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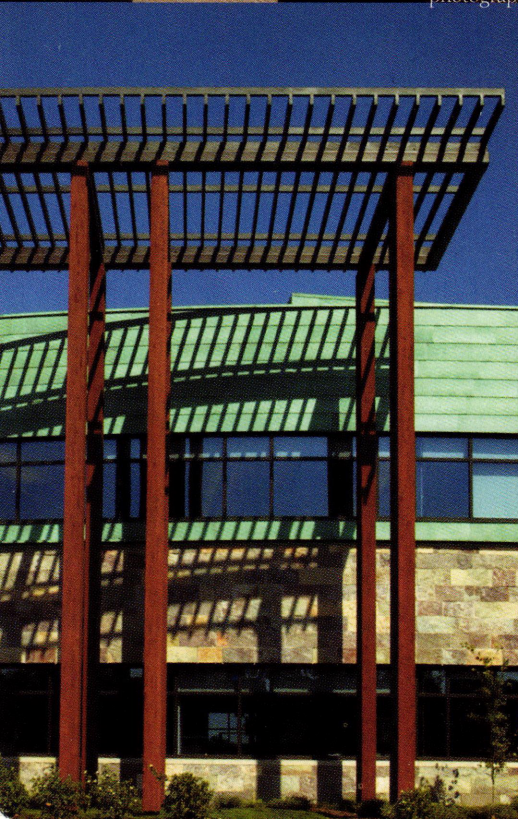
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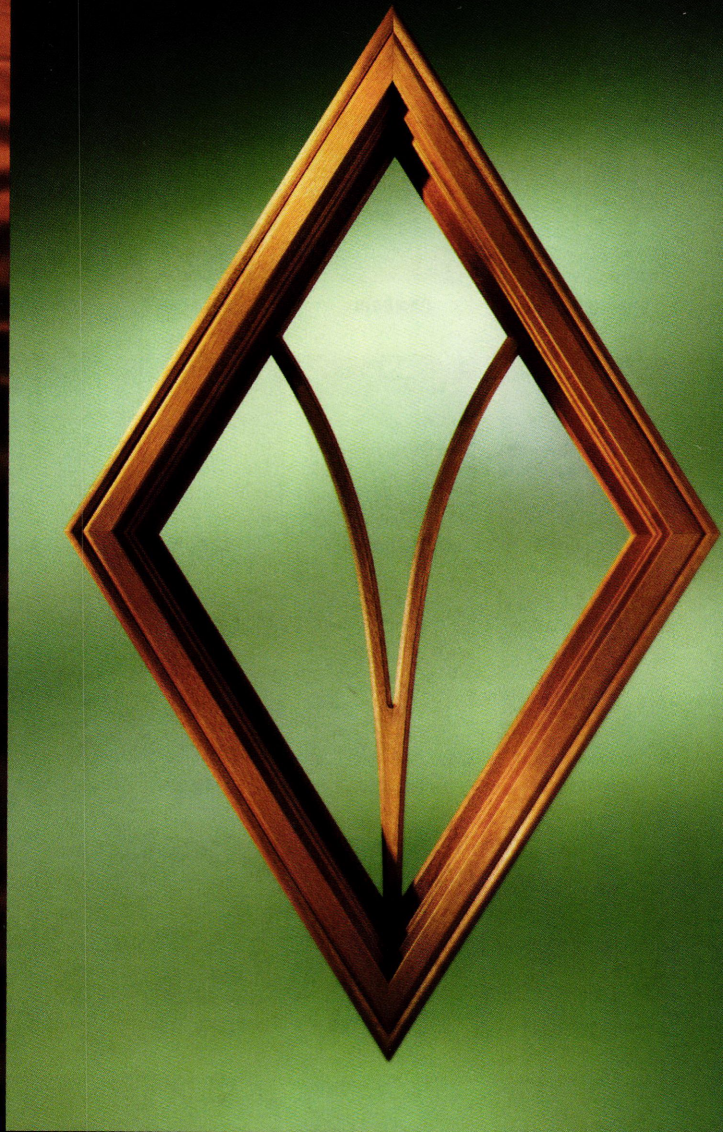
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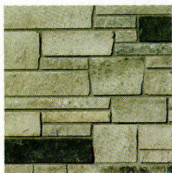
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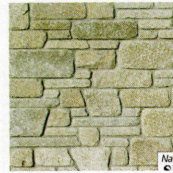
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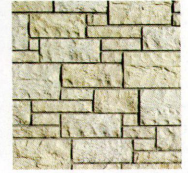
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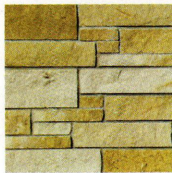
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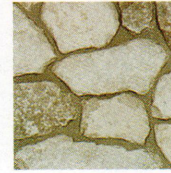
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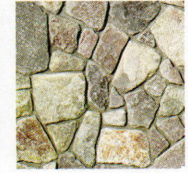
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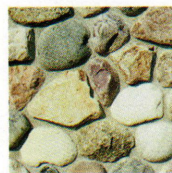
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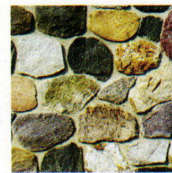
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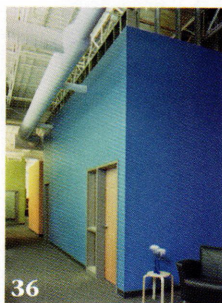
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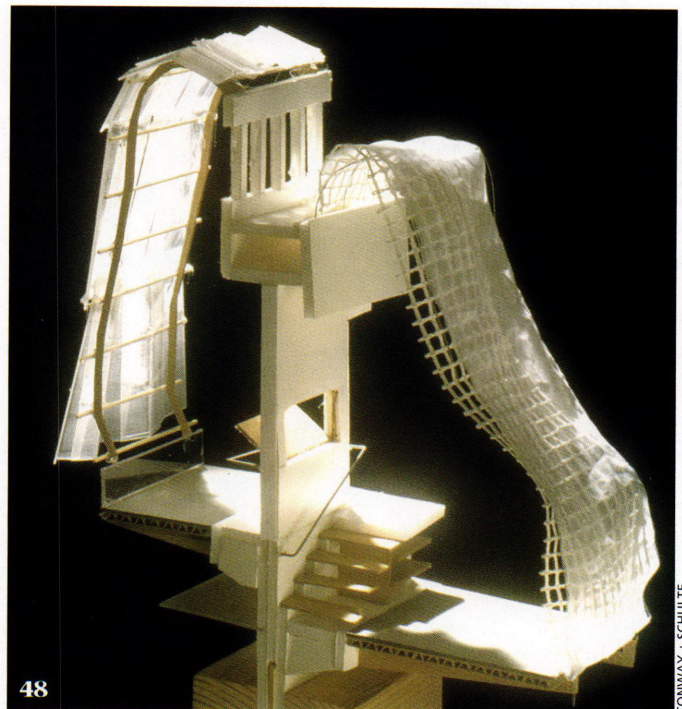
JUDY GRUNDSTROM, AIA

## Cover

Bet Shalom Synagogue  
Architect: Bentz/Thompson/Rietow, Inc.  
Photographer: Philip Prowse



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## Architecture Minnesota Mission Statement

*Architecture Minnesota*, the primary public outreach tool of the American Institute of Architects Minnesota, is published to educate 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.



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# Transitions

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**DON F. WONG** is a registered architect turned architectural photographer who has won two AIA National awards for photography.

For almost 15 years now, I've had the pleasure of your company, first as a freelance writer and copyeditor for this magazine, then as its editor. As I stumbled through my first Practice column (then called Insight) back in the early 1990s, I had little inkling that I'd be in charge of *Architecture Minnesota* at the turn of the century, shepherding the magazine into a new millennium that would present unforeseen challenges to the architectural profession, usher in a new era of terrorism and war, and herald a period of architectural creativity and innovation matched only by a public interest in and enthusiasm for architecture that had been dormant for decades.

As editor of *Architecture Minnesota*, and thus as a public representative of AIA Minnesota, I've striven to fulfill the magazine's mission as the primary public-outreach tool of the association through inclusiveness and accessibility, while broadening readers' understanding of architecture to include its cultural contexts and social ramifications. Editions of the magazine that focused on such topics as sustainable design, architecture and culture, the repercussions of 9/11, healing environments and design democracy were attempts to expand readers' notions of the role of architects and architecture in the 21st century. Curiously, this edition of the magazine concludes my tenure on a lighter note.

Architectural innovations are prevalent throughout the stories in these pages. The Technology column on the ascent of smart buildings and services points to architects' leadership role in incorporating such systems into today's buildings, as well as the challenges these technologies pose. Bentz/Thompson/Rietow arrived at an array of stunning, creative solutions—including movable walls and an intersecting hexagonal/circular geometry—in designing a new synagogue for the Bet Shalom congregation.

To clean up the Minneapolis City Hall rotunda, MacDonald & Mack led a team to formulate new products that have left the historic interior glistening. Collaborative Design Group walked its client through a design process that resulted in a minimalist, yet playful space in which light and

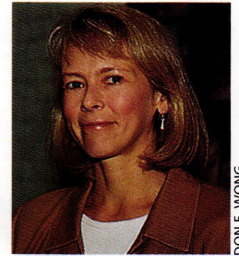
materiality support the important work of child-care education.

RSP took an icon of South Minneapolis, the former Honeywell campus, and knitted its buildings together while transforming their dark, claustrophobic, labyrinthine interiors into flexible, light-filled spaces for a contemporary workforce. And an article on the art and craft of model making takes readers behind the scenes to the intricate, problem-solving world of building architectural models, an essential part of the design process.

In Talking Point, Bill Beyer, FAIA, includes a quote from author Ralph Caplan: "Design is a process of making things right, for shaping what people need." While working on each edition of *Architecture Minnesota*—whether it's been the annual interiors, housing or Honor Awards editions, or a special topic—I've always felt that, just as in architecture, it was essential to maintain and envision the big picture while attending to every detail, in order to shape a magazine for AIA Minnesota that was right and what readers needed.

It's been a marvelous experience serving as editor of *Architecture Minnesota*; one full of continual opportunities for intellectual growth, peppered with challenges that tested and strengthened my acumen as a professional writer and editor, and blessed with such rewards as enduring friendships, the camaraderie of the exemplary AIA Minnesota staff (of whom I remain in awe and gratitude), and an understanding of the built environment that will deepen as I continue to write about architecture for this magazine and others.

In short, thank you for the opportunity. And I'll talk to you soon.



DON F. WONG

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## Calendar

### September 10–October 30

#### Architectural Exhibitions 2004

Rochester Art Center  
Rochester, Minnesota  
(507) 282-8629

[www.rochesterartcenter.org](http://www.rochesterartcenter.org)

The exhibitions include a historical survey, "Pioneer to Neo-Modern: 150 Years of Rochester Architecture"; a compilation of designs by Kara Hill, AIA, Hammel, Green and Abrahamson, Inc., Minneapolis; a study of the Gonda Building at the Mayo Clinic campus; and selected public and corporate buildings by Rochester architecture firms. A lecture series corresponds with the exhibitions.

### September 14

#### Sacred Space, Common Ground

United Theological Seminary of the Twin Cities  
New Brighton, Minnesota  
(651) 633-4311

[www.unitedseminary-mn.org](http://www.unitedseminary-mn.org)

The seminary celebrates the completion of the Bigelow Chapel with a panel discussion featuring Joan Soranno, AIA, and John Cook, AIA, Hammel, Green and Abrahamson, Inc., who designed the building. Also on the panel are seminary president Wilson Yates and Tom Schwab of M. A. Mortenson Company, with *Star Tribune* architecture critic Linda Mack as moderator.

### September 19

#### These Old Houses:

#### Summit Hill House Tour

Summit Hill Association  
St. Paul, Minnesota  
(651) 223-9866

This biennial event is a fundraiser for the Summit Hill Association and showcases 15 residences, including mansions on St. Paul's famed Summit Avenue.

### September 30–October 1

#### Sustainable Communities:

#### Learning from the Dutch Experience

Hermann Union Building  
Illinois Institute of Technology  
Chicago, Illinois

(312) 856-0110 x543

[www.dutchsustainablecommunities.com](http://www.dutchsustainablecommunities.com)

This international symposium features world-renowned speakers from the Netherlands and Chicago, and will highlight innovations in green design, environmental safety, public policy, architecture and design.

### October 1–2

#### CALA Reunion

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(612) 626-9068  
[www.cala.umn.edu](http://www.cala.umn.edu)

CALA graduates from 1954 to 1984—the tenure of Ralph Rapson, FAIA, as head of the architecture school—are invited to attend this weekend reunion with many events, including a celebration of Rapson's 90th birthday.

### October 15–16

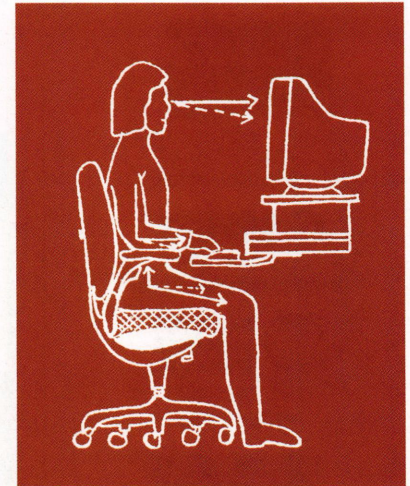
#### Public Space, Public Good

College of Architecture and Landscape Architecture  
University of Minnesota  
Minneapolis, Minnesota  
(612) 626-1832  
[www.cala.umn.edu/symposium](http://www.cala.umn.edu/symposium)

At this two-day symposium, practitioners and historians examine the ways in which landscape architects, architects and urban designers address the public interest in their work, and they discuss the role of space in shaping civic life, the role of the designer as a public practitioner, and the relationships between public and private realms.

## INSIDER LINGO *By Gina Gensing*

### Ergonomics



Most people think ergonomics is solely a workplace phenomenon related to how seating and workstations are configured for maximum comfort and minimum injury. Ergonomics, however, encompasses much more. It's actually a science that goes by the name of "human-factors engineering." Drawing on the principles of industrial engineering, psychology, anthropometry (the science of human measurement) and biomechanics (the study of muscular activity), ergonomics is used in the design of everything from tennis rackets to fighter-jet cockpits. Anything humans use—from objects to systems—employs this scientific information, if it's well-designed. Without ergonomics, people are prone to inefficiency, errors, and physical or mental detriments. So while sitting at your desk, lying on your couch, brushing your teeth or standing at the copier, make note of how ergonomics was used to make that experience fit you.

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# AIA Minnesota

## 2004 Young Architects Award

Four members of AIA Minnesota have received the association's 2004 Young Architects Award. The award is given to architects who are members of AIA Minnesota, have been licensed for less than 10 years, and have shown exceptional leadership in service to the profession, the community, design, planning and/or education. The submissions included letters of recommendation from clients and AIA Minnesota member architects; project summaries highlighting the architects' particular contributions; photos and drawings; and documentation of other achievements. The jury consisted of E. Tim Carl, AIA, chair, AIA Minnesota Awards Committee, and awards-committee members Nancy Blankford, AIA, Christine Albertsson, AIA, Ligeia Uker, Assoc. AIA, F. John Barbour, AIA, Raymond Dehn, Assoc. AIA, and Paul Neuhaus, AIA.



**William Baxley, AIA.** The jurors credited Baxley, design partner, BKV Group, Minneapolis, with creative design, attention to detail and a high degree of client sensitivity. "He's very service-oriented," the jury explained. "It's apparent that the client is at the forefront of the process

for Bill." In a nomination letter, one client said that "Bill's unique ability to meld his professional dedication and personal ethics is unsurpassed. His relentless pursuit of our vision and masterful interpretation of our abstract responses led to the award-winning design of an office space we couldn't be more pleased with." His portfolio includes: Edina City Hall (Edina, MN); Maple Grove Government Center (Maple Grove, MN); and the AIA Minnesota Honor Award-winning Two Popes Film (Minneapolis, MN).



**Nina Ebbighausen, AIA.** Her belief that architecture carries both enormous potential and social responsibility has led Ebbighausen, associate, Architectural Alliance, Minneapolis, to her long-standing involvement and leadership in architectural education, and to a career focused on public

work and teaching. "Her passion for architecture and working with people," the jury commented, "have melded together for a very promising career that greatly benefits our communities and future architects." In a nomination letter, a client noted, "She is a careful listener and exhibits a genuine curiosity and empathy for the viewpoint and opinions of others." A student wrote that "Nina focused each project discussion on the real world fundamentals of architecture. She related to and inspired all of her students on an individual level." Ebbighausen's portfolio includes: Minneapolis Central Library (Minneapolis, MN); Texas Culinary Academy (Austin, TX); and Whittier Elementary School for the Arts (Minneapolis, MN).



**Michael Kennedy, AIA.** "Michael's intense involvement and stewardship on powerful projects showcase his design talent and skill in carrying forward very complicated designs with diverse clients," the jury commented. The jury also noted that Kennedy, design director, Ellerbe Becket, Minneapolis,

"is a listener with no stylistic agenda and communicator who clients respect." Fellow architects writing nomination letters added, "Michael has always had an impact with his solid professional character. In all his responsibilities, his conduct is a model of ethical behavior." Kennedy's impressive portfolio of healthcare facilities includes: the Gonda Building at Mayo Clinic (Rochester, MN); and New Severance Hospital, Yonsei University Medical Center (Seoul, South Korea). "His dedication and commitment in this field have allowed him to rise to the top," the jury said.



**Stephanie Richards McDaniel, AIA.** After reviewing her nomination materials, the jury found that McDaniel, project architect, BWBR Architects, St. Paul, has sought opportunities to give back to her community, the environment and her profession and has created opportunities where none existed.

"She's logged a lot of volunteer hours making waves and affecting change, never just going through the motions," the jury said. Impressed by the many activities in which she is involved, the leadership roles she has taken on as an architect and a teacher, and the length and depth of her contributions, the jury commented, "She is practicing in the profession of architecture, yet has never lost sight of the important element of learning." In addition, her passion for sustainable design is evidenced in such projects as: Neighborhood House/The Paul and Sheila Wellstone Center for Community Building (St. Paul, MN); the Ramsey County Public Works Facility (Arden Hills, MN); and the East Metro Transit Facility (St. Paul, MN).

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AIA Minnesota's annual convention is one of the largest and most successful conferences organized by an AIA component, consistently delivering high-quality programs, engaging keynote presentations and an Exhibit Hall brimming with products, services and information. This year's convention will be held at the Minneapolis Convention Center, November 2-5. The theme, "Building Common Ground," focuses on how architects must work together with public servants and allied professionals to create the built environment and shape public policy. Through this theme, the convention will also explore efforts to encourage diversity and inclusiveness within the architectural profession and AIA.

