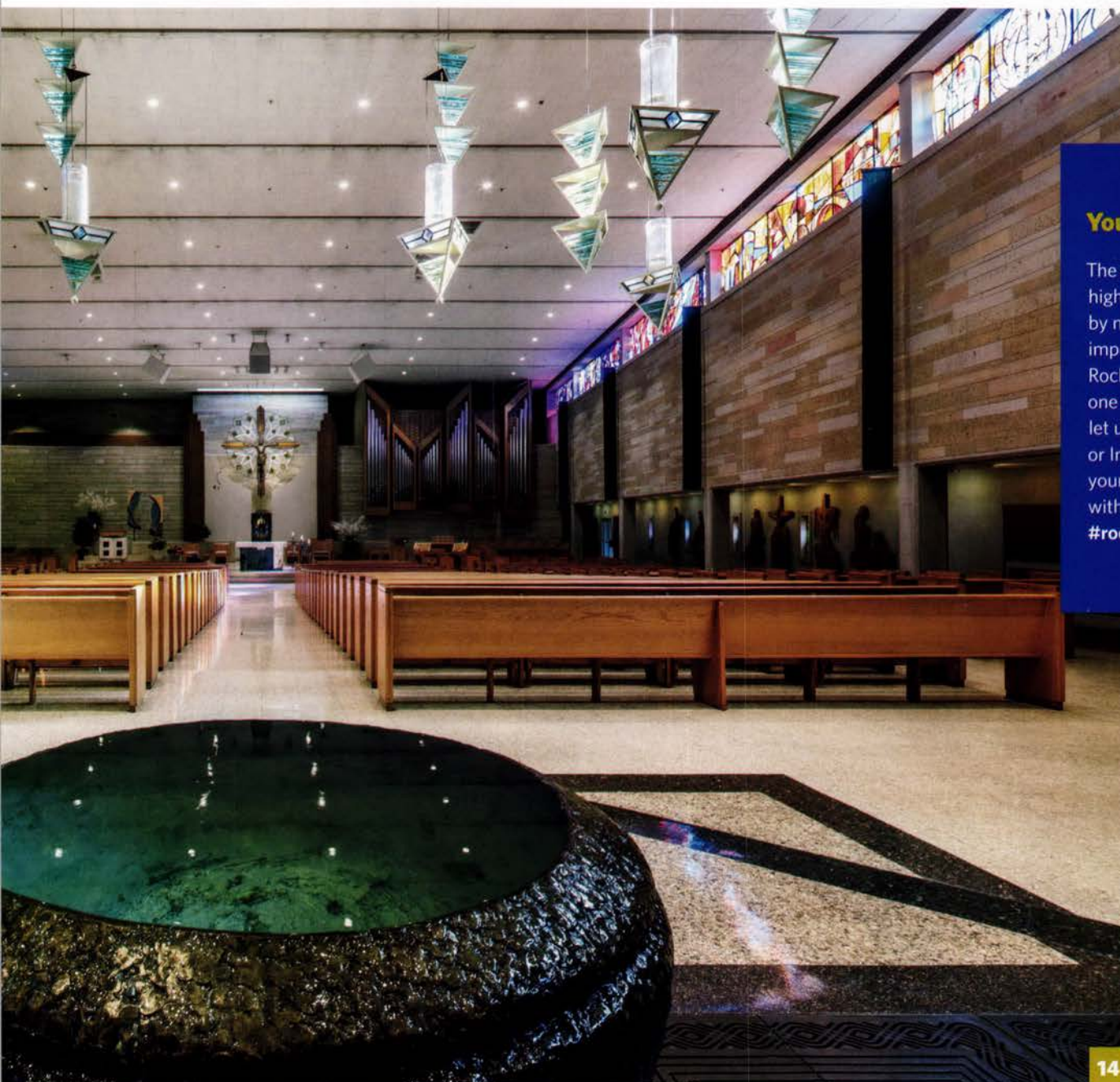
#### HIDDEN IN THE HILLS

Wealth generated by the Mayo also built the city's residential neighborhoods. Climb “Pill Hill,” located southwest of downtown, and you'll find the **Foundation House**, the Romanesque manse that Ellerbe designed for William J. Mayo, as

>> continued on page 59



13

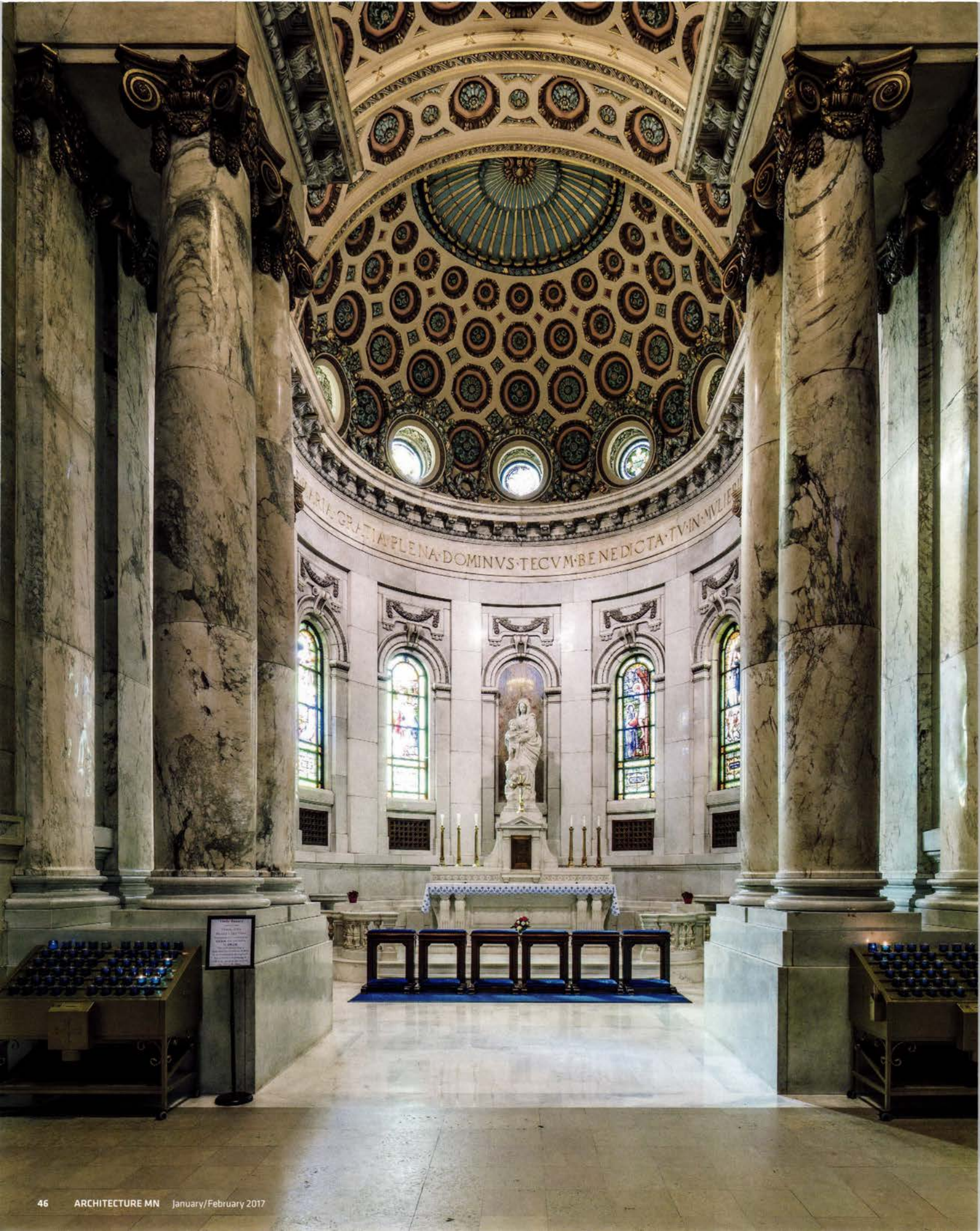


#### You Forgot One!

The design gems highlighted here are by no means the only important buildings in Rochester. If we omitted one of your favorites, let us know on Twitter or Instagram. Just tag your addition to the list with @archmnmag and #rochesterdesigngem.

14









ST. PAUL CATHEDRAL ARCHIVES

# MASQUERAY in MINNESOTA

BY JOEL HOEKSTRA

PHOTOGRAPHY BY MORGAN SHEFF

*The Chapel of the Blessed Virgin Mary, completed in 1919, is one of the cathedral's side chapels. Artist Leon Hermant considered the sculpture his masterpiece.*