The convention offers more than 50 programs on topics of interest to the emerging professional, the seasoned architect and the public alike. Topics on this year's roster include livable communities, sustainable design, affordable housing and the value of good design. Keynote speakers and concurrent sessions provide the chance to learn about other subjects related to architecture and business, and offer architects the opportunity to earn continuing-education credit necessary for licensure.

The Exhibit Hall at the convention will include more than 200 exhibitors' booths full of interesting products and services. Free and open to the public, visitors to the hall can learn about a multitude of building materials, as well as architecture-related organizations and AIA Minnesota committees' activities. To find out which companies will be exhibiting this year visit the 2004 Exhibitor List at [www.aia-mn.org](http://www.aia-mn.org). Register on-line for the convention at [www.aia-mn.org](http://www.aia-mn.org). For more information call (612) 338-6763.

### Keynote speakers include:



**Craig Curtis**, partner, Miller/Hull Partnership, Seattle, WA. The firm won the 2003 AIA National Firm Award and Curtis will discuss his firm's innovative work.



**Christian Moeller**, professor, Department of Design & Media Arts, UCLA, will present his unique interactive installations of architecture, light and sound.



**Peter Park**, director of planning, Denver, CO, formerly the planning director for Milwaukee and leader of the Architecture/Urban Planning program at the University of Wisconsin, Milwaukee, will discuss his experiences with urban design.



**John Miller**, author of *The Question Behind the Question*, and founder of QBQ, Inc., an organizational development firm based in Denver, CO, will explore the need in today's business culture for personal responsibility.

### 2004 Honor Award jurors are:

**Jeanne Gang, AIA**, principal, Studio Gang Architects, Chicago, IL. Prior to founding Studio Gang Architects, Gang worked with OMA/Rem Koolhaas in Rotterdam, Netherlands, and Booth Hansen Associates in Chicago. She currently teaches at the Harvard Graduate School of Design.



**James Stewart Polshek, FAIA**, is founder and senior design partner, Polshek Partnership Architects, New York City, NY. Awarded the AIA/New York Medal of Honor in 1986, Polshek has led his firm across a vast spectrum of architectural endeavors including new building design, historic preservation and adaptive reuse, and planning.



**Ron Radziner, AIA**, is design principal, Marmol Radziner + Associates, Los Angeles, CA. In 1989, Radziner launched a unique design-build practice that has developed a reputation for its design approaches, research and application of construction standards.



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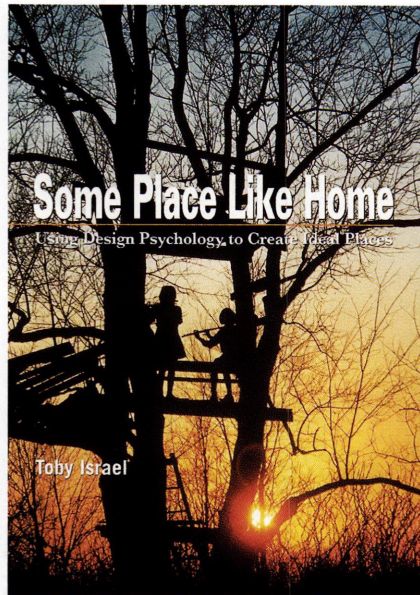
# The Power of People and Place

*Some Place Like Home:  
Using Design Psychology  
to Create Ideal Places*

By Toby Israel, Ph.D.

Published by John Wiley & Sons, Ltd.

REVIEWED BY  
JOAN VORDERBRUGGEN



Before reading this article, try this exercise. Find a place to sit quietly. Get comfortable and let the distractions of the moment pass by. Close your eyes as you inhale...then exhale.... Let your mind drift back to your childhood and recall a favorite environment in which you spent time. Mom's kitchen? A sunny window? A large front porch? Now, open your eyes and continue reading.

Everyone has a unique environmental autobiography that remains with him or her throughout life, and which influences choices in interior living and working environments. The above exercise is one of many tools design psychologist Toby Israel might use to help an individual or group acquire insight into such a self-place connection. Just as artists and writers integrate the past into their work, so do architects, designers and their clients, many times returning to the most magical memories of childhood when creating spaces. Now this process has a name—design psychology—and one of its foremost practitioners is Israel, who explores the process in *Some Place Like Home: Using Design Psychology to Create Ideal Places*.

An environmental/design psychologist, Israel defines design psychology as “the

practice of planning, architecture and interior design in which psychology is the design tool,” adding that it’s “a useable programming technique which can help ‘match’ people and place at the deepest possible level.” While the ideas underlying design psychology have certainly been around for decades, the challenge for the discipline has been to integrate itself into the actual design process. In her book, Israel says that the use of design psychology provides an essential counterpoint to the technical aspects of architecture and design and is critical to a more holistic approach within these professions.

To illustrate design psychology’s relevance to the architectural profession, Israel’s book includes interviews with three “greats” of the architectural world who have dedicated much energy toward the design of their own homes: Michael Graves, FAIA, New Urbanist Andres Duany and architecture critic Charles Jenks. Through discussions with these men, which are accompanied by photos and sketches of their past and present living environments, Israel plays out her theory. While Graves and Duany are surprised at the connections she makes between their personal histories and current work, Jenks

is a harder sell, yet he concedes there are remarkable coincidences.


Israel goes on to explain the process of design psychology and how architects and designers can incorporate it into their design process. Although the book’s title suggests design psychology is the domain of residential design, Israel explains how the process can also be applied to design processes used by building and planning committees. For example, Israel asked several school representatives, who were collaborating with an architectural firm in the planning of a charter school, to recall memories of their past educational environments and choose the “highest positive” of those images. The words they used to describe their memories resulted in a vocabulary the architectural team used to articulate design decisions.

Once the reader gains an understanding of design psychology, Israel contends, it can be used as a marketing tool in proposals, specifically in conjunction with programming spaces. The book includes a chapter titled “The Design Psychology Toolbox,” as well as examples that help architects and designers delve more deeply into the design process. Implementing design psychology into projects doesn’t eat up time or budget, Israel adds. On the contrary, the process helps focus the client and designer, provides a stronger foundation for design, results in a value-added service and helps forge better relationships between client and designer.

Most architects are trained to consider buildings as shelter and/or sculptural elements, Israel says. Architectural education focuses on history, theory, and the aesthetic principles of shape, form, texture, balance, rhythm and mass. “[W]ith the advent of CAD, designers are becoming increasingly intoxicated with the potential of computer-aided design to expand their technological capabilities,” she adds.

“While the capabilities of CAD are wonderful,” she continues, “the danger is that,

*Continued on page 53*



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# Now, Then and Renewed

BY BETTE HAMMEL

## Brookdale Resource Library and Hennepin County Regional Service Center

designed by **Loren E. Abraham, AIA, Abraham + Associates, L.L.C.**, Hastings, in association with **Tom Dunwell, AIA**, and **Modris Feders, AIA, Buetow & Associates, Inc.**, St. Paul, opened this summer. Occupying a 13.35-acre site, the mainly one-story complex adds 80,000 square feet of new space to the original 1980 building, designed by former Minneapolis firm **Hodne/Stageberg Partners**. The addition features a spectacular three-story glass rotunda at the library entrance, and a two-story circulation spine and rotunda on the opposite end that serves the district-courts facility. Large areas of azure-colored glass enclose the library's façade, while rough-hewn Mankato limestone clads the base. Inside, the design team used a "main-street" concept, reinforced above by clerestory windows and at ground level by a patterned-terrazzo floor. Off the main street, "boulevards" separate various library areas while creating an effective circulation pattern. The original library was also renovated and seamlessly integrated into the expansive new Brookdale Library to meet the needs of one of Hennepin County's most culturally diverse populations. ❖

## A Summit Avenue mansion

brimming with history was recently restored by **Gar Hargens, AIA**, principal, **Close Associates**, Minneapolis. The 40-room, brick Beaux Arts-style St. Paul house was built in 1902 as a wedding gift from railroad giant James J. Hill to his son Louis Hill. The house served several different owners, mainly organizations, until it was purchased by St. Paul history buffs Dick and Nancy Nicolson in 2001. Fortunately the cypress-paneled ballroom, with its ornate ceiling of geometric-patterned wood and plaster, needed only cleaning, along with new cove lighting and skylights. The largest chandelier, which had been moved but saved, was reinstalled. The luxurious dining room, with carved-mahogany paneling, was largely intact and features James J. Hill's boardroom table. According to Hargens, many changes were invisible, such as modern heating and cooling systems, electrical wiring and windows. The design team also converted the butler's pantry into a modern kitchen, carved a garage out of the basement, rehabbed the main-level terraces and added blue-stone terraces off the loggia overlooking the city. ❖

## Coeur de Catherine

is an airy light-filled, three-story atrium that links the renovated library building and the former St. Joseph Hall at the College of St. Catherine campus in St. Paul. Off the circular-shaped atrium are three new floors that provide students with a ballroom/gathering room, spacious lounge areas, coffee shop, bookstore, meeting rooms and cozy study areas. Three architectural firms and two contractors were involved in this complex design/build project, which was coordinated by **Linda McCracken Hunt, AIA**, principal, **Studio Five Architects, Inc.**, Minneapolis, as owner's representative: Shepley Bulfinch Richardson Abbott, Boston; Opus Northwest and **Opus Architects & Engineers, Inc.**, Minneapolis; McGough Construction, Minneapolis; and **Hammel, Green and Abrahamson, Inc.**, Minneapolis. ❖

## Nowhaus

once a typical 1950s urban rambler, has been transformed into a Modernist home by **Locus Architecture, Ltd.**, Minneapolis. Principals **Wynne Yelland, AIA**, and **Paul Neseth, AIA**, set out to prove that designing a house that incorporates reused and unusual materials, passive solar heating, and a flurry of other ideas could provide a family with a stylish urban loft, while maintaining the green space typical in many city neighborhoods. One of the architects' most innovative ideas is the exterior cladding, which is fashioned from vinyl billboard materials covered with sheets of translucent polycarbonate siding. The contemporary interior is warm and inviting, with walls of birch-veneer paneling, corner walls of glass, a fireplace clad in steel plate, concrete floors etch-stained a mottled saddle brown and a floating steel catwalk hanging overhead. In the dining room is a spacious, wipe-off wall for kids to draw on, while upstairs bedrooms are outfitted with wood paneling and windows in a variety of shapes. A sculptural-steel stairway leads to an open third floor. Locus hopes Nowhaus will be the first of a series of homes celebrating sustainable architecture in traditional urban neighborhoods. ❖

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# Glensheen Mansion

Duluth, Minnesota

BY ROBERT ROSCOE

Clarence H. Johnston has been called the greatest architect of the early 20th century in Minnesota. His handling of architectural styles in vogue during that time, through such projects as government buildings, educational facilities, and various public and institutional structures, continue to express in their elegant monumentality the emerging maturity of the state in the early 1900s.

Johnston's collaboration in the design of the Chester and Clara Congdon Mansion, popularly known as Glensheen, on London Road in Duluth along the shore of Lake Superior, ranks high on his list of master works and is often called "Duluth's American Castle." The name Glensheen derives from the term "glen," describing a wooded area, and "sheen," which has two possible sources: the name of a village in Surrey, England, and a description of the placid waters of Lake Superior during its less turbulent moods.

In addition to the mansion on the Congdon seven-acre estate, Johnston also designed the carriage house, the gardener's cottage and a boathouse. Charles Leavitt Jr.'s landscape design for the grounds includes a footbridge, fountains, a brook, and extensive plantings of trees and flowers, with much attention devoted to conserving native flora. Today, under ownership by the University of Minnesota, Duluth, the 39-room mansion brings 80,000 visitors to the city, who view a resplendent array of period-designed rooms throughout the mansion's interior.

Glensheen's exterior architectural features are in good condition and, remarkably, the interior hasn't undergone any floor-plan alterations since the building's 1905-09 construction. Many of the interior spaces, however, are suffering varying degrees of degradation because of deferred maintenance. Material decay and wear, improper cleaning methods and lack of thorough management have diminished the surface quality of many rooms. In addition, some stenciled surfaces have been painted over, some of the Art Nouveau furniture has been spray painted, and walls and ceilings on the upper floor have water damage from roof leaks. While restoration measures are in the planning stage at this time, the financial resources to do the work are lacking.

Johnston designed the mansion in the Jacobean Revival style for iron-mining magnate Chester Congdon, his wife Clara and their six children. The Congdons chose the lakeside site, which features gently sloping terrain, as the setting for an English-influenced

manor house surrounded by formal gardens—a contrast with the Minnesota regionalism of the rugged lakeshore. Unlike European nobility who built castles mostly for prestige and not for extended living, the Congdons exercised practicality by building the structure as their home.

In his book *Minnesota Architect: The Life and Work of*

*Clarence H. Johnston* (Afton Historical Society Press, 1996), Paul Clifford Larson notes that Chester Congdon was part owner of the William A. French Company of St. Paul, an interior-design firm knowledgeable about the transition from European-based design to nascent American expression toward Modernism in the early 20th century. Congdon chose the top designers in the firm and commissioned Johnston as an architect whose residences displayed these same attributes.

Larson thinks Johnston welcomed his collaborative role with French, knowing his purpose was to design an architectural exoskeleton for the main event: the mansion's superlative interior of period-infused rooms, at a project cost of \$865,000. The mansion's main halls feature fumed-oak paneling (made by placing oak in a sealed room with ammonia fumes that age the surfaces without staining), accented by hand-carved pilasters crowned with high ceilings laced with geometric plaster-relief patterns. A grand staircase features elaborate intertwined wood strapwork executed in Elizabethan and Jacobean design. Lighting fixtures display shades



The grand staircase of the 39-room mansion features intertwined wood strapwork of Elizabethan and Jacobean design and sets the stage for the period-infused interiors.

COURTESY GLENSHEEN MANSION

Continued on page 53

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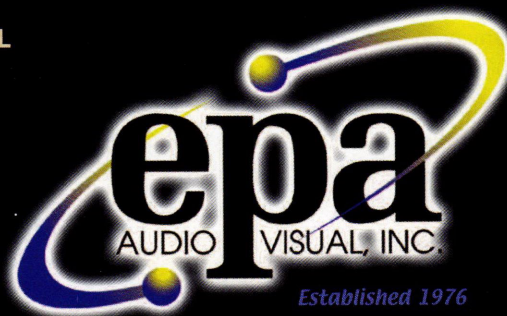


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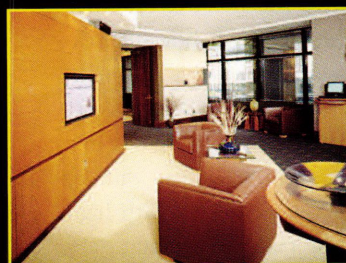


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# Get Smart

With the ascent of smart buildings and services have come new responsibilities for architects and building operators

BY TODD WILLMERT

Smart" is the adjective of the moment in architecture and planning. "Smart growth," for instance, is lingo for anti-sprawl or more traditional, dense development. The term "smart building," however, is more elusive, as "smart" is a catchall term for a range of control and communication technologies linking building systems.

Similarly, smart strategies vary greatly, from simply streamlining the efficiency of lighting and mechanical systems to sophisticated fire-suppression systems. For instance, the Pentagon opened on September 12, 2001, thanks to a network of digital sensors and controllers that let facility managers close dampers and turn off fans, confining the fire caused by the plane that tragically crashed into the building the day before. A cutting-edge smart building doesn't just manage energy anymore.

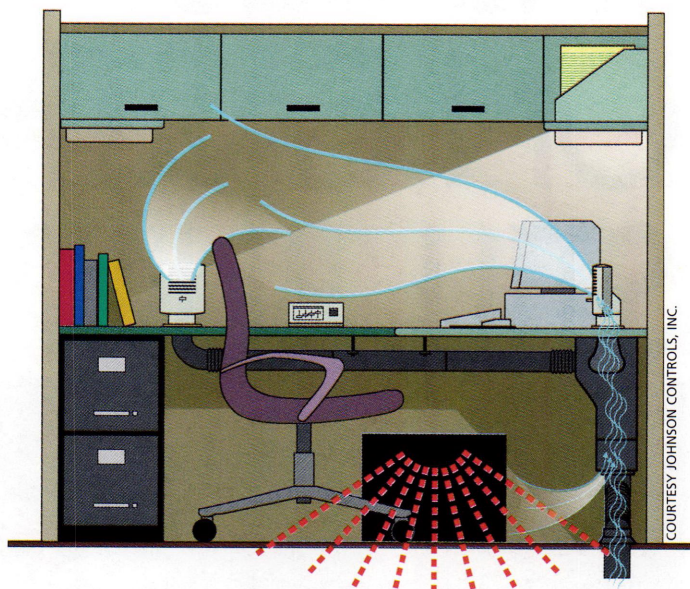
While the Pentagon has a pricey, proprietary smart automation system, most buildings remain considerably dumber. There's also a gap between capability and reality, with few extraordinary examples of smart buildings to point to, which makes it more difficult to define what a smart building is. "The capability is there to make truly smart buildings," says Patricia Hunt, lighting designer, Hammel, Green and Abrahamson, Inc., Minneapolis, "but I have yet to see any building like in *The Jetsons*."

Smart buildings definitely look forward, connoting an architecture that anticipates occupant needs—as in the famous television cartoon. Be-

yond this, what does the adjective "smart" mean in relation to architecture? Smart doesn't address the architectural structure proper, rather it broadly refers to a building's supporting services. What are the applications and ramifications of smart with regards to architecture and its practice?

Ironically, for such a forward-looking development, a historical perspective best explains the rise in smart-building trends. As the critic/historian Kenneth Frampton notes in *Studies in Tectonic Culture* (MIT Press, 1995) the costs of a building's foundation work and below-grade structure have remained relatively stable over the past few centuries—about an eighth of the budget. Meanwhile, "mechanical services have risen to consume some 35 percent since the late nineteenth century. At the same time, with the transition from loadbearing wall to skeleton-frame construction, the amount devoted to the basic structure has dropped from around 80 percent in former times to some 20 percent today."

Heating, ventilation and air conditioning, to say nothing of additional building services—such as fire and other life-safety systems, electrical and lighting systems, and telecommunications for voice, data and video transmission—are now the most costly part of a building. Formerly, a building was its envelope, its basic structure and cladding, fenestration and roof. Today, the cost of these elements is superseded by the service systems and their wires, cabling, pipes and ducts.



A key element of ADC's smart-building technology is the HVAC system by Johnson Controls (above). At each workstation, the occupant regulates the air, which is delivered through raised floors, to an individual comfort level.

Continued on page 56

# THE BEST BUILDINGS ON EARTH ARE STILL BUILT BY HAND



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# The Wide World of Design

BY BILL BEYER, FAIA

At social events, architects routinely get asked what kind of architecture they practice: Interior or exterior? Private or public? Residential or commercial? Some of us specialize, but a lifelong architectural education includes all of the above, and more. As Ralph Caplan reminds readers on every page of his seminal book, *By Design: Why There are No Locks on the Bathroom Doors in the Hotel Louis XIV, and Other Object Lessons* (St. Martin's Press, 1982), design is a uniquely human activity with the broadest reach.

Written in 1982, the book is a classic on the subject, perfectly fresh and timely today. Caplan's romp across the design spectrum includes a time when "things" mattered. He recalls the humble objects Tom Sawyer received from his friends for letting them paint Aunt Polly's fence, and he recounts George Orwell's reverie, in 1984, on the tactile pleasure of writing on beautiful paper with a real nib.

Caplan explains the differences between the design of Bob Hope's humor and Charlie Chaplin's, bemoaning the fact that the Bauhaus didn't take humor into account, while the Postmodernists overdid it. He reminds us that the design of our Republic by the original framers of the Constitution focused on process, not product. He even touches on the role of taste in design, telling of a group of New York ladies who, in the 1960s, organized the American Institute of Approval, Inc., which, for a fee, would advise manufacturers on whether or not their products were tasteful.

While the book focuses on industrial design, Caplan celebrates design in every form. "The tra-

jectory of design has been moving from the design of objects to the design of the situations in which the objects are made and used," he writes.

Gandhi, Caplan argues, was a master at designing situations that would get him arrested, a design approach adapted to American social protest sit-ins of the 1950s and 60s. He explains that colleges use situation design to differentiate themselves from their competitors: i.e., while the history textbook may be the same at Harvard and your local community college, "The four-year environment was the real text."

Architects' beloved charrette process is situation design. And architects are increasingly involved in the design of project-delivery systems, reorganizing design and construction teams and processes to save their clients time and money. This expanded approach occasionally frees architects to advise their clients not to build, sometimes the most appropriate design choice.

Most architects I know spend every waking moment surveying their surroundings and assessing what works and what doesn't, from hardware and light switches, interior spaces and exterior facades, to neighborhoods and whole cities. Architects' broad educational background and work experience imbues them with a sensitivity to architecture and design on every scale.

Thus, in order to "make things right" and "shape what people need," architects must continue to engage in the astonishing breadth of design, to ensure the design of a building's interior is inseparable from its exterior, and its exterior is responsive to its neighbors and its social context.

"Design is a process of making things right, for shaping what people need."

Ralph Caplan,  
*By Design*



PHILIP PROWSE

# Sacred Geometry

A REFORM JEWISH CONGREGATION FINDS ITS IDENTITY IN A SYNAGOGUE THAT BLENDS OLD WORLD TRADITIONS AND INNOVATIVE CONTEMPORARY DESIGN *By Camille LeFevre*



*Design team (left to right): Milo H. Thompson, FAIA; Gary F. Milne Rojek, AIA; Randy L. Moe, AIA.*

**Bet Shalom congregation started humbly in a room of the Jewish Community Center in Golden Valley** before moving to a former Lutheran Church in Hopkins for 17 years. So when the Reform Jewish congregation finally had the opportunity to design its own building, on a 1.8-acre wetland site in Minnetonka, its members desired an architectural identity both contemporary and in adherence with tradition.

Under guidance from Bentz/Thompson/Rietow, Inc., Minneapolis, which added Rabbi Lawrence Hoffman, a New York-based liturgical consultant, and Dr. Marilyn Chiat, a Minneapolis art historian specializing in Jewish art and architecture, to its consulting team, the congregation explored design options. After researching historical synagogue design and Jewish liturgical art, embarking on bus tours to regional churches and synagogues, and participating in a weekend retreat, the congregation's wishes were clear.



PHILIP PROWSE

The members wanted the new building to be centered on the sanctuary, that the sanctuary be flexible enough to accommodate small or large groups, and that the building as a whole convey a feeling of "heimisch," or warmth, intimacy and welcoming, explains Gary Milne Rojek, AIA, project architect. At the same time, the buildable area on the wetland-dominated site was limited.





The solution was a 46,000-square-foot circular building that sits tightly on the site and revolves around a hexagonal sanctuary, resulting in a modern structure that references the old synagogues of Eastern Europe while providing the congregation with free-flowing spaces that foster inclusiveness. The building's curvilinear exterior also allows for the main entrance and the entry to the education area to coexist with-

out having one as a side or back door (a condition the congregation wanted to avoid).

Inside the sanctuary, the design team devised an innovative technique for opening up the worship space almost three-fold for High Holy Days. With a press of a button, three moving 12-inch-thick walls—36 feet wide and 20 feet high—separate in the middle, with one leaf rising up into the drum of the dome and

*The hexagonal sanctuary (above) lies at the heart of the circular synagogue (opposite), creating an intersection of sacred geometry.*



*The triangular wall panels reference Jewish iconography, particularly the Star of David (above), while the circular shape of the building creates open, free-flowing spaces for congregation members to meet (opposite above).*

one leaf lowering into the basement. “The goal was to create an intimate feeling, yet have the ability to quickly house a large number of people without anyone feeling left out,” explains Tom Silver, congregation president and chair of the building committee.

The walls open to the adjacent social hall and increase the sanctuary seating capacity from 480 to 1,200 people. The enlarged space

also provides direct sightlines to the bimah, on which rests the custom-designed stainless-steel and gold-leaf ark, in a stylized representation of a menorah. The congregation’s previous “ner tamid,” or eternal flame, was redesigned and retrofit to support a true gas flame that hangs above the ark.

The entire sanctuary, in fact, is infused with iconography and spirit. Thirty-six windows

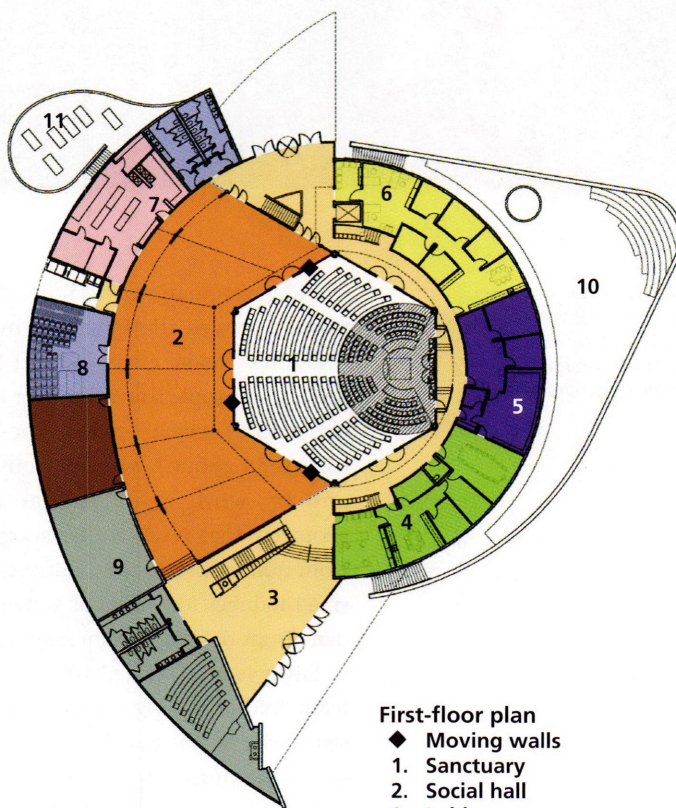


PHILIP PROWSE



ring the drum of the dome and represent double “chi” or a doubly blessed life. The warm tones of cedar wood on the walls and ceiling usher in the feeling of heimisch, while the design of the cedar ceiling recalls the “tent” of the tabernacle and the wood ceilings of Eastern European synagogues.

The concrete floor was stained and sealed to create a leathery look that references the floors



**First-floor plan**

- ◆ Moving walls
- 1. Sanctuary
- 2. Social hall
- 3. Lobby
- 4. Administrative offices
- 5. Rabbinic study
- 6. Education offices
- 7. Kitchen
- 8. Storage
- 9. Future expansion
- 10. Play yard below
- 11. Mechanical yard



PHILIP PROWSE

*In the synagogue's spacious, light-filled lobby (above), a mosaic over the fireplace depicts key liturgical events in the Jewish calendar.*

of older sanctuaries. The floor also ramps up slightly toward the bimah to increase sight-lines and “make everyone feel level,” Silver says, “and people think the floor is.” The hexagon within a circle replicates the Star of David used throughout Jewish religious architecture and art, while generating an intersecting geometry that results in a variety of spaces—from administrative and education offices to small lounges for informal gathering—that radiate from the central sanctuary.

Silver is also pleased with how the design team “hid or massaged the HVAC into the design.” The opening at the center of the sanctuary dome, for example, is an air-evacuation unit in the event of smoke or fire. Behind the imperceptibly curved cedar-slat walls at the back of the sanctuary is a fine stainless-steel mesh that facilitates air return. Similarly, all the sanctuary pillars house the duct-work system for the room.

At the main entry, the design embraces a specially conceived mosaic over the lobby fireplace depicting the key liturgical events of the Jewish calendar. The columns at the main entry recall the historical precedence of the use of the twin columns of “Joachim” and “Boaz” in Solomon’s temple in ancient Jerusalem.

The lower level of the building includes an auditorium/theater and classrooms for young children, along with a recessed play yard. The other two levels look out over the wetlands the congregation restored. “A large part of the design of the site focused on wetland restoration and preservation,” says Milne Rojek. “This focus on restoration, linked with the congregation’s sweat equity, has yielded spectacular results in a short period of time, in the return of native flora and fauna.”

The congregation has also seen a spectacular increase in its membership since the synagogue opened in 2003, from just under 500 families to 780 families. “We wanted a building capable of handling up to 1,000 families,” Silver says, “and the building still has space set aside for expansion.”

Silver credits the growth with “a building that gives this congregation an identity it never had; something unique in style but holding to old traditions and values, which is what Reform Judaism is about.” But he’s also impressed by how the design team “took an Old World concept and put it into modern-day terms, bringing forth new materials and innovative construction techniques in the process.”

**Bet Shalom Synagogue**  
**Minnetonka, Minnesota**  
**Bentz/Thompson/Rietow, Inc.**  
**Minneapolis, Minnesota**



JERRY MATHIASON

## Restoration in the Round

THE ROTUNDA OF MINNEAPOLIS'S CITY HALL RECEIVES A FACELIFT THAT LEAVES THE HISTORIC INTERIOR GLEAMING *By Barbara Knox*



JERRY MATHIASON



Design team (left to right): Bob Mack, FAIA; Royce Wiens.

With marble walls, the 94-foot-high ceiling (first page) and 37 stained-glass windows that needed restoration and cleaning (top), the rotunda was a project as colossal as the towering Father of Waters statue (first page) housed there.

**The Minneapolis Municipal Building**, an imposing structure that fills a 300-square-foot block in the heart of downtown and is commonly referred to as City Hall or the old courthouse, is widely regarded as one of the top three examples of Richardsonian Romanesque architecture in the Twin Cities today. Built between 1891 and 1906, the 14-story, red-granite building has been familiar to many generations of Twin Citians who have crossed its threshold to register to vote, sign up for the draft or get a marriage license.

But 100 years after its construction, the landmark was looking down-at-the-heels. In the rotunda, the magnificent stained-glass skylight and windows were buckling, the gorgeous marble walls were filthy and out-dated lighting cast a dreary glow over the colossal Father of Waters statue. It was clearly time for a facelift.

After spending almost six years arranging for funding from the City of Minneapolis and Hennepin County (the building's joint owners), the Municipal Building Commission, which acts as the landmark's caretaker, retained MacDonald & Mack Architects, Ltd., Minneapolis, to begin restoration of the rotunda in 2002. According to Bob Mack, FAIA, principal, the first orders of business were to restore the stained glass and develop cleaning methods for the marble.

"Every single stained-glass window had to come out and be transported down to a stained-glass studio in Iowa, where it was disassembled, restored with new lead comes [rods], then re-assembled and returned to Minneapolis for installation," Mack explains. The painstaking restoration took about one year, a time during which the Municipal Building's rotunda was filled with scaffolding.

Once the windows had been removed from the rotunda, it was time to begin cleaning the marble, which was not only soiled from years of cigar smoke but had been coated with a yellowish, waxy sealant at some point. "We developed a method for cleaning that would require minimal amounts of water, remove all the layers of dirt and that coating, and not damage the marble," Mack says. The firm spent six months testing various products and ultimately worked with Macpherson-Towne Company to develop a product specifically for the Municipal Building job. Actual cleaning of the marble took about three months.

Lighting improvements throughout the rotunda allow visitors to now appreciate the restoration efforts. Dated fluorescent fixtures on the balconies surrounding the rotunda were replaced with reproductions more sympathetic to the character of the building. Inadequate back-

lighting in the south windows (which are next to outside buildings that block all natural light) was updated with a sensor system that more closely duplicates real daylight conditions. High in the rotunda, new lighting illuminates the decorative medallions on the ceiling and boosts the general light level throughout.

John Helgeson, project manager, Municipal Building Commission, notes that while the rotunda is the most notable of the restoration efforts to date, an entire building-renovation program is ongoing. "In addition to the work on the rotunda, MacDonald & Mack has done work in the stairwells, removing masonry from bricked-up windows and adding storm windows to protect the glass." With life-safety protections as a priority, the architect-led, 23-stage program of updates will continue to be implemented through 2012.

As an interesting sidelight, Helgeson notes that since MacDonald & Mack removed the bricks from the stairwell windows, sunlight now streams through the rotunda at various times of the day, energizing the restored space. "That exact phenomenon occurs in another Richardsonian Romanesque building—the Allegheny County Courthouse & Jail—in Pittsburgh," he says. "We were thrilled to get that same result here."

According to Jose Cervantes, director, Municipal Building Commission, the completed rotunda restoration was well worth the time and money spent. "In a project that has 94-foot-high ceilings, 37 stained-glass windows, a huge skylight, cartouches and vast expanses of ornate marble, it's not about price per square foot," Cervantes argues. "Considering that the building is on the National Register of Historic Places—and we're looking to upgrade its designation—this was really money well spent."



JERRY MATHIASON

Mack agrees that even in times of tight budgets, the public was well served by the Municipal Building's rotunda restoration. "Even aside from the fact that the stained glass was on the verge of really serious problems and had to be repaired, I think creating something of beauty for all the taxpayers to enjoy is very appropriate, even when times are tough."

**Municipal Building Rotunda Restoration**  
Minneapolis, Minnesota  
MacDonald & Mack Architects, Ltd.  
Minneapolis, Minnesota

*When bricks were removed from the stairwell windows (above) daylight streamed back into spaces dark for decades.*

# Kitchen Conversions

THREE KITCHEN RENOVATIONS REINFORCE THE MEANING AND IMPORTANCE OF THIS DOMESTIC HAVEN *By Barbara Knox*



*Design team (left to right): Rosemary McMonigal, AIA; Ashley Mitlyng, Assoc. AIA; Jennifer Hilla Schlag; Curtis Martinson; Melissa Steinberg.*

**P**hil Gerlach had fond memories of the St. Paul four-square house in which he grew up. But when he purchased the house from his father in 1991, the 1904 home needed loving care. Undaunted, Gerlach and his wife, Cathy Perrone, began restoring the Merriam Park residence from top to bottom. But when it came time for the kitchen renovation, the weekend warriors set down their toolboxes and called Rosemary McMonigal, AIA, principal, McMonigal Architects, LLC, Minneapolis.

“We recognized that we just didn’t have the skills to do a project of that size by ourselves,” Perrone says, by which she means transforming a small, cramped and out-of-date kitchen into a functional space with a style in keeping

with the historic house. “Cathy and Phil really wanted a kitchen that would connect visually to the outside and to the rest of the first-floor living spaces,” McMonigal says. “They have been such excellent stewards for the house that it was a pleasure to help them with this aspect of the renovation.”

After realizing she couldn’t fit all of the couple’s goals within the existing footprint of the house, McMonigal planned a 185-square-foot, single-story addition that allowed her to reorganize the main floor and provide more kitchen space. The resulting plan accommodates a hall to the front foyer, a new butler’s pantry, a full bath, a small kitchen pantry, a new back entry and a new eat-in kitchen.

After Gerlach discovered remnants of the home’s original woodwork under the front porch, McMonigal replicated the red-oak millwork for the new kitchen. Cherry-wood cabinetry with inset doors runs up to the ceiling—as was typical of early 20th-century houses—and new white-oak floors match those in the rest of the house. The oil-rubbed bronze hardware is similar to that found on the one remaining interior door in the house. The homeowners said “No, thanks” to the idea of modern recessed lighting and instead chose hanging fixtures for a more authentic look.

Unlike many homeowners today who are eager for an open-plan kitchen with a center island and lots of gadgetry, Gerlach and Perrone asked for “a nook for the cat’s dishes” and “lots of light,” along with more counter-top space and storage. So instead of an island, the couple uses a 100-year-old oak pedestal table that once belonged to Gerlach’s aunt. “That’s our gathering place,” Perrone says.



KAREN MELVIN





KAREN MELVIN

"We can cook and have our friends here at the table." Cooking is accomplished with greater ease these days, as McMonigal's plan added 19 feet of gray-green granite counters. A new under-counter freezer unit mounted at counter height recalls the old kitchen's rare horizontal refrigerator.

"The investment we made in our architect was probably the best money we ever spent," says Gerlach, who along with his wife contin-

ues to work on the rest of the house in his spare time. "Rosemary was so knowledgeable about all the details, always on target with estimates and a great advocate for us when it came to issues with the builder."

**Gerlach/Perrone Kitchen Remodel**  
St. Paul, Minnesota  
**McMonigal Architects, LLC**  
Minneapolis, Minnesota

*Instead of an island, the couple chose a 100-year-old pedestal table as the focal point of the kitchen (opposite and above), and asked for special features like a nook for the cat's dishes (opposite left).*



Randall M. Buffie, AIA.

*The gently curved ceiling calms the space, while such high-end materials as black granite, glue-chip glass and English-sycamore cabinetry enrich the airy light-filled kitchen (below and opposite).*

**D**esigning a kitchen remodel in a 15-year-old house in Deephaven may seem an unlikely occasion for an epiphany about the relationship between math and emotion, but that's what happened to Randall Buffie, AIA, Randall M. Buffie Architect, Ltd., Minneapolis. "When this kitchen was completed," Buffie says, "there was a soothing, calming, I-don't-want-to-leave-this-room kind of feeling. Many of the workers also commented on how peaceful the room was. I became intrigued by how something as quantifiable and left-brained as math can affect the right-brained emotional content of a room."