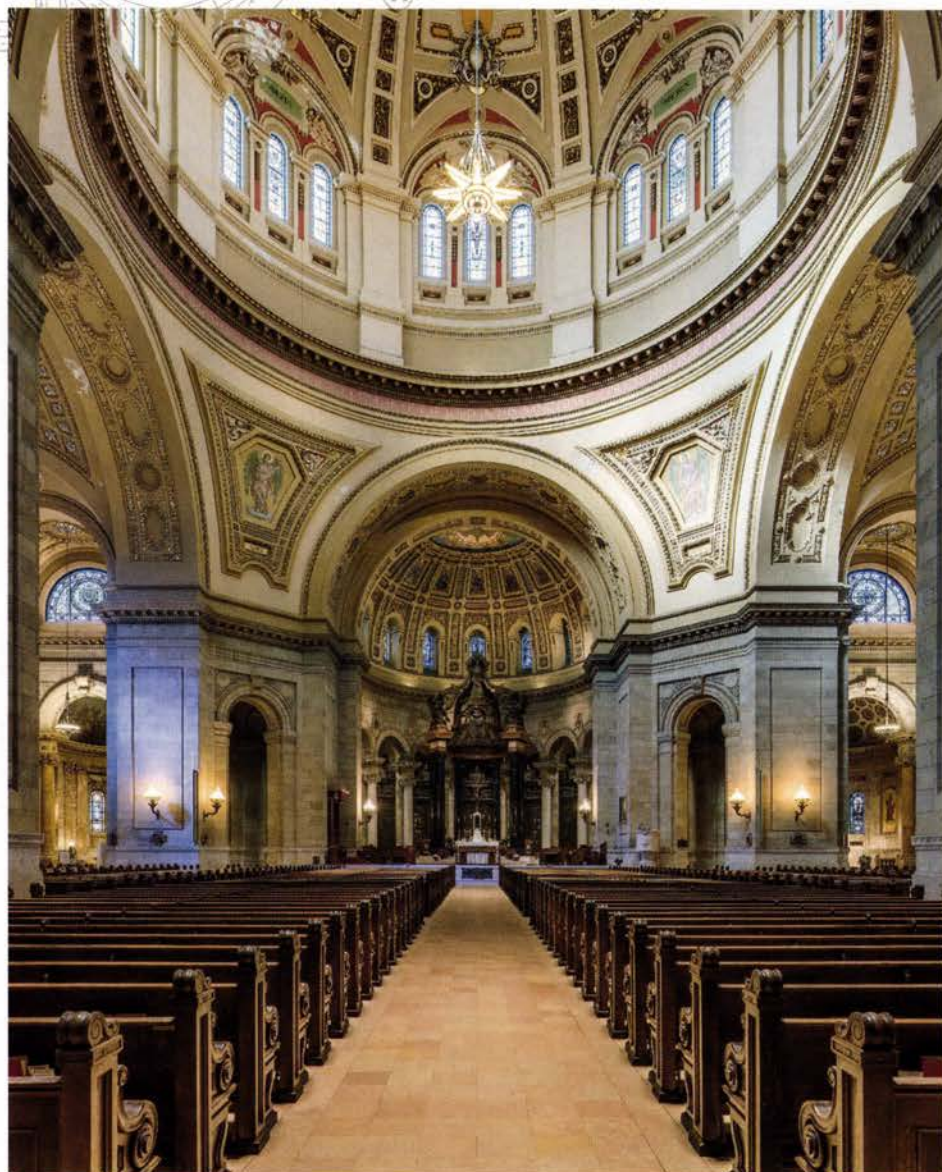
*Architecture MN* marks the centennial of the death of Emmanuel L. Masqueray with the story of how the French architect came to design the Cathedral of St. Paul and the Basilica of St. Mary at nearly the same time. New photography of the two landmarks captures Masqueray's towering achievements.

On May 25, 1917, a French immigrant riding the streetcar to work in St. Paul collapsed and fell into a coma. Rushed to the city hospital, he revived only briefly and died the following morning. He was buried next to his mother in Calvary Cemetery.

The funeral of 55-year-old Emmanuel Louis Masqueray was attended by dozens of dignitaries and presided over by no less a figure than St. Paul's foremost prelate, Archbishop John Ireland, who said of the architect: "His mind was well stored with the fruits of long reading and correct thinking. A charm it was to meet him—a charm that grew the sweeter as one drew nearer to him and knew him in closer intimacy."

Indeed, Ireland and Masqueray had developed a close bond over the previous decade: They had collaborated on more than a dozen projects that forever changed Minnesota's architectural landscape. Commissioned by the Archdiocese of St. Paul and Minneapolis to design a cathedral and a basilica, numerous chapels, several parish churches, a school, and three buildings that ultimately became part of the University of St. Thomas, Masqueray saw his career flourish largely because of his close association with Ireland.

One hundred years after his death, his legacy remains strong. The Cathedral of St. Paul and the Basilica of St. Mary in Minneapolis are now iconic landmarks, well known to locals and often ogled by tourists. Both structures have undergone significant refurbishment,



*With its copper-clad dome soaring over St. Anthony Hill, the CATHEDRAL OF ST. PAUL is the city's true icon. But the real drama lies inside.*







The masonry exterior suggests that the entire structure is stone, but in fact the Basilica of St. Mary, as the pro-cathedral was later named, is made largely of steel and concrete.



and the Basilica congregation is planning interior renovations that will begin in 2021. In January, an exhibit titled “E.L. Masqueray, Architect” will open at St. Thomas, highlighting the designer’s campus contributions as well as providing context for his other buildings (see sidebar on page 50).

“Ireland put Masqueray in the right place at the right time,” says Victoria Young, chair of the art history department at the University of St. Thomas. “Once he got here, he never really had to worry about where the next commission was coming from.”

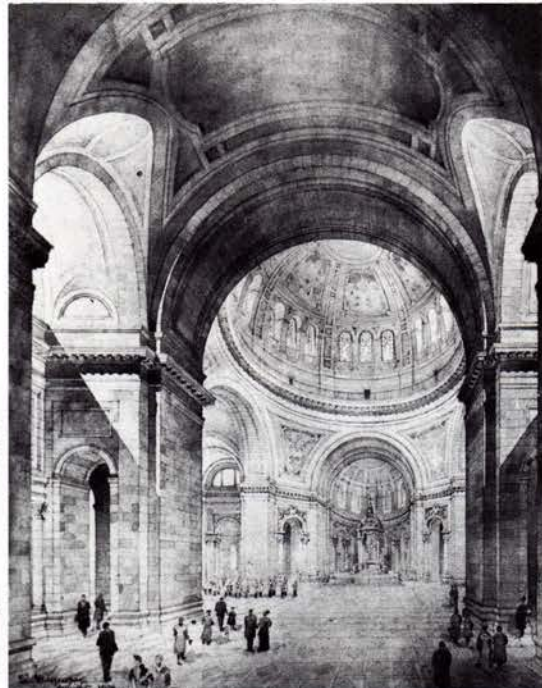
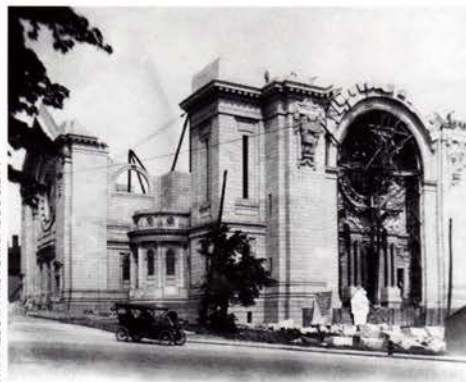
## FROM PARIS TO THE PRAIRIE

Masqueray was born in Normandy in 1861 and raised in Rouen and Paris. At 17, he was accepted by the École des Beaux-Arts, the world’s leading art school. The boy’s talent led to prizes and ultimately a period of study in Italy, where Masqueray developed an appreciation for Renaissance architecture. In 1887, he accepted an invitation from an acquaintance to come to the U.S. and work for the New York firm Carrère and Hastings.

*The first basilica in the U.S., the majestic BASILICA OF ST. MARY combines elements of Renaissance, baroque, and neoclassical styles.*



*Below: Construction of the Cathedral of St. Paul. Right: A drawing of the cathedral interior before it was completed and furnished.*



Five years into his American adventure, Masqueray switched to the office of Richard Morris Hunt, who designed homes for the Vanderbilts and other American elites. Masqueray also began teaching, setting up a school modeled on the École des Beaux-Arts.

But the connection that most dramatically changed the course of Masqueray's career was made in Missouri. In 1901, Masqueray was chosen to be the chief designer for the Louisiana Purchase Exposition, also known as the St. Louis World's Fair, to be held in 1904. Over the next three years, the architect oversaw the design of the Fish and Game Palace, the Colonnade of States, monuments, landscaping, statuary, bridges, and bandstands. Forced to work exclusively in the Neo-Baroque style, which clashed with both his classical training and his personal interest in Renaissance styles, Masqueray must have

been desperate for a new commission when he was introduced to one of the fair's most distinguished guests, Archbishop Ireland.

His flock having outgrown its home in downtown St. Paul, Ireland had set his sights on a large property on what was then called St. Anthony Hill. A committee tasked with selecting an architect to build on the site had developed a list of 11 firms for consideration, but Ireland quickly whittled that list to one: In 1905, Masqueray set up an office in St. Paul and began drawings for what would become the Cathedral of St. Paul.

## A TALE OF TWO ICONS

Masqueray laid out a plan in the form of a modified Greek cross—its arms almost equal, with a shorter nave and wider transepts. The 96-foot-diameter dome that towered over pew seating for 2,500 was enormous, giving the structure an oversized appearance not unlike the Sacré-Coeur in Paris. The architect later wrote that he hoped the structure, “while being entirely of the 20th century in feeling and purpose,” would also have secondary features like the ones that “gave so much charm to the old churches of the Middle Ages.”