From the outset, the program was straightforward: The client wanted to update the all-white kitchen, adding light, style and a sense of calm. Buffie's plan called for gutting the existing 292-square-foot space and adding a 98-square-foot, west-facing solarium with views of Lake Minnetonka; a new, east-facing window wall in the kitchen overlooks the pool and floods the space with light.

Next, Buffie says, he "wanted to animate the light in a way that a flat ceiling cannot." So he suspended a gently curved wood ceiling

finished in a harlequin pattern of glass below the original, 13-foot-high flat ceiling. Because he also believes that adding a curve to a room in the right place dissipates energy and introduces a sense of calm, he added a similarly curved, dropped panel of woven-stainless-steel fabric over the center island.

On either side of the island, with its surface of acid-washed, double glue-chip glass, the architect divided the space into warm- and cold-cooking areas. Polished black-granite countertops play off lacewood and English-sycamore cabinetry, while a piece of carved art glass provides a panel of support for one segment of the upper cabinetry. Carved-glass inserts in the cabinet doors above the range hood add to the architectural medley.

Buffie contrasted these tactile, high-end materials with stainless steel throughout—on the appliances, the island's supports, the suspended element over the island—to "give the impression of one material sliding past another." The wall ovens, for instance, are framed in a narrow band of stainless steel and pushed out two inches from the surrounding wood cabinets to delineate the contrast.

Carol Chaffee, Carol Chaffee Associates, Minneapolis, assisted with the lighting plan, which features recessed ceiling fixtures, an artful display of fixtures hanging from twisted stainless-steel stems over the island and decorative blue-glass pendants. "The client also found a hand-painted glass pendant for the dining table that completes the package beautifully," Buffie adds.

While the materials, fixtures and furnishings are first rate, Buffie says, the magic of the kitchen lies in its sense of proportion. "The width of the cabinet doors are in proportion to the radii of the ceiling, the diamonds on the ceiling are pierced exactly in the middle by the recessed fixtures," he says. "That is what ultimately contributes to the strong emotional content of this room."



KAREN MELVIN

**Kitchen Renovation and Addition**  
Deephaven, Minnesota  
Randall M. Buffie Architect, Ltd.  
Minneapolis, Minnesota





Design team (left to right): John Clarey; Tim Quigley, AIA.

*The wood-burning fireplace with rough-hewn mantel and concrete hearth (opposite) gives the kitchen an earthy feel that contrasts with the kitchen's soaring ceiling and stained glass (below).*

**W**hen Bob Barrie and Kris Wong decided to add a new kitchen to their home, it was only natural that Tim Quigley,

AIA, Quigley Architects, Minneapolis, sign on for the job. Given his long-standing working relationship with the builder who constructed the home, Bruce Bren, Quigley was ready to hit the ground running. Quigley describes the house as "something of a Tudor style with a strong Arts and Crafts tendency." Situated on Minnehaha Creek in Edina, the house commands beautiful views of both the creek and nearby Mill Pond.

Wanting to take maximum advantage of the views, the homeowners were looking to expand the house by adding a series of casual living spaces that opened up to one another. Central to the program were a new kitchen, a computer area, a guest suite and a porch that would overlook the new pool and Mill Pond. Because one of the children is disabled, the design had to be wheelchair accessible.

Quigley's design solution called for a one-and-a-half-story, 770-square-foot addition to house the new spaces. Because Quigley annexed space off the side of the main house, he was able to vault the beamed kitchen ceiling for a dra-

matic effect. And since Wong was a strong aficionado of Southwestern-style design, Quigley sought to integrate that look and feel as well. In the end, his palette consisted of a mix of stained glass, art glass, stained wood and concrete, all set against a color scheme of muted green, yellow and off-white.

"Both the coloration and the stained-wood cabinets pick up on the Arts and Crafts motif," Quigley explains, "but at the same time they support the client's interest in the style associated with Taos, New Mexico."

One of the strongest Southwestern touches in the new kitchen is a massive plaster fireplace set on top of a concrete hearth large enough to hold a supply of firewood. Sporting a rough-hewn mantel, the fireplace acts as both the visual and emotional focal point in the room. Another key element is the stunning stained-glass window, which the client found at an architectural-antiques store, and which helped define the height of the vaulted ceiling.

Quigley repeated the concrete of the hearth on the island and on the countertops that wrap around the main cooking/preparation area. The sealed, caramel-colored concrete provides a warm complement to the dark-stained cabinetry and oak floors. A full-height pantry, a computer station, and a large kitchen table and loveseat also combine to create the casual kitchen the client wanted. The new porch, which opens directly off the kitchen, has become an almost year-round living space, and the client keeps the door open to the kitchen throughout the warmer months. Next to the fireplace, French doors connect the kitchen to the new guest suite.

"This house is set on such a great lot that it was a pleasure to design an addition that would open itself up to those views," Quigley says. But he also credits "very involved homeowners, a strong builder and a terrific cabinetmaker" for helping to pull together disparate elements into one fully integrated addition designed for true family living.



ANDREA RUGG

**Barrie/Wong Kitchen Addition**  
Edina, Minnesota  
Quigley Architects  
Minneapolis, Minnesota

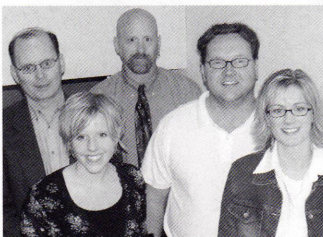




## Project

# Serious Fun

A BURGEONING CENTER FOR CHILDCARE PROFESSIONALS FINDS ROOM TO GROW IN A FORMER WAREHOUSE *By Dorothy Rand*



*Design team (left to right): Ben Metzdorf; Megan Gorden; Joel Springer; Lee Seppings, AIA; Becky Sandbulte.*

**When Resources for Child Caring**, a 30-year-old nonprofit, outgrew its basement location in St. Paul, the organization began looking for a new facility that could accommodate its expanding services. Not only did RCC need space for classes that train parents and childcare providers in the education of young children, but it also needed meeting rooms to support its various services, which include provider referrals, childcare-funding assistance and grant-money distribution. RCC also hoped to enlarge its library and bookstore, stay in St.

Paul or nearby, have ample and free parking, and provide an open and welcoming environment for employees and visitors alike.

RCC also wanted to consolidate Red Leaf Press, Red Leaf National Institute and RCC Learning Center—separate groups beneath the RCC umbrella—under one roof. And because Red Leaf is the publishing arm of RCC, a building with offices and warehouse space was necessary for shipping operations. Fortunately, a former medical manufacturing facility in St. Paul provided the perfect location; Collabora-



SAARI & FORRAI

tive Design Group, Minneapolis, was tapped to renovate the building.

"RCC is creative in developing educational tools, but its former offices didn't reflect this," says Lee Seppings, AIA, principal, Collaborative Design Group. "The old space didn't encourage creativity. It wasn't full of light or very open." The new space, adds Carol Rohde, executive director, RCC, needed to be "about children, but not for children." For instance, she explains, "Childcare providers often work all day in smaller environments that are appropriate for children. When they come here for evening classes, we wanted them to come to a welcoming open space."

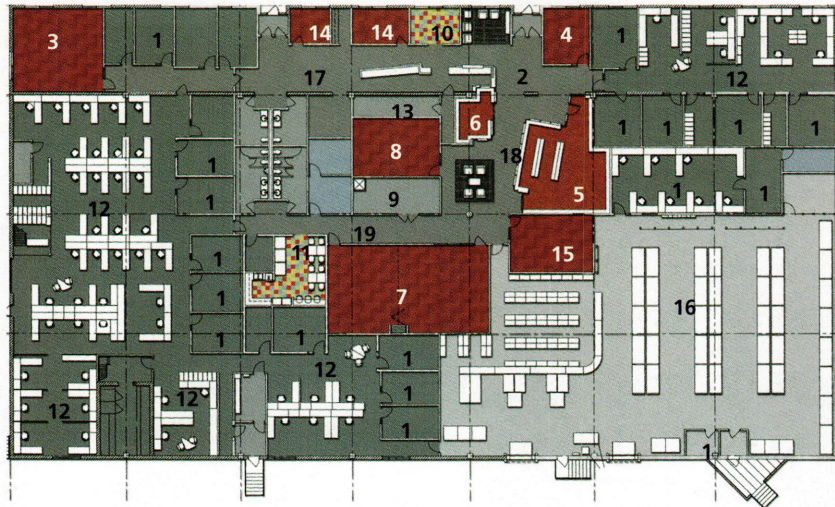
The new interiors, then, couldn't feel overly serious or corporate, and had to embrace the creativity of the adults that work at and visit RCC. To address this need, the design team created several schemes and gave each one a per-



*To create interiors that reflect the creativity of adults who work with children, the design team generated a scheme of bright colors and minimalist lines (above), and incorporated such materials as wood, metal and frosted-acrylic screens (left).*

**Plan**

- 1. Office
- 2. Lobby/reception
- 3. Conference A
- 4. Conference B
- 5. Library
- 6. Book nook
- 7. Classroom B
- 8. Classroom C
- 9. Mechanical
- 10. Children's room
- 11. Break room
- 12. Open office
- 13. Telecom
- 14. Meeting room
- 15. Classroom
- 16. Warehouse
- 17. "Street" A
- 18. "Street" B
- 19. "Street" C



*The former warehouse space now features an interplay of color, material and daylight (opposite) that reflects the client's constituents and their needs.*

sonality and a name. The RCC staff chose a scheme featuring bright colors, sleek minimalist shapes and common materials called "fun pops," the name of which also evokes creativity, ideas and play. It's these themes that RCC embraces and the finished project reflects.

Just inside the building's front entrance, for instance, in an area that houses reception, conference rooms, restrooms and a children's play area, "fun pops" finds expression through a playful yet honest interaction of color, materiality and natural daylight. Here, also, the design team retained the building's existing low ceilings to convey a human scale. Office wings open off the hallway through secured doors, which ensure the building is useable by the public in the evening for classes while protecting private offices.

Beyond the reception area is a library, small bookstore and classrooms, all of which retain the tall ceilings of the former warehouse. Daylight falls through clerestory windows into all of these spaces, which are separated by unique frosted-acrylic screens banded with metal and wood framing. Together, the wood, metal and acrylic create a cheerful, open and contemporary feel.

A large yellow wall, visible from the building entrance, is shared by a classroom, staff break room, mechanical and storage rooms, and a private room for nursing mothers. An-

other secured door opens to warehouse space, where cubicle offices are housed beneath a white exposed ceiling and former dock doors were transformed into windows to draw in natural light.

Large yellow, blue, green and red walls of varying heights surround the cubicles, enlivening the space while creating private offices within what is essentially an immense box. "We wanted a primary color scheme without being too circus-like," Seppings explains. A lowered ceiling suspended from the original tall ceiling provides soundproofing and an appropriate sense of scale within the private offices.

At the rear of the building is a warehouse area that's largely unchanged from the previous tenant. This space houses Red Leaf's books, materials and shipping operations. A nearby room houses the customer-service representatives who receive and process orders.

Today, RCC has the space it so desperately needed to grow, and a playful yet simple contemporary design scheme that reflects its constituents and their needs. Collaborative Design Group, Rhode says, "had such a good sense of creativity, which we needed."

**Resources for Child Caring**  
**St. Paul, Minnesota**  
**Collaborative Design Group**  
**Minneapolis, Minnesota**





# Lost and Found

AN AGING INNER-CITY CORPORATE CAMPUS IS RENOVATED TO MEET THE NEEDS OF A 21ST-CENTURY WORKFORCE *By Linda Shapiro*



Design team (left to right): Dave Norback, AIA; Tom Sopoci, AIA; Mary Deeg; Matt Lilly; Victoria Gerads.

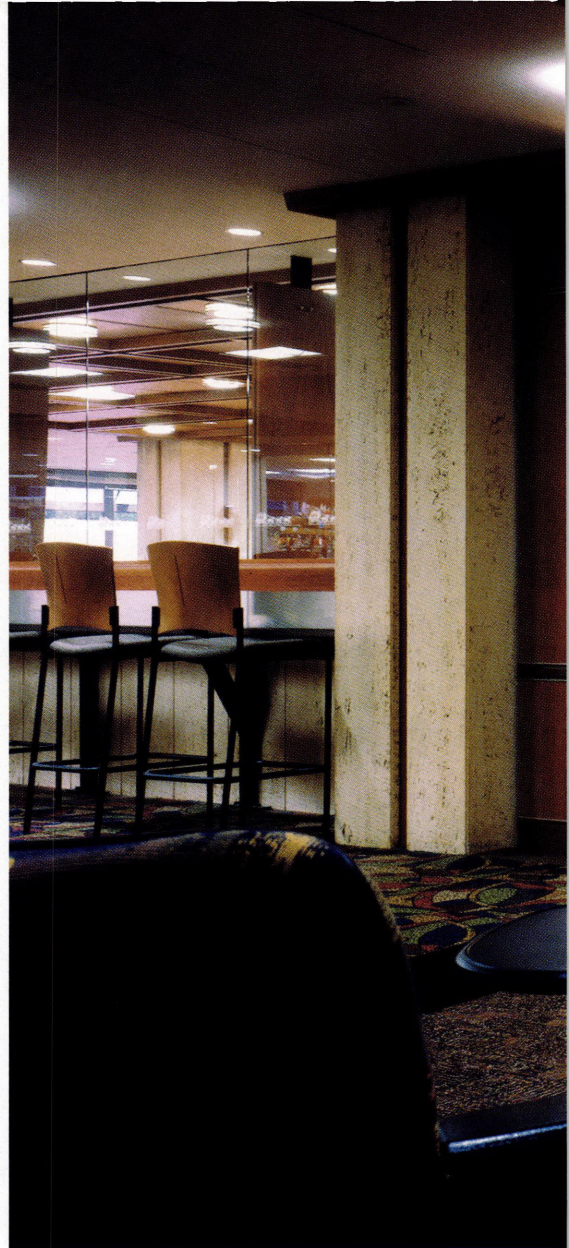
Updating the interior spaces with contemporary furnishings and creating such employee amenities as cafés and casual work areas (opposite) were among the objectives of the renovation.

**During its tenure in the Phillips Neighborhood of South Minneapolis,** Honeywell Corporation built a 27-acre campus, while helping to revive the inner-city area by renovating and constructing housing. When Honeywell moved its headquarters to New Jersey in the 1990s, Wells Fargo Home Mortgage purchased and committed to the urban location by consolidating such functions as call centers and cost services there.

WFHM retained RSP Architects, Inc., Minneapolis, to unify the complex's existing North and South buildings, along with a new West Building (which is currently under construction and, at 200,000 square feet, will double the square footage of the old building) into a cohesive corporate campus. RSP was also charged with renovating the existing buildings' interiors to meet the needs of a 21st-century workforce, and with creating a work environment with plenty of amenities, as many employees were being relocated from other facilities.

In short, says Cheryl Howard, senior vice president, corporate real estate and facilities management, WFHM, "We wanted to open a very chopped up, nonfunctional interior space so we could put more people in it, enable them to work more efficiently and make them more comfortable."

The existing North and South buildings' interiors presented a number of challenges including cramped, enclosed spaces with inadequate daylight; obsolete mechanical and electrical systems with code and accessibility violations; varying and low floor-to-deck heights; and poor traffic circulation and wayfinding. In addition, the 650,000-square-foot, nine-story North Building, which anchors the campus, was composed of six different structures cobbled together from 1912 to the present.



Superfluous elevators and stairways were scattered throughout, and inefficient circulation was compounded by a lack of internal orientation. "The buildings were a labyrinth of narrow corridors, dark cramped spaces and private offices," says Dave Norback, AIA, principal-in-charge, RSP. The design team's solution to the cramped, dark interiors of the North and South buildings was to create an adaptable open-office floor plate, and to add or enlarge windows to allow natural daylight into every workspace.

In the North Building, which is stacked with floor plates of various sizes, it was also important to break up the larger areas (floors five and below are 80,000 square feet each) so employees could experience a more open, flexible, daylight workspace with options for privacy. Also in the North Building, the design team collaborated



GEORGE HEINRICH

with engineers to integrate a lighting system, which features compact, recessed, glass-ringed downlights, with a challenging mechanical layout (HVAC ductwork, sprinklers, and electrical, voice/data and lighting systems had to be housed above the ceiling because of 11-foot floor-to-ceiling heights).

To facilitate wayfinding in the North Building, the design team removed, replaced and grouped elevators, placing them in core areas along with staircases and restrooms. Around these core areas are such key facilities as conference rooms, break rooms, computer-service rooms, and electrical and mechanical rooms. Color-coded oval carpets and curved ceiling soffits (different colors for each level) indicate entry points into these core areas and the adjacent shared facilities. "The ovals give each floor an address to let you know

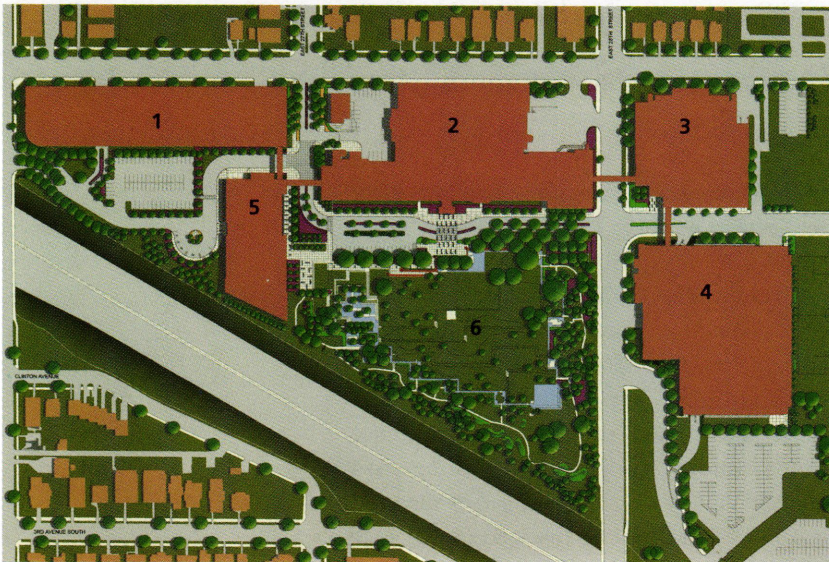
you are entering a recognizable space," says Mary Deeg, project manager, RSP.

The ovals open into curved corridors with bold columns and maple wall panels dyed in warm colors that frame views as people move from one space to another, creating a sense of flow and intimacy within a large space. The carpet patterns guide people toward conference rooms, huddle rooms, break rooms and lounges. Vinyl wall coverings, carpet tiles and oval inserts that can be replaced ensure easy maintenance.

The North and South buildings (and the future West Building) have windows overlooking green space (which includes a water garden) and the small-town ambiance of the Phillips Neighborhood. In the North Building, wrap-around windows provide panoramic views of the Min-



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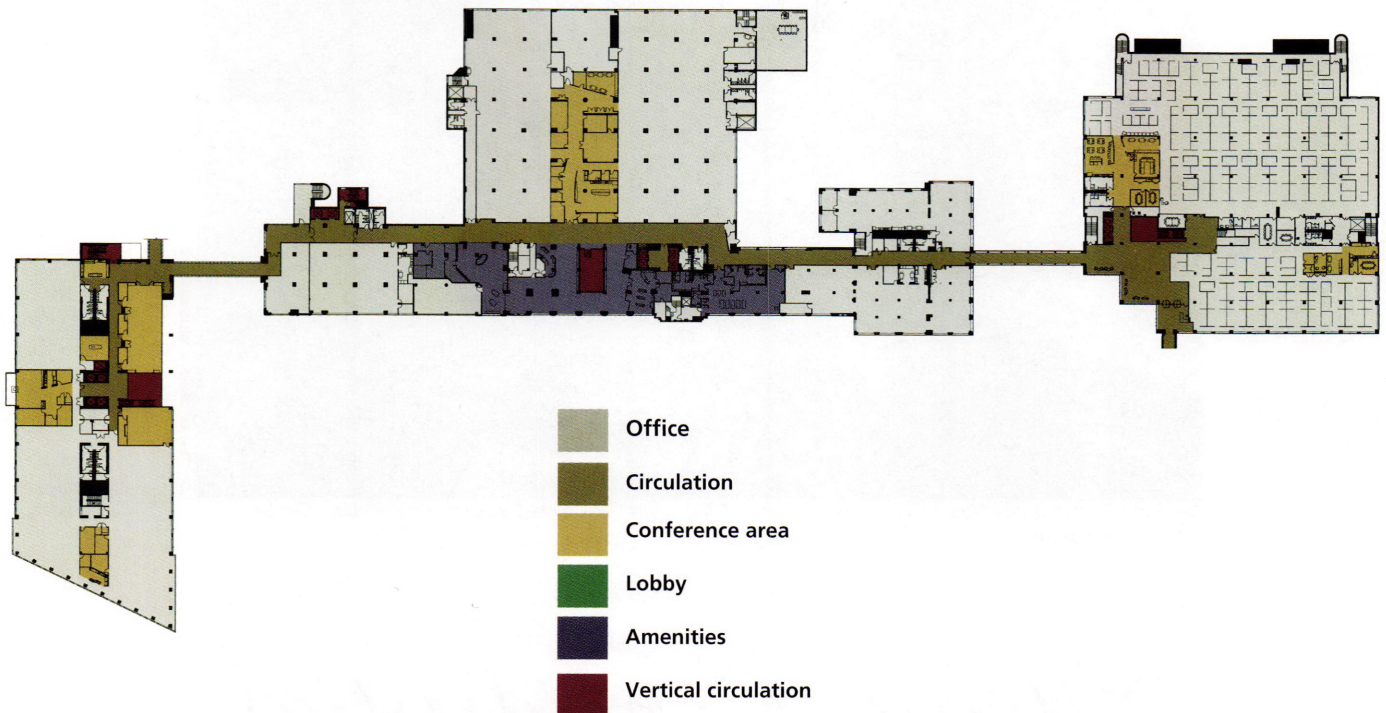
**Site plan**

- 1. Existing parking garage
- 2. Existing North Building
- 3. Existing South Building
- 4. Existing parking garage
- 5. New West Building
- 6. Water garden

neapolis and St. Paul skylines for employees located on the 9th floor. Sound-masking systems in both buildings were installed in ceilings at regular intervals throughout the open-office areas. In addition, the South Building was re-clad and windows were added to introduce more light into the interiors.

As the focal point of the complex, the North Building now sports a new main entrance featuring a two-story glass atrium lobby. Here the design team introduced black-and-white stone-and-tile finishes, and they removed, refurbished and reinstalled an existing mahogany-wood ceiling. They also enclosed the staircase of original travertine stone, which leads to the second floor, with glass for sound control, and added wing-shaped panels of mahogany to give the area warmth.

On the second floor are new employee amenities: Jack's Bistro and Eatery, which references sleek Modernism with asymmetrical wall tiles in primary colors and geometric shapes



reminiscent of a Mondrian painting; a coffee bar whose counter includes salvaged wood paneling from the Honeywell boardroom; and a convenience store and fitness center.

When the new West Building is completed in 2005, the three structures will visually connect, through architectural detailing and exterior materials, across the large expanse of the water garden. In addition, all three buildings will eventually be linked by a common skyway system when the campus is completed in 2005. Not only has RSP successfully knitted together a large and sprawling corporate complex, and imbued it with a human scale, Howard says, "We have achieved the goals of increased capacity, a more pleasant working environment and happy team members."

Wells Fargo Home Mortgage  
 Minneapolis, Minnesota  
 RSP Architects, Inc.  
 Minneapolis, Minnesota



*To facilitate wayfinding in the formerly dark, cramped interiors, the design team used ovals to designate core areas and ancillary spaces (left), a design initiative also reflected in such amenities as the employee café (opposite above).*

GEORGE HEINRICH



COURTESY OF GENERAL MILLS ARCHIVES

The Betty Crocker Gold Medal Experimental Kitchen of 1924 (above) was tucked away in the Washburn Crosby A Mill in Minneapolis.

## Kitchen Confidential

Once a tourist attraction, then closed to the public, the new Betty Crocker Kitchens allow culinary experts to test top-secret recipes in contemporary style while General Mills employees and guests watch from a distance

By Nancy A. Miller

In 1921, the advertising department of the Washburn Crosby Company, one of Minneapolis's largest flour-milling operations, created Betty Crocker. She was just a name and a spidery signature, not yet a face, dreamed up to humanize the company's consumer communications, primarily in the area of offering advice to homemakers faced with the challenges of cooking and baking in the modern kitchen. As the roles of women and the American kitchen expanded throughout the 20th century so, too, did Betty Crocker and her kitchens.

Given a face in 1936, Betty Crocker evolved from a rather stern, maternal homemaker in a stiff-colored blouse and suit, to a friendly, cardigan-wearing woman who would be equally comfortable at

the office, on the sidelines of the soccer field and in the kitchen. Similarly, just as the residential kitchen emerged from a hot cramped area at the back of the house (an area of often thankless, continuous activity under the sole purview of the housewife) to a focal point of family and social life, the Betty Crocker Kitchens evolved from backstage, utilitarian workplace in the corporation to prominent, theatrical showplace.

Behind the enormously popular marketing icon, whose name has branded everything from cake mixes to small home appliances, are the culinary experts who develop and test recipes in relative anonymity. In the 1920s, home economists in long, white lab coats performed the work of Betty Crocker in the Gold Medal Experimental Kitchen—an



When General Mills moved to its new campus in Golden Valley, so did the new modern Betty Crocker Kitchens, as shown in this 1959 photo (above).

austere space tucked away in the Washburn Crosby A Mill in Minneapolis.

Almost 20 years after the Washburn Crosby Company and its popular marketing icon were consolidated into General Mills in 1928, the organization moved from the banks of the Mississippi River to new headquarters in downtown Minneapolis in 1946. The renamed Betty Crocker Kitchens moved into an expanded space with a more public face. At a time when technological innovations were giving way to aesthetic interests in residential kitchens, the Betty Crocker Kitchens featured designs as diverse as Modern and Colonial, from Tomorrow's Kitchen to the Early American Dining Room. One room—the Terrace Kitchen—was open for public tours. In 1958, General Mills transferred those kitchens to its new suburban headquarters in Golden Valley, designed by Skidmore, Owings & Merrill, New York.

In 1966, on the ground floor of an addition to those offices, General Mills opened new Betty Crocker Kitchens under the banner, "Kitchens of the World." The famous industrial-design firm, Walter Dorwin Teague Associates, New York, designed the seven kitchens in stereotypical representations of the architecture and cultures of New

England, Scandinavia, New Orleans, Latin America, California, the Mediterranean and Japan. The geographically themed kitchens gave "the visitor a feeling of being immediately whisked into one of the exciting places of the world to which he has always wanted to travel," according to a story in the General Mills employee publication, *Modern Millwheel*. A tour of the kitchens at that time was one part Betty Crocker, one part Disneyland.

Those kitchens were rethemed in 1977 as the Arizona, California, Cape Cod, Chinatown, Hawaii, Pennsylvania Dutch and Colonial Williamsburg kitchens, which many Minnesotans fondly recall visiting. The kitchens were located in an out-of-the-way corner of the General Mills headquarters, to best accommodate tourists. Contact between the kitchens and the rest of General Mills's operations was limited by location. The two roles of the kitchens, as tourist site and product-testing facilities, often were at odds.

The kitchens closed to tourists in 1985 and afterward received only minor updates. Without visitors and out of sight, the dated Betty Crocker Kitchens slipped into quiet obscurity, even as they continued to support work that was crucial to the corporation's success. Faced with the challenges posed by

those facilities the staff did what home economists and home cooks have always done: They adapted and made the best of what they had.

General Mills announced in 2001 that it intended to completely redesign the kitchens for the first time in 35 years. The new facilities would be located in an 80,000-square-foot office addition designed by Hammel, Green and Abrahamson, Inc., Minneapolis, and unite the test-kitchen staffs of General Mills and its recently acquired Pillsbury division in a much-needed, updated space. After nearly 40 years in windowless facilities, today the Betty Crocker Kitchens are visually connected with second-floor offices, a new employee cafeteria and the lush landscape that surrounds General Mills's suburban headquarters, through a dramatic, light-filled, two-story glazed atrium.

Rich Bonnin, Assoc. AIA, project designer, HGA, and Judy Grundstrom, AIA, project architect, HGA (now a principal at Inland Office for Tomorrow's Architecture, Minneapolis), led the kitchen-design team. They collaborated with the Betty Crocker and Pillsbury staffs to find the appropriate expression for the kitchens in the 21st century.

"There was definitely a desire from the staff to be more prominent, more seen" in the new building, Grundstrom says. At the same time, the staff needed privacy to conduct its proprietary work of developing and testing recipes and new products. The idea of placing the facilities in a planned atrium at the heart of the office addition challenged the competing interests of the kitchens. As the design team explored the possibilities of creating kitchens that would be physically closed, but visually open to employees, the concept of using the atrium—combining publicity and privacy in the new kitchens—emerged as ideal.

Today, the atrium houses six kitchens used for such high-visibility activities as testing recipes sub-

mitted for the Pillsbury Bake-Off. To the west, 11 core kitchens support product testing closed to the public. Second-floor staff offices, located above the core kitchens, are connected to the atrium kitchens through a wall of windows. To the south, above a conference room where the original portraits of the eight versions of Betty Crocker hang in a gallery, is a glass-enclosed observation balcony that has become the focal point of the kitchens.

Like their predecessors, the new Betty Crocker Kitchens were designed to recreate the home cooking and baking experience with appliances, wood cabinets and granite countertops selected in the spirit of contemporary kitchen design. However, as Bonnin notes, the new Betty Crocker Kitchens are more durable than the typical home kitchen, to support continuous use—40 hours per week or more—and will be adapted to respond to future developments in technology and kitchen design.

Although closed to the public, the new Betty Crocker Kitchens have a more significant place in the life of the General Mills headquarters than at any time in its history. Drawn to the second-floor windows of the atrium—like party guests who inevitably drift toward the activity of the residential kitchen—General Mills employees and visitors pass by, stop, chat and observe with interest the activities in the test kitchens below. Reflecting the popularity of the shared cooking experience—evident today in homes, on television cooking shows and in magazines—the new Betty Crocker Kitchens are enjoyed as much for their spectacle as for their products.

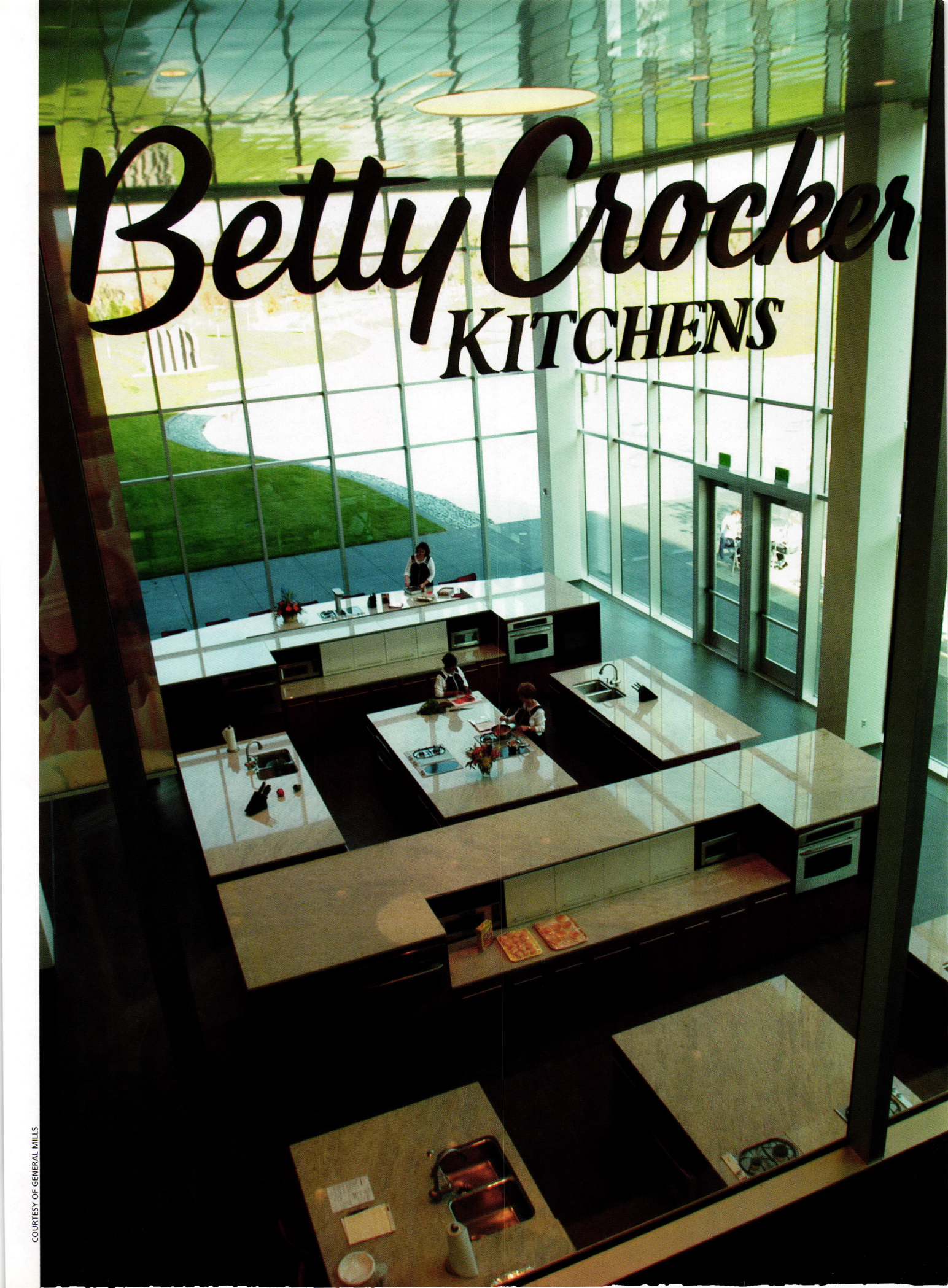
*The author wishes to thank Katie Dishman, corporate archivist, General Mills, for her generous contributions to this article.*

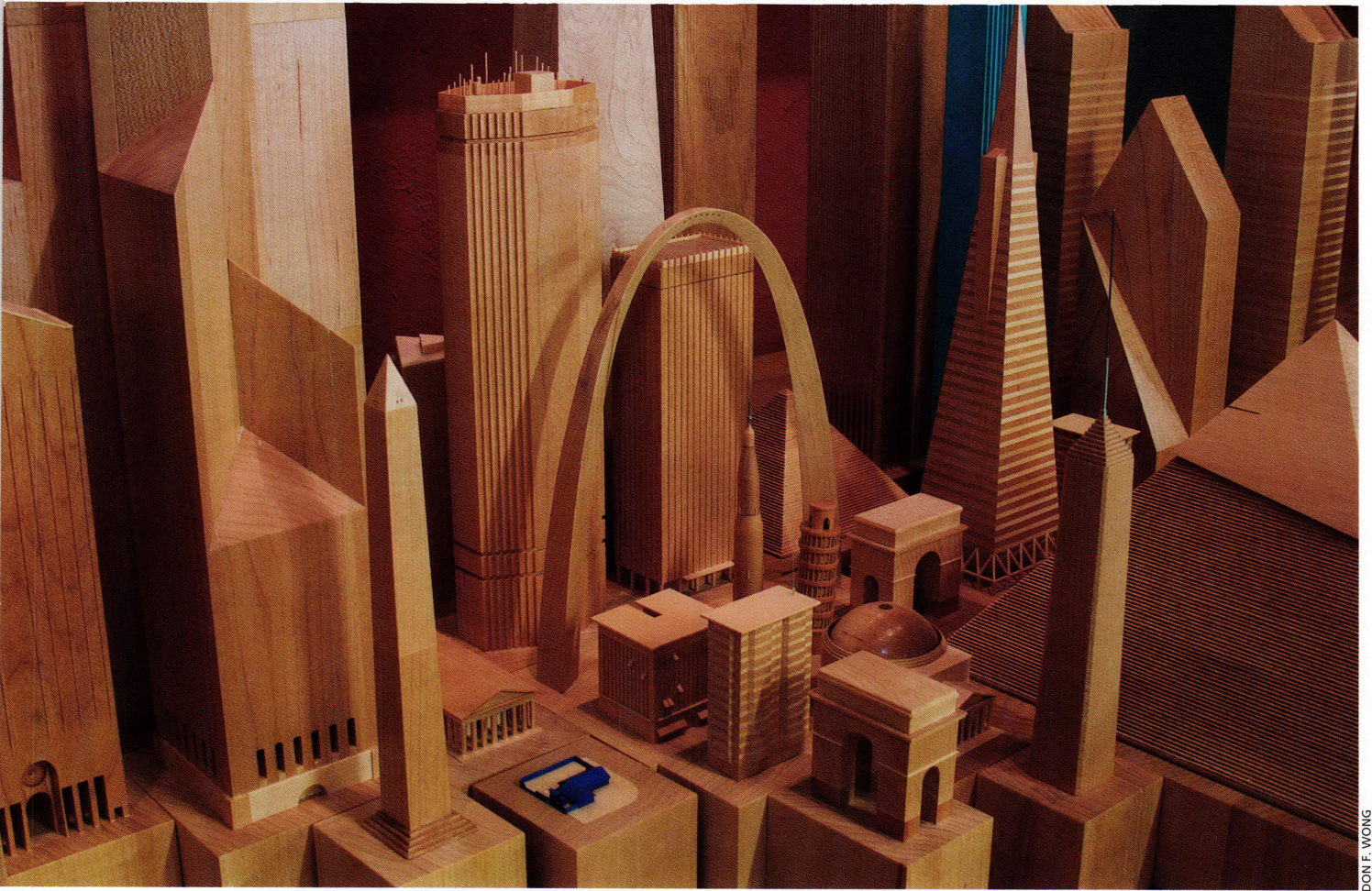
*The new kitchens designed by HGA (opposite) are visually connected with second-floor offices and the lush landscape through a dramatic, light-filled, two-story glazed atrium.*

*Drawn to the second-floor windows of the atrium—like party guests who inevitably drift toward the activity of the residential kitchen—General Mills employees and visitors pass by, stop, chat and observe with interest the activities in the test kitchens below.*



# Betty Crocker KITCHENS





DON F. WONG

# The Art of Model Making

Architectural model making takes place behind the scenes, but it remains an integral part of the design process and a key to fostering client understanding *By Jack El-Hai*

**A**t one end of downtown Minneapolis, in a former warehouse office now occupied by Feyereisen Studios, four architectural model builders work at their trade. Power tools and racks stocked with lumber surround them. And a miniature cityscape of detailed wood models, in which New York's lost World Trade Towers sit a block away from the Transamerica Pyramid in San Francisco, stands at the front door.