Ireland must have approved, because he awarded the architect a second commission before

>> continued on page 60

## E.L. MASQUERAY, ARCHITECT

Exhibition panel & reception

**LOCATION:** O'Shaughnessy Education Center, University of St. Thomas

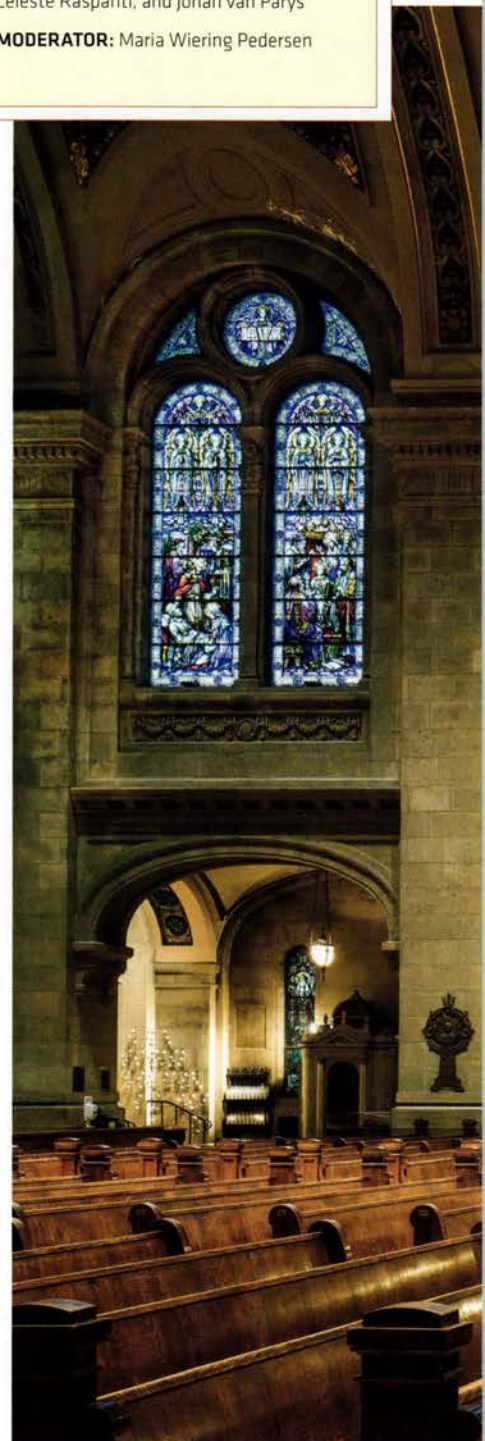
**DATE:** March 13, 2017, 6 P.M.

**PANELISTS:** Alan Lathrop, Larry Millett, Celeste Raspanti, and Johan van Parys

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"It's rare that a bishop ever gets to build a building of this size," says the basilica's Johan van Parys. "But the idea that the archbishop would build two at the same time is exceptional."



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## Cities and the Sharing Economy

<< continued from page 21

An even bigger change will happen to our streets and public realm. Shared autonomous vehicles, for instance, require only one relatively narrow pass lane in each direction, with occasional pull-over lanes to drop off or pick up passengers. And because of their geo-locational awareness, they also move more efficiently through the street grid than on highways. Despite that, we continue to build roads as if driver-owned-and-operated cars will continue to dominate our transportation systems for decades to come—something that even the car companies no longer assume.

Instead, we need to start designing streets and sidewalks in ways that let them switch from driver to driverless cars over the next 20 years, with strategies that encourage multiple modes of movement and that utilize the land freed up by on-demand transportation for other purposes, like socialization space or green infrastructure. At the same time, we need to allow a much denser mix of uses in neighborhoods, not only to facilitate the new economy's tendency to integrate living and working with producing and consuming, but also to give everyone opportunities to live safer and healthier lives.

New economies build on previous ones, and the old mass-production economy will continue at some level, but we should not see the on-demand economy as far off or far out. Analysts at PricewaterhouseCoopers, for example, forecast that five new sectors of the sharing economy (including car sharing and music and video streaming) could equal the overall sales of five traditional rental sectors (including car and equipment rental) by 2025.

Yet neither should we embrace the new economy unquestioningly. It will certainly upend some people's lives, as shared autonomous vehicles, for example, disrupt the auto industry, which comprises more than 3 percent of our GDP, and end one of the most common jobs in America: truck driving. Likewise, on-demand shopping will affect bricks-and-mortar retailing, decreasing the number of retailing jobs and altering the kinds of businesses that line our streets.

At the same time, we should not see this as a passing fad, because the new economy actually aligns with a way of being that's deeply ingrained

>> continued on page 56

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## Cities and the Sharing Economy

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in us. For more than 90 percent of our history as a species, we have lived in small groups, sharing food and shelter, cooperating on child rearing and chores, and receiving information when everyone else did. While many people still live that way today, the sharing economy offers the rest of us a high-tech version of it, giving us access to an existence we once knew and to which we can return with new understanding and appreciation.


What this means for urban form, we cannot know for sure. But it does suggest a future in which people will probably live and work in closer proximity to each other, in denser and functionally more diverse neighborhoods, while remaining connected to everyone else. Think of it as a world of global villages. **AMN**





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## 3M Design Center

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The heart of 3M's St. Paul campus is a quadrangle plaza flanked by four office buildings erected in the 1960s. In recent years, the company has been renovating the facilities—with help from MSR, among others—and the main administrative tower has gotten a significant facelift and interior remodel. As if to signal the elevated role of design in the company's future, Quint was given 38,000 square feet of highly visible space near the main entry. Hundreds of employees and visitors pass the sign for the new 3M Design Center every day.

The biggest challenge, says MSR principal Josh Stowers, AIA, was to figure out how to shoehorn a creative space into an existing office-style environment. The program ultimately required construction workers to cut through two cement floors to unify the three-story space.

In part, the center is a showplace for 3M products. Visitors entering the central core will find a Jaguar coupe wrapped in colorful 3M films.

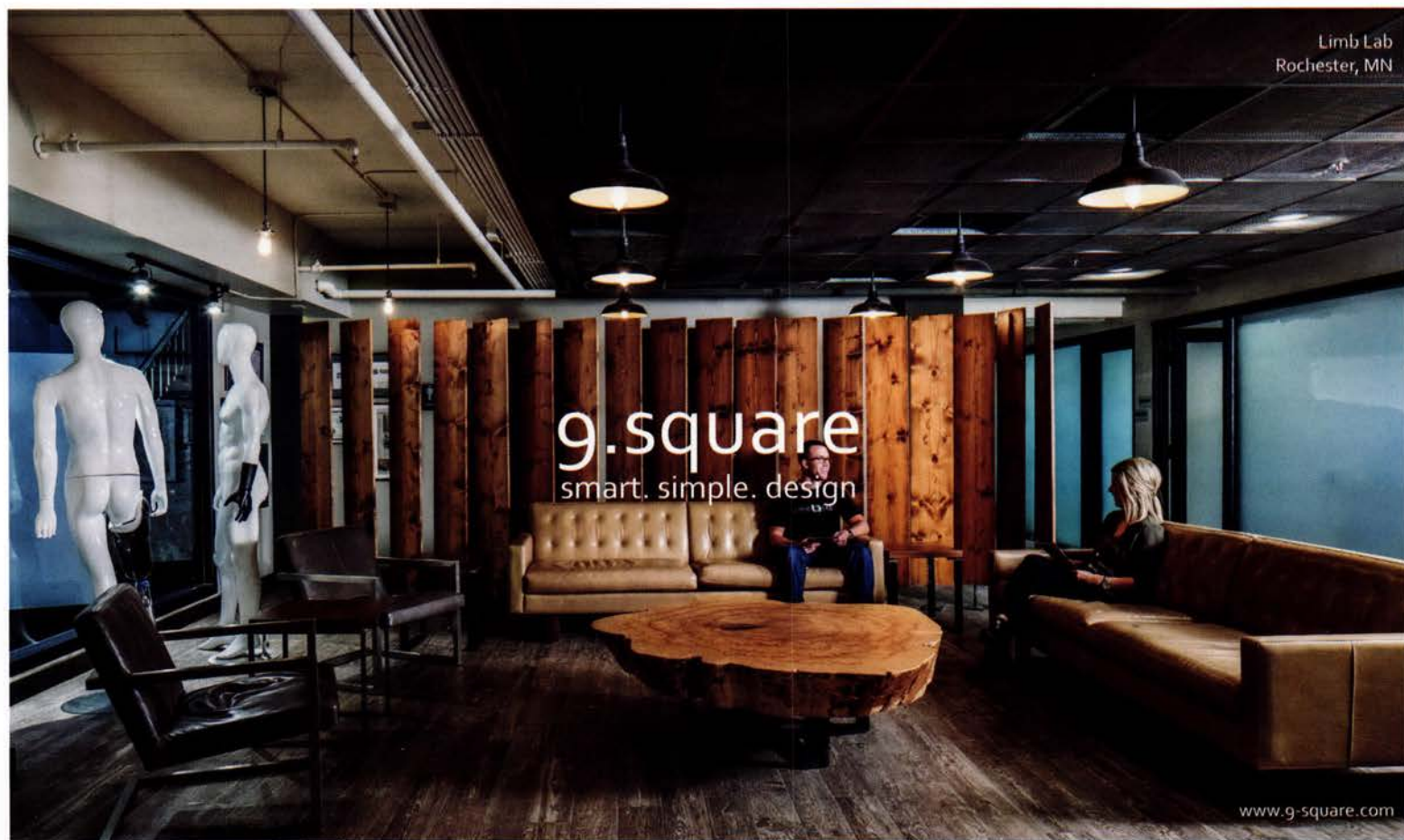
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## 3M Design Center

<< continued from page 56

Glass partitions and doors are sheathed in 3M films that shift from transparent to mirrored as the viewer's angle changes. A suite of rooms dedicated to 3M's primary brands—like Post-it and Scotch—is kitted out with historic brand images, walls bearing approved typefaces, and the shards that compose 3M's new trifecta brand identity, unveiled in 2015.

Sustainability was also a consideration in the design. The space incorporates energy-efficient climate control, LED lighting systems, and lots of recycled wood, including reclaimed scaffolding boards transformed into tables and desks. On a tour, Quint points to the incorporation of adjustable desks that can be raised to standing height as another sustainability strategy—one that promotes employee health.