At the other end of downtown Minneapolis, two employees of the international firm Parker Durrant labor in a model shop one-quarter the size of Feyereisen Studios. They construct their models from foam and cardboard. And the firm's architects and designers frequently enter the shop to tinker with the models or carry them back to their offices for show and tell.

These two shops represent the range of architectural model building in Minnesota, a behind-the-scenes aspect of the design process that often sits in the shadow of the profession, yet is integral to it. Architects rely on models, which are constructed

from a wide variety of materials, for the early conceptualization of projects, for refining particular sections of a project, and for presenting ideas to clients and to the public. Despite the widespread use of three-dimensional computer-modeling programs over the past decade, the importance of handcrafted physical models hasn't diminished.

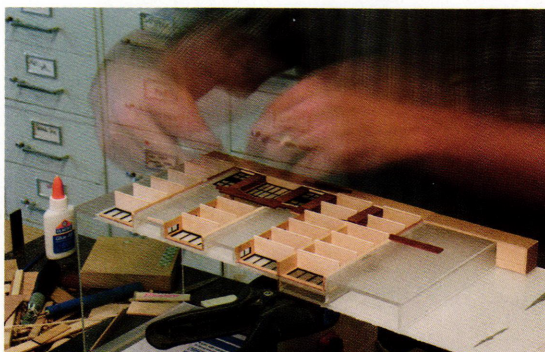
Bob Feyereisen, Assoc. AIA, opened his model-building studio in 1991 after attending the College of Architecture and Landscape Architecture at the University of Minnesota, then working for several years as an intern and model maker at Hammel, Green and Abrahamson, Inc., Minneapolis. The son of a home remodeler, Feyereisen says he's always loved working with wood. His clients are architects without access to an in-house model-building shop and, to a growing extent, property developers seeking accurate, detailed and beautiful models to use as sales tools.

"The first question I'll always ask a client is, 'Why do you want the model?'" Feyereisen says. The answer determines the materials he selects for the model, the level of detail it will include and the cost. Study models, which are built to help an architect think through a specific design challenge, are often constructed from blocks of foam with little or no detail and can cost about \$1,000. More intricately detailed models for presentation to architectural clients or for public display can run upward of \$35,000. Models displaying large swaths of property for real-estate developers can cost substantially more.

Although Feyereisen builds models from foam, aluminum and plastics, he favors wood. Architects are frequently surprised to discover that wood is not a comparatively expensive modeling material. Recent advances in the use of computer-guided routers and other cutting tools—equipment borrowed from the furniture industry—have greatly reduced the time it takes to build some wood models. Such technology made possible Feyereisen's creation of a smoothly sculpted and topographically accurate three-inch-thick basswood base for the studio's handsome model of the proposed Groveland Condominiums in Minneapolis.

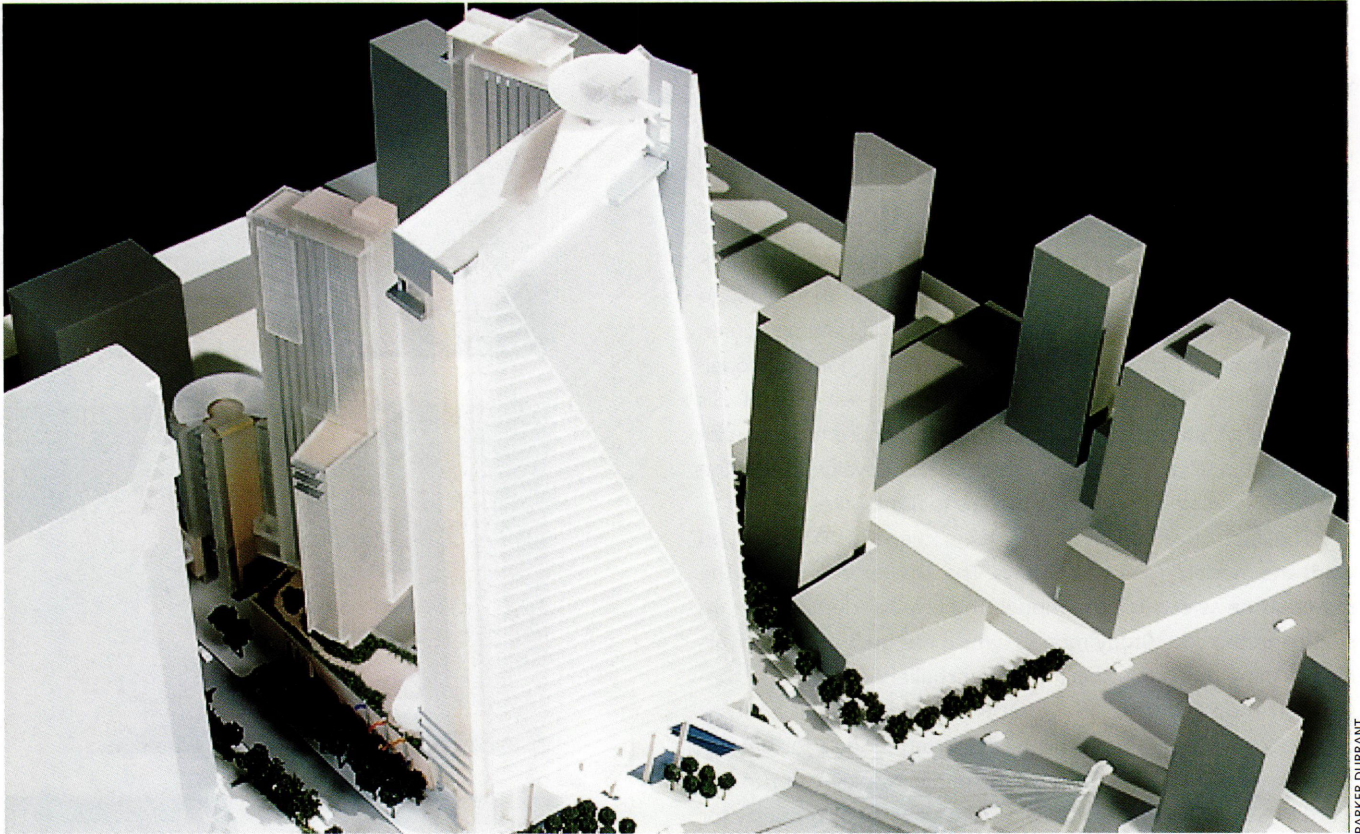
"Wood adds life and depth that you don't find in plastics," Feyereisen says. Still, architects "have an aesthetic for what they want to see in a model" and wood doesn't always offer the best results. In a recent model of the proposed Minnesota Shubert Performing Arts and Education Center in downtown Minneapolis, commissioned by Artspace Projects, Feyereisen and his staff used wood to recreate the Hennepin Center for the Arts and Shubert Theater, but the curved fins of the proposed atrium that connect the buildings demanded something different. Feyereisen put into action a new technology called stereolithography, which uses computer-guided lasers to cast pieces in ultra-thin layers of resin. The process is expensive, but the results are dramatic and accurate.

A handful of architectural firms, like HGA, have their own in-house model shops, as "model building is an important part of

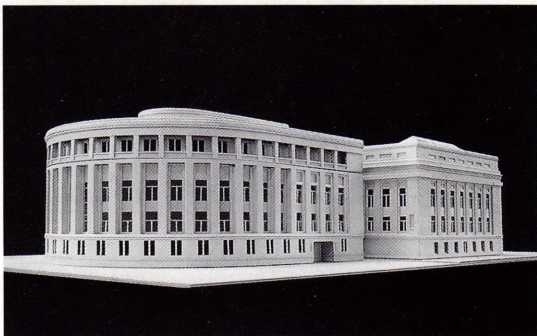


DON F. WONG

*A compilation of building models from around the world greets visitors to Feyereisen Studios (opposite). For Bob Feyereisen, Assoc. AIA, the model-making process includes preparing drawings that ensure the accuracy of the computer-guided router (top), hand assembly (above middle), and preparing a jig for the model installation (lower middle). Mitch Getta, Ron Hansen, Karen Tyvoll and Feyereisen pitch in on assembly (above).*



PARKER DURRANT



PARKER DURRANT

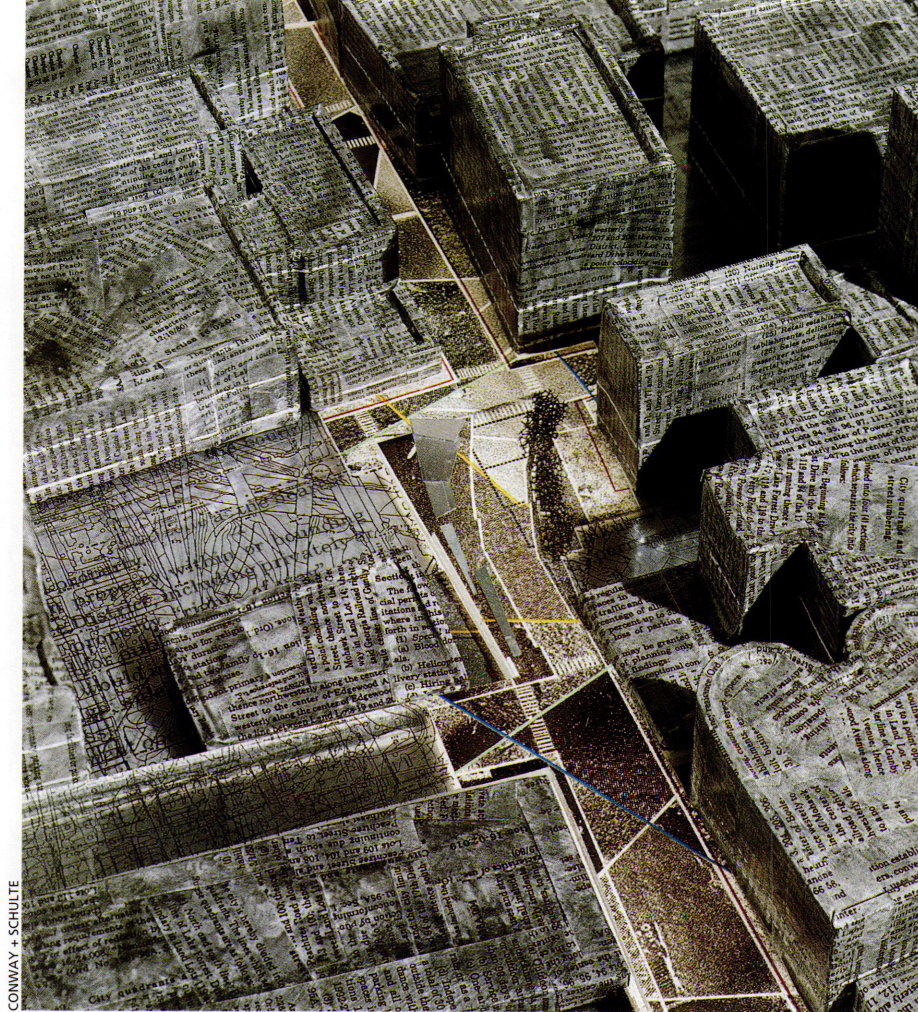
*At Parker Durrant, Minneapolis, model making is an integral and communicative part of the design process, whether the client is across the world, as in this model for Eul Chi Ro, Seoul, South Korea (top), or across the country, as in the model for Oklahoma Judicial Center, Oklahoma City (above).*

our culture," says Vicki Hooper, AIA, associate vice president. The firm employs two full-time model builders, who construct models for both study and presentation, with wood being the favored material. The HGA model shop underwent a significant enlargement six years ago. "Even in belt-tightening times, we've never cut it out," Hooper says.

"Models are integral to our design process," adds Cynthia McCleary, Assoc. AIA, design associate, Parker Durrant. Nearly everyone at the firm spends time building models at various stages of the design process. And the model shop is situated right next to the firm's main working space, making it easy for designers and architects to carry a model from the shop to their desk for study.

The Parker Durrant model shop has small tabletop machines for cutting and sanding wood, but they're rarely used. Instead the staff often works with foam, especially for projects in early stages of conceptualization, sometimes even before the actual building materials of a project are known. Each design project generates from a few to more than 20 models, especially for the firm's large-scale international projects. "When we and the client don't speak the same language, models can speak for us," McCleary says.

Similarly, clients who have trouble reading architectural drawings never experience difficulties in understanding a model. "Models have produced many 'a-ha' moments for clients," says William Conway, AIA, principal, Conway + Schulte Architects,



CONWAY + SCHULTE

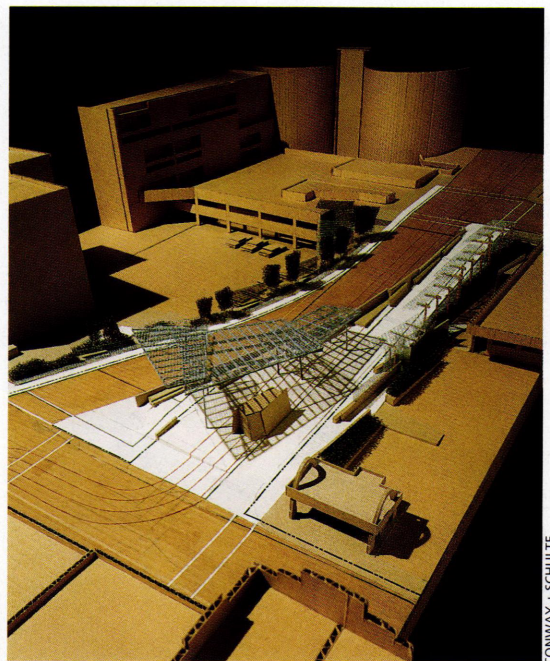
*This early concept model by Conway + Schulte for a project called De-Code/Re-Code Atlanta (left) is wrapped in text from the city's zoning ordinance, while the firm took a more traditional approach to the Domestic Sections project (below), which features a lattice-like, flexible combination of roof and wall.*

Minneapolis, whose small firm has an in-house model shop. "They elicit the kinds of comments that are very helpful to us."

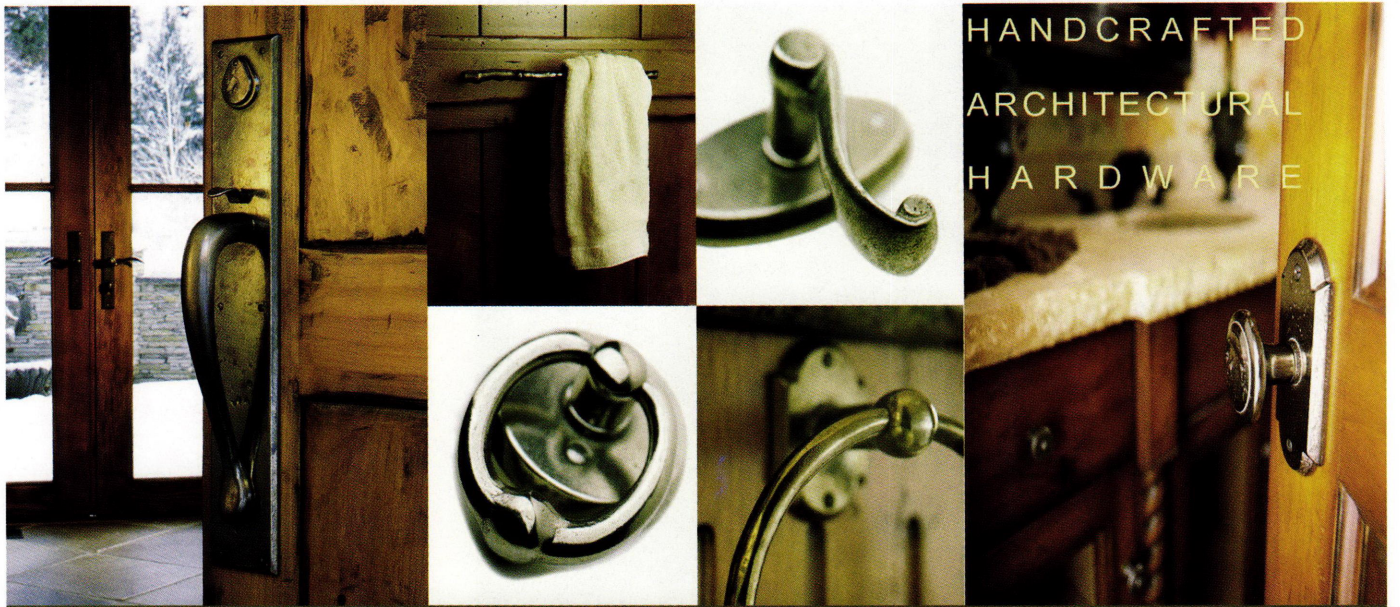
Despite the growing prominence of 3D computer modeling, firms like Conway + Schulte still rely on the physical models staff construct to convey ideas clearly to clients. "Digital representations can capture the essence of a design, but they often don't provide important physical and spatial clues to clients," Conway says. Once a project is completed, he adds, models are rarely discarded. Not only are they works of art with decorative value, the ideas embodied in carefully constructed models make them visual examples of problem solving that are worth retaining for years. "Models are physical references to a set of issues, tests for a project that may help in another project," Conway explains.

When creating a physical model based on a virtual 3D model supplied by a client, a model maker like Feyereisen must tread a fine line between maintaining accuracy and providing too much detail. "There's always an important interpretation factor and there's editing that happens regardless of the project," he says. "Too much detail and color is a bad thing—you want the model to be realistic, but not like a model railroad set, which can be campy and a turn-off."

What his clients always want, Feyereisen believes, is a beautiful model that accurately portrays the architecture. And that's what Feyereisen and his colleagues, whether in-house or off-site, deliver.



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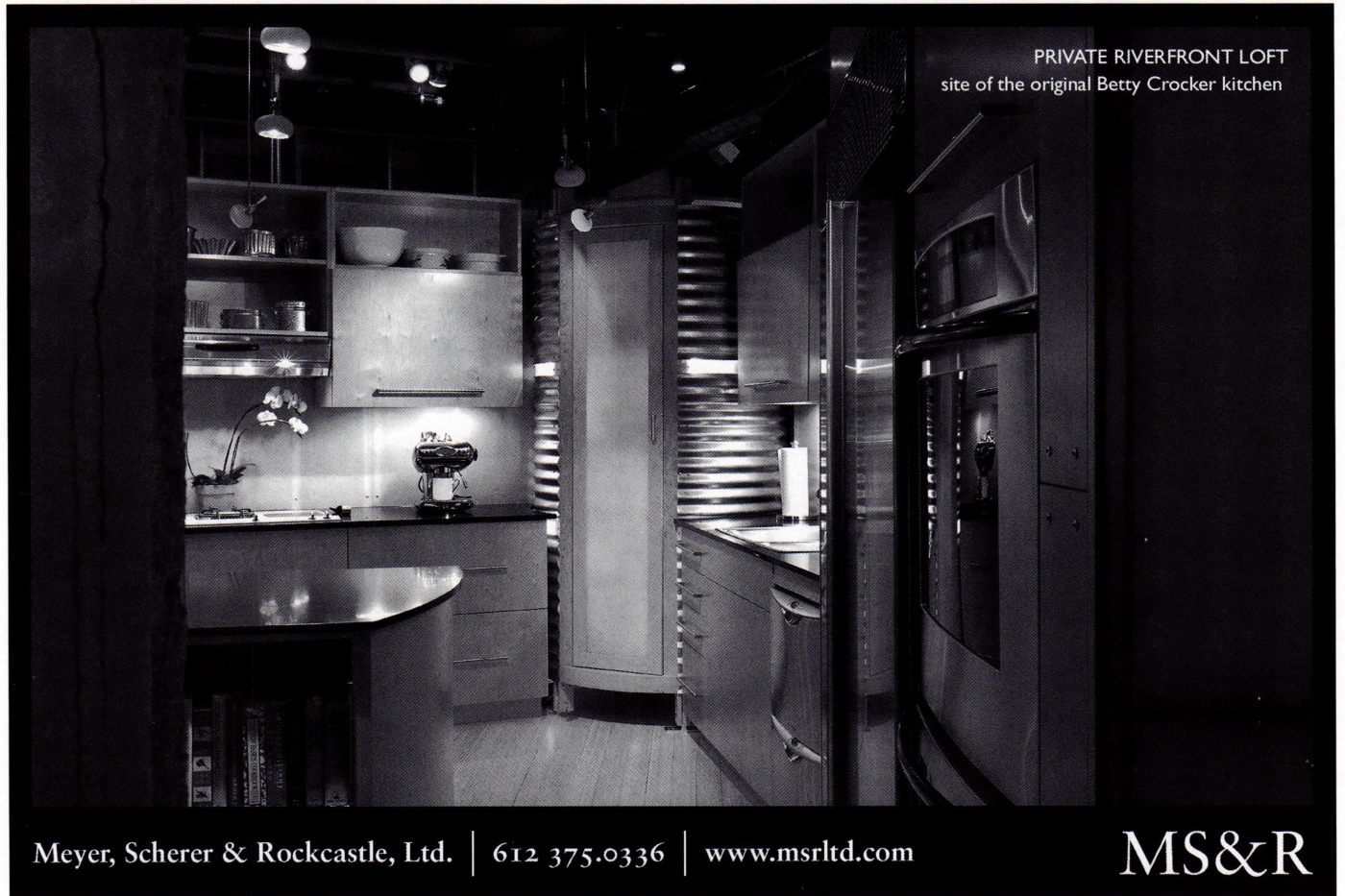
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## book review

Continued from page 13

eyes fixed on the computer screen, designers will become less and less attuned to the psychological and social dimensions of the places they are designing." In Israel's book, Duany also expresses his concerns that architectural students have grown up in highly manipulated and fad-oriented environments, and that this approach must be countered by educating students about tapping into their own environmental stories.

Design psychology, while still in its infancy within the fields of architecture, interior design and planning, is one tool or process by which to make the design process more holistic, Israel argues. In fact, the power of connection between place and self is already revealing itself to such professions as psychology, neurology and medicine.

"We shape our buildings and then our buildings shape us," Winston Churchill famously said. Design psychology is one way to make a profound impact on health and behavior in our interior spaces, by incorporating positive past experiences of place into successfully designed environments for the future. **AM**



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## endangered

Continued from page 17

of exquisite Quezal art glass. The Congdons selected both gas and electric power to illuminate these fixtures.

According to Jack Bowman, dean, School of Fine Arts, University of Minnesota, Duluth, "One of the attributes that makes Glensheen unique among American house museums is that Glensheen has 99 percent of its original furnishings." Fran Mullin, principal, Mullin Interior Design, Minneapolis, says the quality and extent of Glensheen's interiors are unequaled by any other building in Minnesota. She notes that John Scott Bradstreet, one of Minnesota's most renowned interior designers in the late-19th and early 20th centuries, drew plans for many of Glensheen's interior spaces and designed much of the furniture, which was made in Minnesota.

Bradstreet greatly influenced the development of Arts and Crafts style in Minnesota, and is recognized as a national figure in

Continued on page 55

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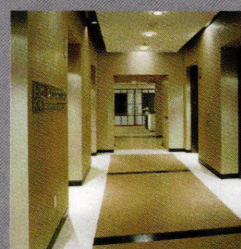
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## endangered

Continued from page 53

the movement. One of Mullin's favorite Bradstreet spaces in Glensheen is the breakfast room, which features fumed-oak paneling, spacious windows facing the formal gardens and the lake, and Arts and Crafts tile—made by the Rookwood Pottery Company—that covers the floor, some walls, radiator grills and a wall fountain. The gold simulated-leather ceiling is trimmed in green-stained cypress and chestnut.

According to Bowman, when the Congdon estate transferred ownership to the University of Minnesota Duluth, no endowment was created to provide for upkeep and maintenance, and the university established the estate's financial operation to be exempt from public funding. As a result, Glensheen's income is derived from the sale of admission tickets, and with funds from private donors, The Friends of Glensheen Foundation, and weddings and other events.

Mullin and members of the American Society of Interior Designers are currently forming a volunteer group to prepare plans to guide restoration of one of the rooms; eventually, the group intends to provide design documents for most or all of the endangered interior spaces. Sarah Bell, board member, Preservation Alliance of Minnesota, is coordinating these efforts with Bowman and the Fine Arts Department at the University of Minnesota, Duluth.

Their work entails analyzing conditions for appropriate restoration measures, research to obtain original materials or companies that can recreate them, and the daunting task of prioritizing needs and available resources. But the necessity of finding funds to begin restoration remains. Whether step-by-step restoration can out-pace continued degradation is an open question.

Bowman calls Glensheen "a tremendous example of Arts and Crafts interior design," adding, "here is a wonderful union of interior architecture with furnishings created and selected to form a fully integrated design. Glensheen is a historical model for the period." Susan Roth, records administrator, Minnesota Historical Society, St. Paul, who oversees the historic-designation process, confirms that the entire Glensheen property, including mansion interiors, is listed on the National Register of Historic Places.

Continued on page 56

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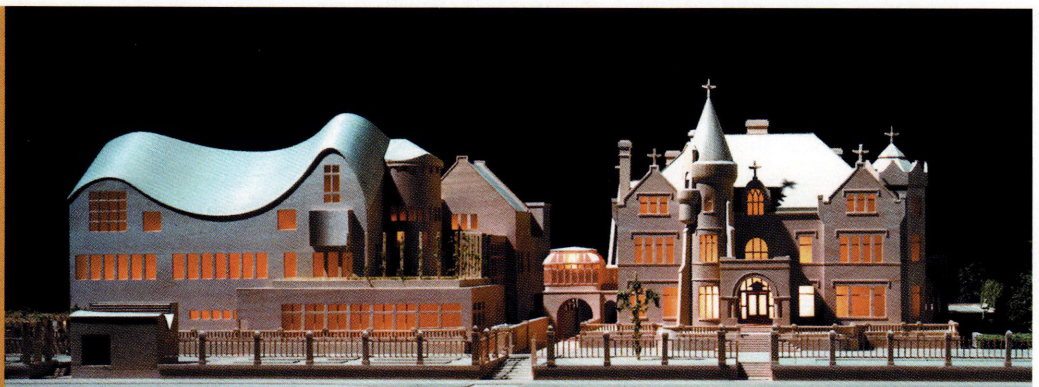
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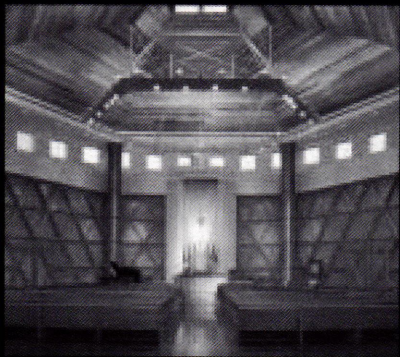
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The Groveland Condominiums, Mpls Architect: Miller Hanson Partners Photo: Wentink Photography

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### endangered

*Continued from page 55*

Mullin echoes Larson's recognition of how Johnston and the William A. French Company worked with the fashion of the times by utilizing period revivals and bringing the 20th century's emerging Arts and Crafts spirit into exquisite architectural synthesis, all the while reflecting the opulent prosperity that Duluth enjoyed during that period.

"While East Coast mansions were copying Europe for styles of the past," Mullin observes, "Glensheen in Duluth exhibits the new 20th century and a coming into regionalism." Her observation underscores the historic significance of Glensheen as a symbol of Minnesota's early 20th-century role in developing an American spirit in the architecture that represents the nation we were aspiring to be. Moreover, today's Minnesota design professionals are rediscovering regionalism that reflects our values and our aspirations; an effort that once again demonstrates how history—more than representing who we were—is a lesson plan for instructing us about who we want to be. **AM**

### technology

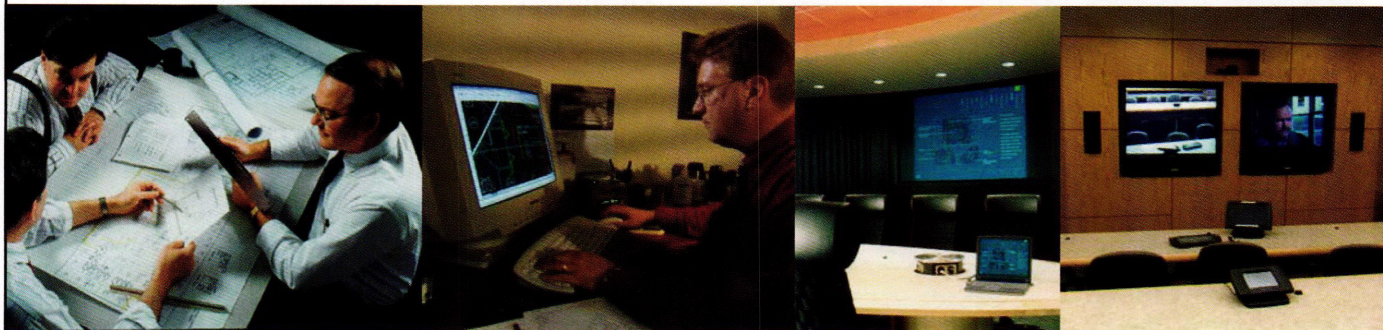
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The balance between structure and services varies considerably between building types—services truly predominate in a hospital or lab building, as opposed to a simple warehouse. Regardless of type, however, the gradual ascendancy of services is far reaching.

Services demonstrate their most satisfying integration thus far in "intelligent" service systems, which allow seamless building operation. For example, a smart-metering component for electricity and other utilities increases energy-management capabilities, giving facilities managers the information they need to make better decisions about reducing overall energy use and operational costs. By turning off unnecessary lights and not heating unoccupied rooms, commercial buildings can cut utility bills by 20 to 30 percent. Similarly, home-management systems allow homeowners to control security, energy, entertainment and communications through one integrated system.

*Continued on page 58*

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## technology

Continued from page 56

While simple in concept, integrating systems is a tall order. Building services, and their digital controls, are made by scores of manufacturers, use proprietary hardware and software, and may even be administered through special workstations that are almost impossible to integrate into a single control setup. Managing such systems has been a Tower of Babel. But the emergence during the 1990s of two generic platforms—BACnet (Building Automation and Control Networks) and LonWorks (Local Operating Network)—offers hope for better operation administration.

BACnet is software developed specifically for mechanical and electrical systems. Companies that manufacture such systems are now beginning to make devices that “speak” BACnet rather than, or in addition to, proprietary control languages. In contrast, LonWorks is a software/hardware combination originally developed by Echelon Corporation as a networking platform in general—i.e., it was not developed specifically for building systems. BACnet was adopted by the International Organization for Standardization in January 2003 as a building-automation standard, while the LonWorks platform is installed in more buildings worldwide than BACnet. Together these platforms control countless buildings and building complexes throughout the United States and the world.

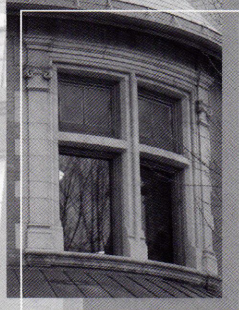
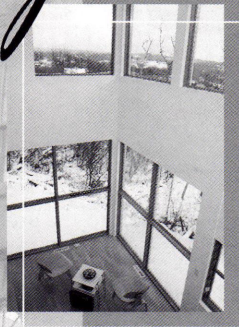
Data from BACnet and LonWorks can be displayed on Web browsers, which helps smooth communication between proprietary systems. In fact, the World Wide Web is transforming building control. More building owners demand remote access to building systems and manufacturers are making access available through Web browsers instead of proprietary workstations. Other platforms are playing catch-up in this regard. For example, Johnson Controls systems utilize a proprietary language, Metasys, that’s incompatible with BACnet or LonWorks. Johnson has teamed with Microsoft’s .NET technology so that its HVAC, lighting and other building systems can be monitored and operated online.

At the same time, however, while the software/hardware integration of smart buildings is sound, the interface for human interaction often isn’t optimally designed. According to Tom McDougall, engineer and vice president,

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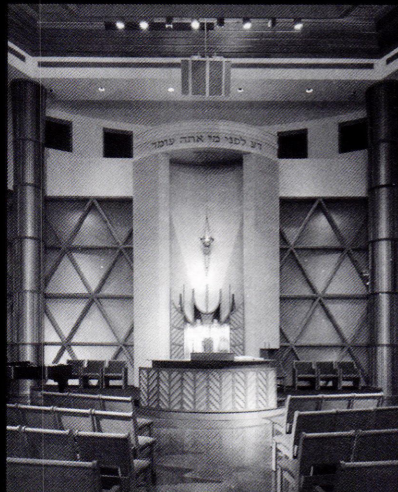
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**technology**

*Continued from page 58*

The Weidt Group, Minnetonka, “only 10 to 20 percent of most energy-management systems are harnessed. They offer a high degree of control, but lack operation ease. The interface must catch up with the software and hardware.” After all, a smart building is only as intelligent as the facility manager monitoring or overseeing its performance.

In some cases, design intentions are easily subverted. As Hunt notes, a sophisticated photo sensor to dim lights in relation to available daylight can be “overridden with a simple piece of opaque tape, to guarantee that the lights are always on.” Hunt adds that, “occupants crave control over their environment and can be inventive about ways to achieve that control if they aren’t comfortable. If there is too much light, occupants will put paper in windows or remove light bulbs; if there is glare on computer screens, they will hood their computer screens with cardboard.”

A project on which Hunt worked, ADC Telecommunications World Headquarters, Eden Prairie—the smartest building in Minnesota according to McDougall—focused on the idea of occupant control. For instance, the HVAC is controlled at individual workstations, with air delivered through a raised-floor system. The architecture—which features skylights, atriums and open perimeter spaces—harvests daylight, which is supported by photo and occupancy sensors to reduce electric lighting. Natural and ambient electric lighting is offset by task lighting, offering workers more direct light control.

ADC’s corporate culture supports advanced technology, not unusual for a technology company. The firm made the investment in smart-building systems and wants to see those systems succeed. But Hunt says the systems required a significant amount of tuning during the building commissioning. In particular, the occupancy sensors didn’t turn on the lights fast enough when people entered rooms. Coordinating the hardware and software before the building opened required patience. Some of the new and novel technologies demanded significant initial support.

Efforts to make buildings smarter have most typically focused on cutting energy

*Continued on page 62*

We congratulate Mount Zion Temple Congregation on winning a Heritage Preservation Award from the Saint Paul Preservation Commission and the Saint Paul Chapter of the American Institute of Architects. It was a pleasure working with them to restore and transform the modern masterpiece originally designed by Erich Mendelsohn.

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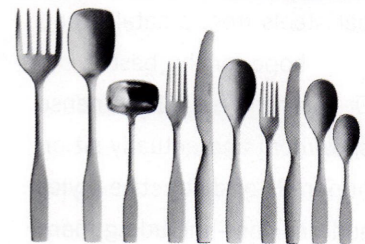
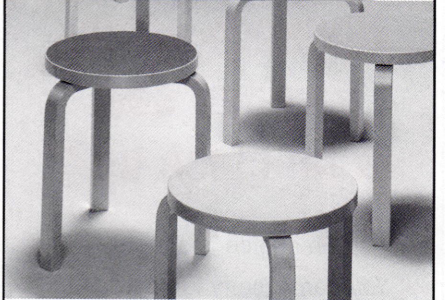
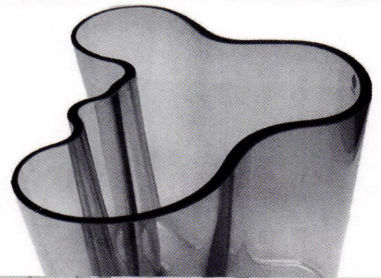
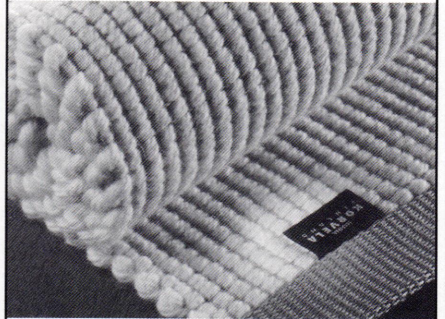


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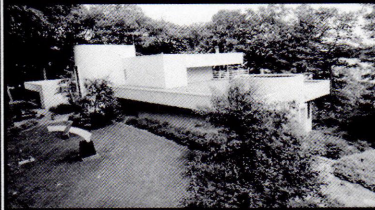


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## technology

Continued from page 60

costs by better managing air conditioning and lighting, especially in office settings like ADC, while not sacrificing occupant comfort, control or productivity. But smart buildings vary by type. Because in healthcare projects the exam and operating rooms typically lack windows, the opportunities to coordinate electric and natural lighting—a smart-building strategy in most offices—isn't available. Patient and doctor thermal comfort are the prime concerns; temperature can often be controlled in each room. In hospitality projects, like a hotel, a room's light and temperature controls might be monitored at the front desk, so the room can be readied before the guest enters.