But the center is less a temple to technology than it is a workplace designed to spur creativity. Comfortable chairs ring a central pit called the Design Hive, an open auditorium where employees can curl up with pillows to hear a guest lecturer. There's a large communal table with stools for impromptu chats over snacks, as well as niches and small rooms filled with stylish sofas and plush chairs. MSR co-designed three of the meeting rooms—which 3M named Mille Lacs, Vermilion, and Minnetonka, after Minnesota lakes—as freestanding cabin-like enclosures. "They're glassed-in at the ends, so people can see collaboration happening inside, and they're also raised up a bit," says Quint. "It's as if we're putting creativity on a pedestal."

"I wanted it to have the feel of a living room," Quint says of the center. "People like being at home in their living room, and feeling comfortable and safe is key to unlocking creative ideas. The Dutch have a word, *gezellig*, that, loosely translated, means 'cozy.' I wanted the space to have that cozy feel."

Staff have told Quint they almost prefer being at work to being at home—the place is that comfortable. "The physical environment has begun to yield creative fruit and attract the notice of others at 3M and external," he says. But when his colleagues ask if he can redesign their offices or labs, Quint demurs: "I have to tell people I'm the chief design officer at 3M, not the chief interior designer." **AMN**



## Rochester: A Design Tour

<< continued from page 45

well as several homes conceived by hometown hero Crawford. None of the dwellings are open to the public, but the **Plummer House** (1924), an English Tudor built by a prominent Mayo physician, is occasionally open for tours in summer, and its gardens can be explored year round. "Passing by the Foundation House and the Plummer House on walks with my dog continues to inspire me, even after nine years of living in the neighborhood," says 9.Square architect Adam Ferrari, AIA.

Rochester's outer districts contain a trove of design treasures as well. Fans of environmental design and sustainability technology will enjoy **Cascade Meadow Wetlands & Environmental Science Center** (2010). Designed by LHB, the science center overlooks 115 acres of restored wetlands and oak savanna. Frank Lloyd Wright also took heed of Rochester's natural setting when he planted a pair of **Usonian homes**, sleek and built with inexpensive materials, on Skyline Ridge. And farther south, in an area known as **Mayo Woodlands**, on the edge of the Zumbro, Minnesota architects David Salmela, FAIA, and Tim Alt, AIA, teamed with landscape architect Shane Coen to erect contemporary glass boxes for living (2004). The initial homes have won several awards, yet they failed to spark a boom in modern residential building in the development.

Alas, few of Rochester's most interesting buildings are open for tours, including one of the most famous: Eero Saarinen's **IBM Manufacturing and Training Facility** (1958, with several expansions). The Finnish-American architect wrapped his creation in a royal-blue glass membrane—the thinnest in the world at the time. Built on a campus of rolling green prairie, the complex blended beauty and technology in a simple manner that heralded the space age and brought fame to Rochester. "'Big Blue' was a big piece of an earlier boom in Rochester's growth," says architect Teresa McCormack, AIA, of the Urban Studio in Rochester. "The departure from a regional style emphasized IBM's intent to be a leader in the international marketplace."

What does the future hold for Rochester architecture? Ambitious plans for the Destination Medical Center (see sidebar and "Urban Health" in our January/February 2016 issue) signal a new wave of construction downtown. As the DMC effort gains momentum over the next decade, let's hope Rochester continues to demand the best from architects, building on the heritage it already has. **AMN**

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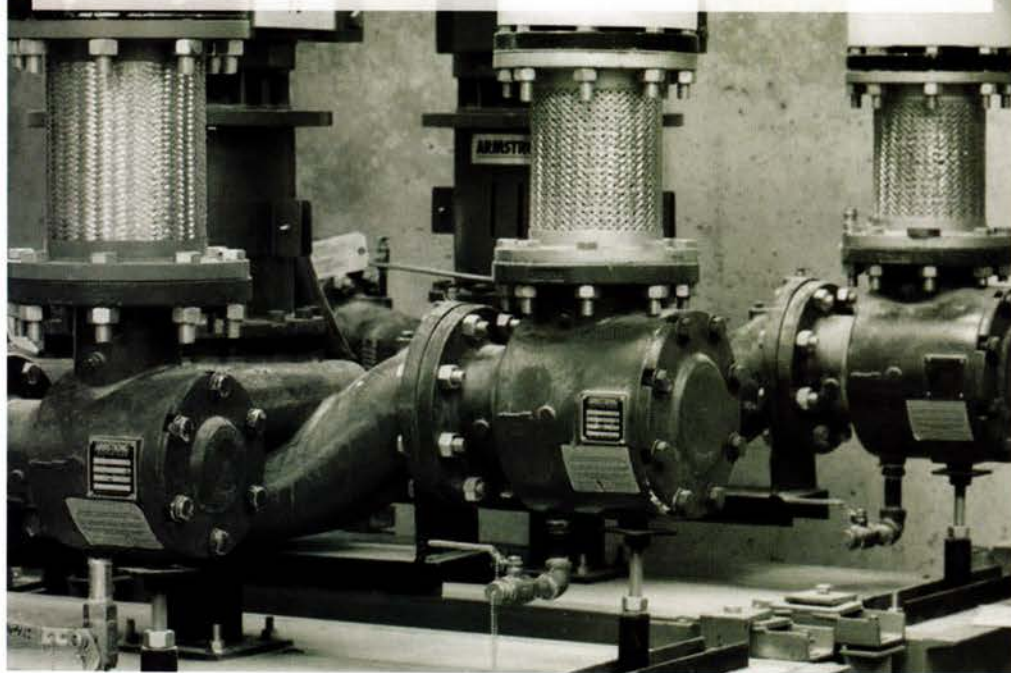
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## Masqueray in Minnesota

<< continued from page 50

the first was barely begun. Perhaps hoping to lay claim to more souls in mostly Protestant Minneapolis, the archbishop announced plans to build a pro-cathedral on swampland just west of downtown. For this church, Masqueray produced a plan based on the Roman cross but without transepts.

The masonry exterior suggests that the entire structure is stone, but in fact the Basilica of St. Mary, as the pro-cathedral was later named, is made largely of steel and concrete. Five sets of pillars support five girders, from which hangs an interior that is mostly painted plaster. Like the cathedral in St. Paul, the basilica is capped with a copper dome—albeit a smaller one. “It’s by far the most highly decorated building that I’ve ever worked on,” says Chuck Liddy, FAIA, a principal with Miller Dunwiddie Architecture, which has overseen renovations and restorations of the building since the early 1990s.

Johan van Parys, the basilica’s director of liturgy and sacred arts, who has worked in the parish for 22 years, says the church’s beauty isn’t the only thing that makes it remarkable. “It’s rare that a bishop ever gets to build a building of this size,” says van Parys. “But the idea that the archbishop would build two at the same time is exceptional.”

## A RICH LEGACY

Under Ireland’s patronage, Masqueray went on to produce numerous churches and chapels throughout the Twin Cities, including the exquisite Church of St. Louis, King of France, in St. Paul; the Church of the Incarnation in Minneapolis; and the Chapel of St. Thomas Aquinas on the St. Thomas campus.

His talents helped him win work from Protestants as well; standout projects included Bethlehem Lutheran Church and St. Paul’s Episcopal Church on the Hill, both in St. Paul. “These,” architectural historian Alan Lathrop has noted, “were almost always Gothic in style in contrast to his Catholic churches, which were usually executed in Romanesque, Renaissance, or Baroque styles.” As his reputation spread, Masqueray landed

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## Masqueray in Minnesota

<< continued from page 60

commissions for three more cathedrals: in Wichita, Sioux Falls, and Winnipeg. (Only the first two were built.)

But much of the architect's work remained unfinished at the time of his death in 1917; a number of projects had to be completed by his acolytes, including famed Minnesota architect Edwin Lundie Ireland, who died a year later, also never saw the Cathedral of St. Paul or the Basilica of St. Mary interiors in finished form.

Cass Gilbert, one of the 10 architects who lost out to Masqueray in the bid to design the Cathedral of St. Paul, was gracious enough to acknowledge the talents of his former rival when he observed: "If the dome of the Cathedral of St. Paul and that of the new State Capitol were part of the skyline of a city in Europe, they would be world famous." **AMN**

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Jay J. Cain, PE  
Scott D. Thomas, PE, LEED AP  
Ryan D. Stephens, PE

Cost effective, energy conscious, sustainable mechanical and electrical engineering design on a wide variety of project types, including but not limited to healthcare, specialty housing, hospitality, retail, transportation, public works, office education, worship, recreational, data/communications and industrial. Specialties include interior and exterior lighting, geothermal heating/cooling, vehicle specialties, renewable energy, radiant floor, green design, streetscape electrical, commissioning, energy modeling, LEED, sustainable design and heat recovery for a coast to coast market.

Four Winds Casino, South Bend, Indiana;  
Public Works Facility, Crystal, MN;  
I-90 Bridge Electrical, Dresbach, MN; MN  
Veterans Home SNF, Minneapolis, MN;  
Castle Peak AL and SNF, Eagle Colorado;  
Mount Saint Benedict Monastery Addition,  
Crookston, MN; Ho-Chunk Casinos Four Site  
Expansion, Wisconsin; Trinity Springs AL  
and IL, The Villages, Florida

## CIVIL SITE GROUP

CivilSite  
GROUP

4931 West 35th Street, Ste. 200  
St. Louis Park, MN 55416  
Tel: (952) 250-2003  
Email: mpavek@civilsitegroup.com  
www.CivilSiteGroup.com  
Established 2009  
Total in MN Office: 7  
Contact: Matt Pavek, (763) 213-3944

**Firm Principals**

Matt Pavek, PE  
David Knaeble, PE  
Robert Binder, LA  
Patrick Sarver, LA

Civil Site Group is an award winning professional consulting firm serving the land development marketplace with services in civil engineering, landscape architecture and municipal land entitlements. Our firm is built on a foundation of providing market leading professional site engineering services with a creative, integrated, solution-oriented approach. Our project successes are most often the direct result of our client centered project management style and our un-paralleled team oriented mindset.

The Linden, 43rd & Upton, Multi-family  
Residential, Minneapolis, MN; Gabella  
Apartments, Multi-family Residential, Apple  
Valley, MN; Spectrum Apartments,  
Multi-family Residential, Minneapolis, MN;  
Sanctuary Senior Living, Senior Multi-family,  
West St Paul, MN; Lucid Brewery/Tap Room,  
Commercial Redevelopment, Minneapolis,  
MN; Masonic Homes, Senior Campus  
Expansion, Bloomington, MN; Episcopal  
Homes Senior Campus Expansion, St. Paul,  
MN; Laguna Apartments, Multi-family  
residential, Minneapolis, MN

## CLARK ENGINEERING

CLARK  
ENGINEERING

12755 Highway 55, Ste. 100  
Minneapolis, MN 55441  
Tel: (763) 545-9196  
Fax: (763) 541-0056  
Email: info@clark-eng.com  
www.clark-eng.com  
Established 1938  
Total in MN Office: 42  
Total In Other Offices: 25  
Other Offices: Aberdeen, Sioux Falls,  
and, Watertown, SD  
Contact: Sylvia Murray, (763) 545-9196

**Firm Principals**

Abi Assadi, PhD, PE  
Tim LaBissoniere, PE, LEED AP  
Cory Casperson, PE  
Vladimir Scheglowski, PE  
Douglas Fell, PE  
Kevin Coff, PE  
Don Weigel, PE  
Seth Spychala, PE

Clark Engineering is an experienced multi-disciplinary engineering and technology firm with nearly 80 years of dedication to meeting the needs of government institutions, property developers, consultants, contractors, industrial manufacturers and others worldwide. Clark Engineering provides expertise in project development, project management, architectural, civil and structural engineering, survey, and renewable energy and resource recovery technologies.

Shoshone Rose Casino and Hotel, Landers,  
WY; Southwest High School Addition,  
Minneapolis, MN; Seward Montessori School,  
Minneapolis, MN; Think Bank, Rochester,  
MN; Central Park Commons Retail Campus,  
Eagan, MN; West St. Paul Retail, St. Paul,  
MN; Three Affiliated Tribes Nation Tribal  
Courts/Law Enforcement Center, ND; New  
Life Church, Princeton, MN



## COMMERCIAL AQUATIC ENGINEERING



6500 Carlson Drive  
Eden Prairie, MN 55346  
Tel: (952) 345-6447  
Fax: (952) 345-6444  
Email: gstoks@caqua.com  
www.fountaindesigns.com  
Established 1997  
Total in MN Office: 20  
Total in Other Office: 1  
Other Office: Kansas  
Contact: Greg Stoks, (952) 345-6447

### Firm Principal

Greg Stoks

Commercial Aquatic Engineering (CAE) differs from many water feature companies in that we specialize in providing services to support all aspects of the project. This includes concept development and validation services, feature consultation on functionality and performance, budgeting analysis, construction documentation, installation, and maintenance support services. Our expertise includes structural design, waterproofing, finishes, mechanical operating systems and electrical control systems.

*Rainforest Cafes, worldwide; Lakewood Cemetery Renovation, Minneapolis, MN; 20 Washington Renovation, Minneapolis, MN; Hennepin County Government Center, Minneapolis, MN; MN Zoo Sea Otter, Penguin, Grizzly exhibits & Central Plaza, Apple Valley, MN; Bloomington Central Station, Bloomington, MN; New East Commons Park, Minneapolis, MN; Firemans Park, Chaska, MN*

## COMMISSIONING SOLUTIONS



1400 Van Buren Street  
Minneapolis, MN 55413  
Tel: (877) 380-0581  
Email: pnelson@obernel.com  
www.commissioningsolutions.com  
Year Established 2007  
Total in MN Office: 50  
In Other Offices: 85  
Other Offices: Duluth, MN; Alexandria, MN; Fargo, ND; Bismarck, ND; Grand Forks, ND; Sioux Falls, SD; Philadelphia, PA  
Contact: Paul Nelson, (612) 930-6093

### Firm Principals

Jeremiah Christenson, PE LEED AP  
Brent Wavra, PE LEED AP BD+C  
Chip Jacobs, PE  
Dave Vig, PE CEM  
Ned Rector, PE LEED AP CEM  
Andy Bartsch, PE LC

Commissioning Solutions, Inc. delivers success to our client's projects by providing professional, detailed mechanical and electrical commissioning and energy auditing. Since 2007, our clients have received the full attention of professional, knowledgeable commissioning agents through every phase of their projects. With licensed mechanical engineers, electrical engineers, fire protection engineers NEBB certified agents, BCxA certified agents and LEED accredited professionals on staff, Commissioning Solutions, Inc. strives to provide our clients with the highest quality of commissioning and energy auditing services. Our staff comes from a stable and experienced design firm with 24 years of experience in the industry. This type of longevity allows our firm superior strength and ability to provide a quality product to our client's time-and-time again.

*MN State Moorhead Campus, Library and Classroom, Moorhead, MN; Williston Recreation Center, Williston, ND; UND Collaborative Energy Complex, Grand Forks, ND; Kennedy Middle School, Fergus Falls, MN; MSUM Lommen Hall, Moorhead, MN; VCSU Rhoades Science Center, Valley City, ND; Sanford Health Thief River Falls, MN; Douglas County Hospital, Alexandria, MN*

## DUNHAM ASSOCIATES, INC.



50 South Sixth Street, Suite 1100  
Minneapolis, MN 55402  
Tel: (612) 465-7550  
Fax: (612) 465-7551  
Email: info@dunhameng.com  
www.dunhameng.com  
Established 1960  
Total in MN Offices: 120  
Other MN Offices: Duluth & Rochester, MN  
Contact: Jay Rohkohl, (612) 465-7601

### Firm Principals

Jay Rohkohl, PE  
Steven J. Gentilini, PE  
Dale Holland, PE  
Todd Grube, PE  
Matt Jensen, PE  
Randy Olson, PE  
Greg Steinmetz, PE  
Tom Lind, PE

Dunham offers mechanical, electrical, and low voltage consulting engineering services to our clients across the United States. Our major practice areas are commissioning + energy services, commercial, education, healthcare, hospitality, mission critical, and retail. We have teams of specialists in indoor air quality, sustainable design, LEED certification, and CFD modeling, enabling us to help our clients optimize the performance of their building systems.

*Mayo Clinic Square Redevelopment, Minneapolis, MN; Fairview Southdale Carl N. Platou Emergency Center, Edina, MN; OATI South Campus Office and Data Center, Bloomington, MN; UMD Chemistry and Advanced Materials Science Building, Duluth, MN; Best Buy Prototype and Store Design, Nationwide; Mayo Clinic, Jacobson OR Fit-out, Rochester, MN; Hennepin County Medical Center Recommissioning, Minneapolis, MN; St. John's University Alcuin Library Renovation, Collegeville, MN*

## EAPC ARCHITECTS ENGINEERS



539 Bielenberg Drive, Ste. 115  
St. Paul, MN 55125  
Tel: (763) 225-5050  
Fax: (651) 702-2646  
Email: Andrew.jordan@eapc.net  
www.eapc.net  
Year Established 1967  
Total in MN Office: 5  
In Other Offices: 137  
Other Offices: Bemidji, MN; Fargo, Grand Forks, Bismarck, Minot, Williston, ND; Sioux Falls, SD; Fort Collins, CO  
Contact: Andrew Jordan, (763) 225-5050

### Firm Principals

Alan Dostert, AIA  
Wayne Dietrich, AIA  
Jim Tyler, PE  
Andrew Jordan, AIA  
Stanley Schimke, CID

EAPC is an award-winning, full service design consulting firm specializing in architecture, engineering, and business excellence services. EAPC was named a "2016 Best Place to Work For" in both categories of architecture and multidiscipline by Zweig Group.

*Leafline Labs Patient Care Center, St. Paul, MN; United Hospital, Foley Hybrid Operating Room, St. Paul, MN; Primp Boutique, Mankato, MN; Lakeland City Hall, Lakeland, MN; Mayo Clinic Health System Family Medicine Residency Clinic, Eau Claire, WI; Fire Station #5, Grand Forks, ND; Minnkota Power Cooperative Corporate Office, Grand Forks, ND; University of North Dakota Collaborative Energy Complex, Grand Forks, ND*



**EMANUELSON-PODAS, INC.**

**emanuelson-podas**  
consulting engineers

7705 Bush Lake Road  
Edina, MN 55439  
Tel: (952) 930-0050  
Fax: (952) 930-0777  
Email: cblissett@epinc.com  
www.epinc.com  
Established 1968  
Total in MN Office: 48  
Contact: Christopher Blissett,  
(952) 930-0050

**Firm Principals**

Michael A. Webert, PE  
Matthew W. Fults, PE  
Scott A. Vander Heiden, PE  
John K. Nordstrom, PE

Emanuelson-Podas (EP) a mechanical and electrical engineering firm specializing in the design of HVAC, building automation, plumbing, lighting, power, communications, life/safety, power generation and sustainable building systems, and offering full building commissioning services. A values-driven company, EP embraces a work approach rooted in collaboration and partnership. Key industry areas include the corporate, civic, education, fitness, financial, healthcare, hospitality, housing, industrial/manufacturing, municipal, restaurant, retail and worship sectors.

*Washington County Public Works, Stillwater, MN; The Wedge and Wedge Table, Minneapolis, MN; Higher Ground, St. Paul, MN; Life Time Fitness, nationwide; Blue Cross Blue Shield Auditorium, Eagan, MN; Machine Shop Event Center, Minneapolis, MN; St. Paul Public Schools, Highland Park Elementary and Horace Mann Elementary, St. Paul, MN; Shakopee Mdewakanton Sioux Community Cultural Center, Shakopee, MN*

**ENGINEERING  
DESIGN INITIATIVE**

1112 North Fifth Street  
Minneapolis, MN 55411  
Tel: (612) 343-5965  
Fax: (612) 343-5982  
Email: jhruby@edilimited.com  
www.edilimited.com  
Established 2002  
Total in MN Office: 23  
Contact: Jay Hruby, PE, (612) 343-5965

**Firm Principals**

Jay Hruby, PE  
Larry Svitak, PE

EDI provides mechanical engineering, electrical engineering, commissioning, low-voltage design, security design, energy & sustainability, lighting design, building modeling, central utilities.

*Hennepin County Walker Library, Minneapolis, MN; City of Roseville Fire Station #1, Roseville, MN; St. Paul Schools District Wide Security Upgrades, St. Paul, MN; Anoka County Highway Department Building, Andover, MN; Hennepin County E911/Dispatch Commissioning, Plymouth, MN; Beltrami County Jail Security Electronics Upgrade, Bemidji, MN; 35W Bridge Remembrance Garden, Minneapolis, MN; Sherburne County Government Center Courts, Elk River, MN*

**ERICKSEN ELLISON  
AND ASSOCIATES**

305 2nd Street NW, Suite 105  
New Brighton, MN 55112  
Tel: (651) 632-2300  
Fax: (651) 632-2397  
Email: tpeterson@eeaengineers.com  
www.eeaengineers.com  
Established 1954  
Total in MN Office: 19  
Contact: Todd Peterson, (651) 632-2320

**Firm Principals**

James H. Art, PE  
Terri A. Fleischhacker  
Todd A. Peterson, PE  
William F. Thiesse, PE

EEA is a mechanical/electrical engineering company with extensive experience in design and commissioning of Public Projects: judicial/correctional, libraries, government, and maintenance. Commercial: medical facilities, data centers, and retail. Education: recreation centers, libraries, laboratories, dormitories, and

campus centers; EEA has LEED certified engineers specializing in system modeling and innovative approaches for reducing energy consumption without sacrificing utility or comfort.

*Minneapolis Central Library (design/commissioning), Minneapolis, MN; Grinnell College New Campus Center (design and LEED certification review), Grinnell, IA; MCF Faribault Campus (energy infrastructure/renovation/new buildings), Faribault, MN; Unisys NAEC Data Center (design/commissioning), Eagan, MN; Macalester College (athletic/recreation center), St. Paul, MN; Bethel University Commons, Arden Hills, MN; Eli Lilly Corporate Data Center, Indianapolis, IN*

**ERA (ERICKSEN ROED  
& ASSOCIATES)**

2550 University Avenue West  
St. Paul, MN 55114  
Tel: (651) 251-7570  
Fax: (651) 251-7578  
Email: info@eraeng.com  
www.eraeng.com  
Established: 1984  
Total in MN Office: 62  
Total in Other Office: 9  
Other Office: Eau Claire, WI  
Contact: Kent Larson, (651) 414-6166

**Firm Principals**

Michael A. DeSutter, PE  
James D. Roed, PE  
William T. Buller, PE, SE

ERA (Ericksen Roed & Associates) provides full service structural engineering for a broad range of facility types. We pride ourselves on being a team of knowledgeable professionals, working toward the common goal of providing our clients affordable structures that stand the test of time.

*OATI New South Campus, Minneapolis, MN; Target Center Renovation, Minneapolis, MN; Higher Ground, St. Paul, MN; HCMC New Medical Building, Minneapolis, MN; St. Paul College Science & Alliance Center, St. Paul, MN; Prospect Park Apartments, Minneapolis, MN; Mayo Clinic Square, Minneapolis, MN; Life Time Fitness Projects, Nationwide*

**GAUSMAN & MOORE****Gausman  
& Moore**

1700 West Highway 36, Ste. 700  
Roseville, MN 55113  
Tel: (651) 639-9606  
Fax: (651) 639-9618  
Email: mleutgeb@gausman.com  
www.gausman.com  
Established 1935  
Total in MN Office: 38  
Total in Other Offices: 16  
Other Offices: Duluth, MN; Los Angeles, CA  
Contact: Mark Leutgeb, (651) 604-3141

**Firm Principals**

Edward Studniski, PE, LEED AP BD+C  
James Manning, PE, LEED AP BD+C  
Dave Blume, PE, LEED AP BD+C  
Paul Haslach, PE, LEED AP BD+C

A mechanical and electrical consulting engineering firm providing design services for corporate, government, health care, industrial, educational, and retail clients nationwide. Our specialized services include: sustainable design, commissioning, fire protection, forensic studies, arc flash studies, mission critical power systems, and productivity software development. Our staff includes 12 licensed Professional Engineers and 13 LEED Accredited Professionals. We are committed to innovative, timely, and sustainable solutions for your building needs.

*MN National Guard Armory, Brooklyn Park, MN; St. Louis County Virginia Government Service Center, Virginia, MN; Fergus Falls Library, Fergus Falls, MN; Petcos, nationwide; St. Luke's Clinic and MRI, Duluth, MN; Los Positas Microgrid, Livermore, CA; Target Corporation; Design Within Reach, nationwide*

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**HALLBERG ENGINEERING, INC.**

1750 Commerce Drive  
White Bear Lake, MN 55110  
Tel: (651) 748-1100  
Fax: (651) 748-9370  
Email: rlcio@hallbergengineering.com  
www.hallbergengineering.com  
Year Established 1979  
Total in MN Office: 43  
In Other Offices: 2  
Other Office: Duluth, MN  
Contact: Rick Lucio, (651) 748-1100

**Firm Principals**

Rick Lucio, PE LEED AP - CEO/Principal  
Paul Fetting, PE LEED AP - President/  
Principal

Established in 1979, Hallberg Engineering, Inc. (HEI) is an experienced full-service (MEP) consulting engineering firm with over 35 years experience. Located in White Bear Lake, MN, HEI specializes in mechanical, electrical and technology systems design, commissioning/recommissioning, building analysis and energy services. HEI is licensed in 49 states and 3 Canadian Provinces offering superior expertise in the education, retail, healthcare, government, corporate, industrial and entertainment/hospitality sectors. Hallberg is a Small and Minority Owned Business Enterprise (S/MBE) certified with the State of Minnesota.

Byron Primary School, Byron, MN; Bear Cave Intermediate School, Stewartville, MN; Eddie Bauer Stores, nationwide; Urban Outfitters, nationwide; University of St. Thomas Student Center, St. Paul, MN; Essentia Health, Duluth, MN; Coborn's Corporate Office, St. Cloud, MN

**HGA ARCHITECTS AND ENGINEERS**

420 North 5th Street, Ste. 100  
Minneapolis, MN 55401  
Tel: (612) 758-4000  
Fax: (612) 758-4199  
Email: info@hga.com  
www.hga.com  
Year Established 1953  
Total in MN Offices: 276  
Total in Other Offices: 493  
Other Offices: Rochester, MN; Milwaukee, WI; Los Angeles, CA; Sacramento, CA; San Francisco, CA; San Jose, CA; Washington DC  
Contact: Jennifer Haferbecker, Dir.  
Marketing (612) 758-4000

**Firm Principals**

Paul Asp, PE, SE LEED AP, Structural  
Chuck Cappellin, PE, LEED AP, Science, Technology/Manufacturing  
Pete Dahl, PhD, LEED AP, CEM, Energy & Sustainability  
Leighton Deer, PE, LEED AP, Sustainability  
Jeff Harris, PE, LEED AP, Mechanical  
Leigh Harrison, PE, LEED AP, Electrical  
Kenny Horns, PE, LEED AP, Civil  
Joe Wernetnach, PE, LEED AP Electrical

HGA offers Civil, Electrical, Mechanical, Structural and Industrial engineering services. HGA also has specialists in commissioning, clean environments, central plants, district energy, renewable energy production, energy master planning, energy saving, utility infrastructure, facility assessments, telecommunications systems, lighting and sustainable design. Our engineering teams work collaboratively with owners, stakeholders, contractors and architects to create comprehensive solutions that meet the needs of each project. With contemporary knowledge and extensive experience we deliver reliable solutions that achieve operational, aesthetic and sustainability goals with responsive, cost-effective service.

Minnesota State Capitol, St. Paul, MN;  
Walker Art Center Vineland Entry,  
Minneapolis, MN; Prairie Lakes Hospital  
Addition, Watertown, SD; Abbott  
Northwestern Hospital Chilled Water Plant  
Optimization, Minneapolis, MN; Carleton  
College Performance Commons, Northfield,  
MN; Brookview Community Center, Golden  
Valley, MN; Glacial Ridge Hospital Patient  
Addition, Glenwood, MN; Emerson Process  
Management Global HQ/Engineering &  
Design/Manufacturing, Shakopee, MN

**INSPEC, INC.**

5801 Duluth Street  
Minneapolis, MN 55422  
Tel: (763) 546-3434  
Fax: (763) 546-8669  
Email: fking@inspec.com  
www.inspec.com  
Year Established 1973  
Total in MN Office: 40  
In Other Offices: 10  
Other Offices: Milwaukee, WI; Chicago, IL  
Contact: Fred King, (763) 546-3434

**Firm Principals**

Mike Remington, PE  
Gary Patrick, AIA  
Dwight Benoy, PE

Award winning building envelope and civil engineers/architects and specialty consultants providing services for roofs, walls, windows, pavements, athletic tracks/ fields and waterproofing for the built, being built, and to be built environment. We provide an array of services including assessments, design, review, construction administration, testing, infrared, expert witness, planning and stormwater management. Building Enclosure Commissioning (BECx).

Minnesota State Capitol, St. Paul; State  
Office Building, St. Paul; Minnesota  
Department of Health & Human Services;  
K-12 Facilities, statewide; Hennepin, Anoka,  
Wright, Murray Counties; Medtronic,  
Thomson Reuters, St. Jude; MNSCU/  
University of Minnesota; Minnesota  
Department of Corrections

**KIMLEY-HORN****Kimley»Horn**

2550 University Avenue West, Ste. 238N  
St. Paul, MN 55114  
Tel: (651) 645-4197  
Email: tom.lincoln@kimley-horn.com  
www.kimley-horn.com  
Established 1967  
Total in MN Office: 165  
Other Offices: 80 Offices Nationwide  
Total in Other Offices: 2,800  
Contact: Thomas J. Lincoln, (651) 643-0453

**Firm Principals**

Thomas Lincoln, PE  
Will Matzek, PE  
Paul Danielson, PE  
Brian Smalkoski, PE, AICP, PTP, PTOE  
Jon Horn, PE  
Jeanne Witzig, AICP  
Chris Leverett, PE  
Michael Lamb, AICP

Kimley-Horn is a national consulting firm with a growing presence with nearly 120 professionals in its Twin Cities and Rochester offices, serving public and private sector clients across the Midwest. Kimley-Horn's capabilities encompass all phases of a project from early planning and due diligence through construction phase services. The firm effectively integrates planning, transportation planning, traffic engineering, transit design, civil engineering, structural engineering, and environmental services to efficiently meet the needs of our clients.

Nordhaus Mixed-Use Project, Minneapolis, MN; HealthPartners Parking Ramp and 8170 Improvements at Bloomington Central Station, Bloomington, MN; Rosedale Mall Expansion, Roseville, MN; 200 Central Avenue Apartments, Minneapolis, MN; Heart of the City Subdistrict Public Spaces, Rochester, MN; Rice Creek Commons (TCAAP), Arden Hills, MN; Regions Hospital Improvements, St. Paul, MN



**LARSON ENGINEERING**

3524 Labore Road  
White Bear Lake, MN 55110  
Tel: (651) 481-9120  
Fax: (651) 481-9201  
Email: info@larsonengr.com  
www.larsonengr.com  
Established 1979  
Total in MN Office: 57  
Other Offices: AZ, CO, GA, IA, IL, MO, ND, WI  
In Other Offices 147.5  
Contact: Ann Skeie, (651) 481-9120

**Firm Principals**

Lee Granquist, SE, PE  
Kesh Ramdular, PE  
Henry Voth, SE, PE

Larson Engineering specializes in structural and civil services. This includes new designs and remodels for industrial, commercial, retail, religious and residential facilities; as well as material handling systems and plant expansions. Larson provides site design, pavement maintenance services and athletic facility engineering services. Larson also excels in exterior cladding, curtain and masonry wall renovations and inspections.

YMCA, St. Cloud, MN; Coborns Delivers, St. Cloud, MN; Lino Lakes Fire Station, Lino Lakes, MN; Breck School, Minneapolis, MN

**LKPB ENGINEERS, INC.**

1935 West County Road B2, Suite 300  
St. Paul, MN 55113  
Tel: (651) 633-1223  
Fax: (651) 633-1355  
Email: karla.sampson@lkpb.com  
www.lkpb.com  
Year Established 1969  
Total in MN Office: 32  
In Other Offices: 8  
Other Offices: Rochester, MN  
Contact: Jeff Allman, (507) 424-6840

**Firm Principals**

John M. Killeen, PE  
Michael A. Westemeier, PE  
Allen V. Theisen, PE  
John Costello, PE  
Jeffrey G. Allman, PE

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LKPB Engineers provides full mechanical and electrical design consulting services, including specialties such as energy modeling, custom lighting, commissioning, and computational fluid dynamics. We give our clients comfortable, healthy buildings that operate efficiently, are easy to maintain, and have reduced long-term costs. LKPB offers superior expertise in the healthcare, education, corporate, commercial, historical, recreational and government environments.

U of MN Health Science Building, Minneapolis, MN; Marquette Plaza GSA 4th & 5th Floor Infill; Buhl Property 50 KW Solar Array Photovoltaics; 5th Street Towers Lobby & Skyway Lighting; Mayo Clinic Alfred Substation Replacements; Park Nicollet Eden Prairie Clinic Commissioning; Gustavus Adolphus Nobel Addition/ Renovation; Maine Heights Apartments, Phase Two

**MATTSON MACDONALD YOUNG, INC.**

901 North 3rd Street, Ste. 100  
Minneapolis, MN 55401  
Tel: (612) 827-7825  
Fax: (612) 827-0805  
Email: Stephanie@mattsonmacdonald.com  
www.mattsonmacdonald.com  
Established 1983  
Total in MN Office: 16  
Contact: Stephanie Young, (612) 827-7825

**Firm Principals**

David H. Macdonald, PE  
Stephanie J. Young, PE  
Joe A. Cain, PE  
Kenneth J. Green, PE  
Arlen P. Grant, PE

Mattson Macdonald Young is a full-service structural engineering firm providing innovative and economical design for a wide range of building types and sizes. With expertise in wood, light gauge, structural steel, concrete and masonry, our engineers collaborate with clients on everything from residential renovations to public sculptures to multi-million dollar high rises. Our history of client satisfaction is evident in our many long-standing

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relationships with architects, contractors, homeowners and other clients.

Higher Ground Building, Minneapolis, MN; Hmong Academy Addition, St. Paul, MN; Emanuel Housing, Minneapolis, MN; MnDOT Maintenance Facility, Maple Grove, MN; Pillsbury "A" Mill Design/Development Package, Minneapolis, MN; The Chambers Hotel, Minneapolis, MN; Lyndale Green Housing, Minneapolis, MN; "Homes by Architects" Tour, Multiple Residences.

**MEP ASSOCIATES, LLC**

860 Blue Gentian Road, Ste. 175  
Eagan, MN 55412  
Tel: (651) 379-9120  
Email: leahs@mepassociates.com  
www.mepassociates.com  
Year Established 2002  
Total in MN Office: 32  
In Other Offices: 60  
Other Offices: Rochester, MN; Iron Mountain, MI; Norman, OK; Eau Claire, WI; Verona, WI  
Contact: Leah Smith, (612) 910-9471

**Firm Principals**

Jeff Urlaub, PE, President  
Mike Luster, PE  
Larry Nemer, PE  
Randy Jacobs, PE  
Leah Smith, Business Development

MEP Associates, LLC is a full service, multi-disciplinary engineering firm focused on the design of sustainable, energy efficient solutions for projects nationwide. Our expertise includes mechanical, electrical, plumbing, fire protection, commissioning, 3D laser scanning and energy modeling services. We specialize in the design of geothermal, photovoltaic, solar, thermal storage, energy recovery, and other renewable technologies. Our core markets are Commercial, Higher Education, K-12, Healthcare, Government, Science and Technology and Campus Utilities.

Tashjian Bee & Pollinator Discovery Center, Chaska, MN; University of MN Athlete's Village, Minneapolis, MN; University of MN Microbiology Research Facility, Minneapolis,

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MN; The Hormel Institute Expansion, International Center for Research & Technology, Austin, MN; Carlton College Campus Utilities Master Plan and Utility Conversion, Northfield, MN; Ball State University Campus Geothermal Conversion, Muncie, IN; Rochester Fire Station, Rochester, MN; Northpoint Health and Wellness Center Expansion, Minneapolis, MN

**MEYER BORGMAN JOHNSON****MEYER BORGMAN JOHNSON**

STRUCTURAL DESIGN + ENGINEERING

510 Marquette Avenue South  
Minneapolis, MN 55402  
Tel: (612) 338-0713  
Fax: (612) 337-5325  
Email: mcurran@mbjeng.com  
www.mbjeng.com  
Established 1955  
Total in MN Office: 75  
In Other Offices: 16  
Other Offices: Duluth, MN; Rochester, MN; Green Bay, WI; Phoenix, AZ  
Contact: Murphy Curran, (612) 604-3623

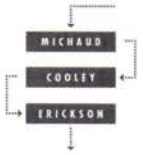
**Firm Principals**

Daniel Murphy, PE  
Jerod Hoffman, PE  
Jason Pederson, PE  
Kathleen John  
Matt Thomas, PE, SE  
Brion Szwed, PE  
Michael Ramerth, PE  
Alan Hiniker, PE

Thorough, responsive, and creative structural design and engineering for all building types. Providing design solutions that fulfill the architectural vision, while maintaining constructability and value to the owner. Services include design, analysis, feasibility studies, construction documents, field observation, special inspections, forensics, ramp condition surveys, preservation engineering, fabricator services, integrated steel design and detailing, and more.

311 Harvard Tower, Minneapolis, MN; City Center I, Rochester, MN; National Stadium Construction Phase Engineering (Vikings, Braves, Falcons); NAU International Pavilion, Flagstaff, AZ; TRIA Orthopaedic Center East Metro-City Place, Woodbury, MN; UMD Chemical and Material Sciences Building, Duluth, MN; University of Minnesota Tate Hall Renovation, Minneapolis, MN; Westin Hotel, Jackson, MS



**MICHAUD COOLEY ERICKSON**

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Minneapolis-based Michaud Cooley Erickson (MCE) designs and commissions mechanical, electrical, lighting, fire protection, security, technology systems and energy management solutions for buildings of any size and function. MCE's dedicated professionals specialize in engineering-intensive projects and efficient internal systems operations, devising innovative engineering solutions in aviation, corporate, healthcare, science & technology, mission critical, and other markets. Our clients include more than 80% of Minnesota's Fortune 500 companies and all of the state's top ten employers.

Metropolitan Airports Commission, Minneapolis, MN; US Bank, nationwide, USA; General Mills, Minneapolis, MN; Prudential, Plymouth, MN; 3M, Maplewood, MN; Land O'Lakes, Arden Hills, MN; Zeigler CAT, Bloomington, MN; University of Minnesota, Bell Museum

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Built on a solid foundation, Northern Technologies, LLC (NTI) leads the industry in geotechnical engineering, construction materials testing, and forensic engineering services. NTI provides comprehensive engineering and testing services to architects, engineers, owners, counties, municipalities, corporations, developers, and contractors. NTI offers responsive quality engineering and testing services with cost effective solutions for your project's design construction challenges. Let us demonstrate our commitment to service, value, dependability and technical excellence on your next project.

HCMC Ambulatory Clinic Building, Minneapolis, MN; A-Mill Artist Lofts, Minneapolis, MN; Burnsville-Eagan-Savage School District Facilities Additions, Burnsville, MN; University of Minnesota Athletes Village, Minneapolis, MN; Temple Israel Addition, Minneapolis, MN; RISE at Prospect Park, Minneapolis, MN; Maple Grove Parkway Station, Maple Grove, MN; Presbyterian Homes, Apple Valley, MN

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Andy Bartsch, PE LC

Overmiller Nelson Engineering, Inc. (ONE) delivers success to our clients by providing professional, detailed Mechanical, Electrical and Civil design and coordination for building systems. Since 1992, our clients have received the full attention of professional, knowledgeable engineers through every phase of their project. Our Team Members provide the workforce and experience to accommodate several different project types. With licensed Mechanical Engineers, Electrical Engineers, Civil Engineers, Fire Protection Engineers (FPE), LEED Accredited Professionals and our Commissioning Services Professionals on staff, ONE strives to provide our clients with the highest quality of engineering services.

UND School of Medicine, Grand Forks, ND; Williston Recreation Center, Williston, ND; U of M Crookston Lysaker Wellness Center, Crookston, MN; Concordia Integrated Science, Moorhead, MN; Sanford Moorhead Clinic, Moorhead, MN; Grand Forks Ralph Engelstad Arena, Grand Forks, ND; UND Gorecki Alumni Center, Grand Forks, ND; First LEED Platinum in ND; St Cloud National Hockey Center, St Cloud, MN

**SHORT ELLIOTT HENDRICKSON INC. (SEH)**

Building a Better World  
for All of Us®

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SEH is an employee-owned company of engineers, architects, planners, and scientists serving public and private sector clients. Our work provides valuable solutions in the Buildings, Energy, Environmental, Infrastructure, Transportation, and Water markets and is focused on Building a Better World for All of Us®. We assist municipalities across the country with comprehensive municipal infrastructure services. We work as an extension of a community's staff, we help manage infrastructure assets—both day-to-day and for the long-term.

Cub Foods Fit Out, Oakdale, MN; Cub Foods New Store, Blaine, MN; Landfill Monitoring, Red Wing, MN; Water Treatment Plant Improv., Savage, MN; Cedar Grove Station, Minneapolis, MN; Lake Street Station, Minneapolis, MN; Prairie Holdings, Worthington, MN; Maverick LLC Trucking & Service, Portage, IN



**SUMMIT FIRE CONSULTING**

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Building and fire codes, alternate designs/code equivalencies, smoke control and management systems, smoke management special inspections, means of egress, fire sprinklers, clean agents, fire alarm, hazardous materials and structural fire protection. Project types include assembly occupancies, commercial, corporate, data center, educational, governmental, healthcare, historic, industrial, lab, process, residential, sports and storage.

*US Bank (Vikings) Stadium, Minneapolis, MN; Mall of America, Bloomington, MN; AC Marriot, Minneapolis, MN; 3M Multiple Buildings & Labs, Maplewood, MN; Glacial Lakes Energy, Watertown, SD; Target Center, Minneapolis, MN; VA Medical Center St. Cloud, MN; Minneapolis/St. Paul (MSP) International Airport*

**TKDA**

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Single source, multidisciplinary firm serving clients in the following markets: Corporate + Industrial, Education, Government, and Mining. Services include: Mechanical, Electrical, Structural, and Civil/ Site Engineering; and Architecture, Interiors, and Landscape Architecture. Systems: Structural and Architectural Building Systems; Boiler and Chiller, Process Piping, HVAC, Plumbing, and Fire Protection; Power Distribution, Lighting, Fire Alarm, Security, Instrumentation and Controls; Access Roads, Parking Lots, Utilities, Water Supply, Water and Wastewater Treatment.

*Austin Utilities, Central Facility, Austin, MN; Metropolitan Council Environmental Services - Wastewater Treatment Plant Upgrades, Minneapolis-St. Paul Metro Area; Metro Transit - Ongoing Architectural, Mechanical, Electrical, Structural, Civil Projects, Minneapolis, MN; Saint Paul Public Schools - Johnson High School Addition & Renovation, Saint Paul, MN; Dakota County Technical College - Transportation & Emerging Technologies, Rosemount, MN; Xcel Energy - Ongoing Architectural, Mechanical, Electrical, Structural, Civil Projects, MN & WI; 3M Company - Ongoing Architectural, Mechanical, Electrical, Structural, Civil Projects; Nationwide; United Taconite - Ventilation Study; Forbes, MN*

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Andy LaPalme, PE  
Quin Vincent  
Kelsey Brown, PE, SE  
Shawn Shahriar, PE

VAA appreciates architectural design priorities, recognizes other engineering disciplines and listens to owner project objectives. We offer civil and structural engineering services for commercial and industrial buildings, including corporate, medical, retail, hospitality and Government project types. We are experts in seismic design and progressive collapse and frequently use 3D modeling for our design efforts. Nationwide experience with architects, contractors and owners has provided opportunities for us to work with regional construction techniques and materials.

*Veterans Affairs Medical Center, Minneapolis, MN; Disney Springs The BOATHOUSE, Lake Buena Vista, FL; Maple Grove Junior High School Gym Expansion, Maple Grove, MN; Target Corporation, Nationwide; Camp Ripley Education Complex Addition, Little Falls, MN; MN Veterans Home Building 22, Minneapolis, MN; Roseville Fire Station #1, Roseville, MN; Harrah's Cherokee Valley River Casino, Murphy, NC*

**WENCK**

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Will Jensen

Wenck is a single organization that offers many specialized services spanning strategic engineering, environmental and consulting services; construction and project management; and emergency spill response and remediation. The company was founded over 30 years ago in Minneapolis and now features 13 branch offices in six states strategically located around the country. Today, we have 275+ staff dedicated to delivering our public- and private-sector clients outcomes that meet their specific needs and exceed their expectations.

*Meridian Behavioral Health: Beauverre & Oakridge; Eddy's Resort; Fridley Civic Complex; City of Rockford Downtown Improvements; Rice Creek Commons (former TCAAP site); Cottageville Park; Rochester Public Utilities Westside Energy Station; Great River School*



## HDR

### Page 28

Location: Minneapolis, Minnesota  
 Client: HDR  
 Architect: HDR  
 Principal-in-charge:  
 James W. Thomson, AIA  
 Project lead designer:  
 Mike Rodríguez, AIA  
 Project manager:  
 Michael R. Nelson, AIA  
 Energy modeling: Paulson Clark  
 Engineering, Inc.  
 Structural engineer: Paulson Clark  
 Engineering, Inc.  
 Mechanical engineer: Paulson Clark  
 Engineering, Inc.  
 Electrical engineer: Paulson Clark  
 Engineering, Inc.  
 Lighting designer: HDR  
 Interior designer: HDR  
 General contractor: Gardner  
 Builders, Inc.  
 Cabinetwork: Cambria, Commercial  
 Fixtures Inc.  
 Flooring systems/materials:  
 Commercial Interiors Inc.  
 Window systems: United Glass, Inc.  
 Millwork: Commercial Fixtures Inc.  
 Photography: Courtesy of HDR  
 Architecture, Inc.; ©2016 Corey Gaffer

## 3M Design Center

### Page 32

Location: St. Paul, Minnesota  
 Client: 3M Design  
 Creative director: Eric Quint, IDSA  
 Architect: MSR Design  
 Principal-in-charge: Josh Stowers, AIA  
 Project lead designer: Rachelle  
 Schoessler Lynn  
 Project manager: Dagmara Larsen  
 Project architect: Josh Stowers, AIA  
 Project team: Jason Cain; Eric Frahm;  
 Brent Freeby; Mitch Karr; Ken Martin;  
 Veronica McCracken  
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 Mechanical; The Weidt Group  
 Structural engineer: Meyer Borgman  
 Johnson (MBJ)  
 Mechanical engineer: Horowitz  
 and Master Mechanical  
 Electrical engineer: Hunt Electric  
 Lighting designer: Gallina Design LLC  
 Interior designer: MSR Design  
 General contractor: Ryan Companies  
 Landscape architect: Damon Farber  
 Associates  
 Photography: 3M Design



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*St. Paul's Monastery is now home to Tubman Center East. Tubman helps women, children, and families struggling with relationship violence, substance abuse, and mental health.*



*"Architect Val Michelson's 1965 St. Paul's Monastery in Maplewood, Minnesota, has a number of unique design features," says photographer **Morgan Sheff**. "I'm particularly drawn to the way light and shadow accentuate the bold geometry of the open stairway on the south end of the residence hall. The blend of Kasota stone and exposed structural concrete is perfect."*