While this generation of smart buildings is still evolving, research efforts are ongoing. In response to terrorism, smart buildings of the future will shut down air handling to seal off harmful chemical substances. They'll anticipate earthquakes and will seal gas lines and automatically change the way internal structures carry weight, to minimize damage and danger from such natural disasters. From an occupant standpoint, smart buildings have the potential to create not only more environmentally sensitive facilities, but safer ones, as well.

The charge to create smart buildings is, of course, having an impact on the architectural profession. The ascendancy of building services has meant, in some cases, less money for cladding and other envelope elements—the traditional architectural domain. In addition, the increase in services means architects, as project leaders, must ensure the proper coordination of their architectural work with the contributions of various engineers and technicians.

At the cusp of the last century, Le Corbusier actively commented on modern technology and building systems, noting that architecture could be a "machine for living." He found poetry in the idea of a smart building of his day. At the same time, he bemoaned the increasing importance of building services, jealous of those earlier architects who did not "have to deal with pipes." The tension he highlights and wrestled with is still with architects today. **AM**



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- AICP** American Institute of Certified Planners
- ASID** American Society of Interior Designers
- CID** Certified Interior Designer
- CSI** Construction Specifiers Institute
- FAIA** Fellow and Registered Member of the American Institute of Architects
- IFMA** International Facilities Management Association
- IIDA** International Interior Designers Association
- PE** Professional Engineer

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Duane A. Kell	FAIA
Ronald W. Ankeny	AIA, CID
Pamela Bakken Anderson	AIA, CID
Deborah E. Rathman	AIA
Thomas J. Betti	—

Firm Personnel by Discipline

Architects	8
Interior Designers	3
Other Professional	9
Other Technical	5
Administrative	4
Total in Firm	29

	Work %
Office Bldgs/Banks/Financial	8
Retail/Commercial	5
Manufacturing/Industrial	8
Churches/Worship	2
Municipal	22
Education/Academic	15
Ice Arenas/Recreational, Community Centers, Athletic Facilities	40

—  
 Bloomington City Hall, Police Facility/Center for the Arts, New, Bloomington, MN; Grandview Community Center, New, Grandview, MO; The Blake School Natatorium, Restoration and Remodel, Hopkins, MN; Roseville City Hall and Civic Campus, New and Remodel, Roseville, MN; Jewish Community Center, New and Remodel, Saint Louis Park, MN; Blaine City Hall and Police Facility, New, Blaine, MN

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 www.archalliance.com  
 Established 1970

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Dennis LaFrance	AIA, CID
Peter Vesterholt	AIA, CID
Sharry Cooper	IIDA, CID
Cindy Ellsworth	—
Eric Peterson	AIA

—  
 Firm Personnel Discipline

Architects	28
Interior Designers	7
Other Professional	31
Technical	5
Administrative	7
Total in Firm	78

Continued on next column

Office Bldgs/Banks/Financial	20
Retail/Commercial	15
Medical/Health Care	5
Municipal	20
Education/Academic	15
Aviation	25

—  
 Anchorage International Airport, New Terminal and Concourse Expansion, Anchorage, Alaska; University of Minnesota, New Microbial and Plant Genomics Building, St. Paul, MN; Blue Cross Blue Shield of Minnesota Yankee Place Office Building/Warehouse Remodeling, Eagan, MN; New Guthrie on the River, Minneapolis, MN; New Minneapolis Central Library, Minneapolis, MN; Caribou Coffee Stores, 300 Locations in MN, IL, WI, OH, MI, NC, GA, VA, MD and DC

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 www.bdhyoung.com  
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Jill Brecount	CID
Kim Dennis	CID, IIDA
Darcy Hield	CID
Kathy Young	CID
Patrick Giordana	AIA
Karen Harris	CID

—  
 Firm Personnel by Discipline

Architects	3
Interior Designers	15
Technical	5
Administrative	2
Total in Firm	25

	Work %
Housing/Multiple	20
Office Bldgs/Banks/Financial	45
Retail/Commercial	5
Manufacturing/Industrial	10
Medical/Health Care	15
Churches/Worship	5

—  
 Grant Park, Minneapolis, MN; Columbia Park Medical Center, Minneapolis, MN; Cargill, Inc., Minnetonka, MN; Harmon Inc., Two Locations in Minneapolis, MN; Summer Hill Senior Cooperatives, Four Locations; D. R. Horton, Inc., Lakeville, MN

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Robert G. Rietow	AIA, CID

Continued on next column

Robert Zimmerman	AIA, CID
R. Bruce Cornwall	AIA, CID
Ann Voda	AIA, CID
Gary F. Milne Rojek	AIA

—  
 Firm Personnel by Discipline

Architects	15
Interior Designers	5
Technical	1
Administrative	1
Total in Firm	18

	Work %
Housing/Multiple	5
Office Bldgs/Banks/Financial	10
Retail/Commercial	15
Churches/Worship	20
Municipal	10
Education/Academic	20
Higher Education Planning	10
Libraries	10

—  
 Hennepin County-Eden Prairie Library, Eden Prairie, MN; 701 East Lake Street, Wayzata, MN; Bat Shalom Congregation, Minnetonka, MN; Jacob V. Brower Visitor Center, Itasca State Park, MN; Hennepin County, Taxpayer Service Center, Maple Grove, MN; Saint Paul Academy Middle School and Summit Center, St. Paul, MN

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Bill Baxley	AIA
Ted Redmond	AIA
Mike Krych	AIA
Kelly Naylor	CID
Racquel Kuehn	CID

—  
 Firm Personnel by Discipline

Architects	22
Interior Designers	4
Engineers	10
Other Professional	3
Technical	8
Administrative	5
Total in Firm	52

	Work %
Housing/Multiple	30
Office Bldgs/Banks/Financial	10
Retail/Commercial	5
Municipal	30
Education/Academic	10
County/State Facilities	15

—  
 Excel Bank Remodel, Minneapolis, MN; Edina City Hall and Police Station, New, Edina, MN; Shakopee Library, New, Shakopee, MN; Bankers Systems International, St. Cloud, MN; University and Dale Development, New Lexington Library, St. Paul, MN; Freeborn County Government Center, Remodel and Addition, Albert Lea, MN

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Brian B. Buchholz  
John A. Strachota

Firm Personnel by Discipline  
Architects 66  
Interior Designers 14  
Other Professional 13  
Technical 4  
Administrative 10  
Total in Firm 115

Work %  
Office Bldgs/Banks/Financial 5  
Medical/Health Care 50  
Churches/Worship 10  
Municipal 10  
Education/Academic 10  
Corrections/Detention/Justice Transportation (Transit, Aviation, Parking) 5

Mayo Family Clinic Northeast, Rochester, MN; Minnehaha County Jail, Sioux Falls, SD; Shoreview Community Center Expansion, Shoreview, MN; RSM McGladrey Corporate Office Relocation, Bloomington, MN; Wheaton Community Hospital Expansion, Wheaton, MN; Shepherd of the Lake Lutheran Church at Shepherd's Path, Prior Lake, MN

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William D. Hickey  
Michael W. Jordan  
Jame O'Shea  
Craig A. Milkert  
Pamela Gilbert

Continued on next column

Firm Personnel by Discipline  
Architects 16  
Interior Designers 5  
Engineers 5  
Other Professional 3  
Technical 1  
Administrative 2  
Total in Firm 32

Work %  
Housing/Multiple 30  
Office Bldgs/Banks/Financial 10  
Retail/Commercial 10  
Manufacturing/Industrial 10  
Municipal 20  
Education/Academic 20

Resources for Child Caring, Interior Remodel, Little Canada, MN; Nicholson Hall Rehabilitation, University of Minnesota, Minneapolis, MN; Lowry Building Renovation and Conversion, St. Paul, MN; Aberdeen Condominiums, St. Paul, MN; Community Reinvestment Fund, Office Tenant Build-out, Minneapolis, MN; Midtown Exchange Building, Adaptive Re-use, Minneapolis, MN

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Timothy Dufault AIA  
David M. Solner AIA  
Brian Tempas AIA

Firm Personnel by Discipline  
Architects 77  
Interior Designers 6  
Other Professional 7  
Technical 19  
Administrative 33  
Total in Firm 142

Work %  
Housing/Multiple 20  
Office Bldgs/Banks/Financial 5  
Retail/Commercial 15  
Churches/Worship 5  
Education/Academic 25  
Interior Architecture 5  
Planning: Master/Urban/Land 5  
Entertainment/Hospitality 25  
Epic Systems Corporation New Headquarters, Madison, WI; Arts IMPACT Middle School, New, Columbus, OH; 710 Lofts, New, Minneapolis, MN; Haihe Beach

Continued on next column

Park, New, Tanggu, China;  
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Rebecca Lewis AIA, CID  
John F. Scott  
Randy Wagner AIA

Firm Personnel by Discipline  
Architects 11  
Interior Designers 2  
Other Professional 1  
Technical 21  
Administrative 5  
Total in Firm 40

Work %  
Housing/Multiple 5  
Residences/New & Remodel 5  
Office Bldgs/Banks/Financial 10  
Retail/Commercial 10  
Manufacturing/Industrial 5  
Medical/Health Care 25  
Municipal 10  
Education/Academic 30  
Northern Lights Hotel and Conference Center, New, Walker, MN; Grand Rapids Middle School, New, Grand Rapids, MN; St. Luke's Pavillion I and II, New, Duluth, MN; Blue Cross/Blue Shield, New, Virginia and Aurora, MN; Grant Thorton Offices, Remodel, Minneapolis, MN

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Established 1994

Daniel K. Duffy AIA, CID  
Firm Personnel by Discipline  
Both Architect and Interior Designer 1  
Technical 1  
Administrative 1  
Total in Firm 3

Continued on next column

Work %  
Residences/New & Remodel 20  
Office Bldgs/Banks/Financial 10  
Retail/Commercial 10  
Medical/Health Care 40  
Churches/Worship 10  
Education/Academic 10

Carpet King Corporate Offices, Minneapolis, MN; Blessed Sacrament Church Parish Hall, Renovation, Sioux City, IA; Various Projects, Allina Health Systems, Minneapolis, MN; Whiting Public Library, Whiting, IA; Brandsness Residence, Minneapolis, MN; Fosbury Residence, Deephaven, MN

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Christy Devens NCIDQ  
Wendy Fimon CID  
Karen Kjos CID  
Ken LeDoux AIA, CID  
Jim Lewison CID

Firm Personnel by Discipline  
Architects 148  
Interior Designers 40  
Engineers 88  
Other Professional 15  
Technical 15  
Administrative 40  
Total in Firm 346

Work %  
Office Bldgs/Banks/Financial 25  
Retail/Commercial 5  
Medical/Health Care 40  
Education/Academic 10  
Sports/Recreation/Athletic 20

University of Nevada, New Student Union, Las Vegas, NV; Target Corporation, Multifoods Tower Cafeteria Renovation, Minneapolis, MN; Park Nicollet Health Services, New Heart and Vascular Center, St. Louis Park, MN; Federal Reserve Bank of Kansas City, New, Kansas City, MO; City Public Service, New Primary Control Center, San Antonio, TX; Samsung Medical Center, New Expansion Project and New Construction, Seoul, Korea

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Mark Ostrom CID, IFMA  
 Mark Swenson AIA  
 David Graham AIA

Firm Personnel by Discipline	
Architects	26
Interior Designers	2
Other Professional	4
Technical	39
Administrative	7
Total in Firm	78

	Work %
Housing/Multiple	40
Office Bldgs/Banks/Financial	20
Retail/Commercial	10
Manufacturing/Industrial	5
Municipal	5
Hotel/Resort	20

Wells Fargo, Tenant Improvements, Various Locations; Imation Enterprise, Woodbury, MN; Excelsior & Grand, Mixed Use, St. Louis Park, MN; 301 Kenwood, Minneapolis, MN; Gustavus Adolphus, New Residence Hall, St. Peter, MN; Grand Casino Hotel, Hinckley, MN

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 Joel Davy AIA  
 Robert Ames AIA

Firm Personnel by Discipline	
Architects	5
Interior Designers	2
Other Professional	2
Technical	5
Administrative	2
Total in Firm	16

Continued on next column

	Work %
Housing/Multiple	5
Office Bldgs/Banks/Financial	10
Retail/Commercial	5
Medical/Health Care	30
Churches/Worship	5
Municipal	5
Education/Academic	40

— Douglas County Hospital Surgery Center, Alexandria, MN; Ulteig Engineers Corporate Headquarters, Fargo, ND; St. Cloud Veterans Affairs Medical Center Mental Health Clinic, St. Cloud, MN; Great Plains Regional Office Building of Ducks Unlimited, Inc., Bismarck, ND; Waubun Ogema School, Waubun and Ogema, MN; Minnesota Veterans Home, Fergus Falls, MN

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 Established 1976

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David Leapaltdt AIA, CID  
 Daniel Tideman AIA, CID  
 Steve Paasch AIA  
 John Frischmann AIA  
 Evan Larson AIA, CID

Firm Personnel by Discipline	
Architects	6
Interior Designers	1
Architects in Training	3
Technical	2
Administrative	4
Total in Firm	16

	Work %
Residences/New & Remodel	5
Office Bldgs/Banks/Financial	10
Manufacturing/Industrial	10
Senior Health Care	30
Municipal	10
Education/Academic	35

— Rogers Elementary School, Addition and Remodel, Elk River Area School District, Rogers, MN; St. Cloud State University, Atwood Addition and Remodel, St. Cloud, MN; Monastery Main Building Renovation, College of St. Benedict, St. Joseph, MN; West View Assisted Living Apartments, Osakis, MN; Rinke-Noonan Attorneys, New Offices, St. Cloud, MN; Creative Memories, New Office Building/Manufacturing/Distribution Center, St. Cloud, MN

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 AnnMarie Wittig CID  
 Joe Mayhew AIA, CID  
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 Nancy Schmidt CID

Firm Personnel by Discipline	
Architects	218
Interior Designers	26
Engineers	99
Other Professional	31
Technical	44
Administrative	66
Total in Firm	484

	Work %
Office Bldgs/Banks/Financial	25
Manufacturing/Industrial	5
Medical/Health Care	45
Churches/Worship	5
Municipal	5
Education/Academic	10
Museums/Theaters/Restaurants	20

■ **DAVID HEIDE DESIGN STUDIO, LLC.**

301 Fourth Avenue South, Ste. 663  
 Minneapolis, MN 55415  
 Tel: 612/337-5060  
 Fax: 612/337-5059  
 E-mail: info@dhdstudio.com  
 www.dhdstudio.com  
 Established 1997

Other MN Office:  
 Wolverton, 218/995-2878

David Heide Assoc. AIA, Allied ASID  
 Mark E. Nelson AIA  
 Dan Teske

Continued on next column

Firm Personnel by Discipline	
Architects	1
Interior Designers	2
Other Professional	4
Administrative	1
Total in Firm	8

	Work %
Residences/New & Remodel	90
Office Bldgs/Banks/Financial	10
Historic Restoration/Preservation	70

— Pelican Lake Cottage, New and Interiors, Pelican Rapids, MN; Crocus Hill Tudor Residence, Remodel and Interiors, St. Paul, MN; Historic Milwaukee Avenue Residence, Remodel, Addition and Interiors, Minneapolis, MN; Merriam Park Residence, Remodel, Addition and Interiors, St. Paul, MN; Harwood Groves Residence, New, Fargo, ND; Mississippi Riverfront Condominium, Remodel and Interiors, Minneapolis, MN

■ **HORTY ELVING**

505 East Grant Street  
 Minneapolis, MN 55404  
 Tel: 612/332-4422  
 Fax: 612/344-1282  
 E-mail: moorer@hortyelving.com  
 www.hortyelving.com  
 Established 1955

Thomas Horty FAIA, FACHA  
 Barbara Kassanchuk  
 James C. Elving PE  
 Leo Monster Assoc. AIA  
 Rick Moore AIA, ACHA  
 Dan Williamson

Firm Personnel by Discipline	
Architects	11
Interior Designers	3
Engineers	4
Other Professional	6
Technical	3
Administrative	4
Total in Firm	31

	Work %
Medical/Health Care	85
Senior Housing	15

— St. Francis Medical Center, New and Remodel, Breckenridge, MN; Perham Memorial Hospital and Home, New and Renovation, Perham, MN; St. John's Lutheran Home, Renovation, Albert Lea, MN; Mackinac Straights Hospital, New and Renovation, St. Ignace, MI; Brewster Village, New, Appleton, WI; Regina Medical Center, New and Renovation, Hastings, MN

■ **HTG ARCHITECTS**  
 9300 Hennepin Town Road  
 Minneapolis, MN 55347  
 Tel: 952/278-8880  
 Fax: 952/278-8880  
 E-mail: jgrover@htg-architects.com  
 www.htg-architects.com  
 Established 1959

Other Office: Scottsdale, AZ  
 —  
 James R. Grover AIA  
 Jeffrey J. Pflipsen AIA

Firm Personnel by Discipline	
Architects	8
Other Professional	4
Technical	5
Administrative	4
Total in Firm	21

	Work %
Office Bldgs/Banks/Financial	85
Retail/Commercial	5
Municipal	10

—  
 Voyager Bank, Eden Prairie, MN;  
 Citizens Bank Minnesota, Lakeville,  
 MN; Minnsota Building Trades;  
 Franklin Bank, Minneapolis, MN;  
 Cambridge State Bank, Cambridge,  
 MN; First National Financial  
 Services Building, Elk River, MN

■ **KKE ARCHITECTS, INC.**  
 300 First Avenue North  
 Minneapolis, MN 55401  
 Tel: 612/339-4200  
 Fax: 612/342-9267  
 www.kke.com  
 Established 1968

Other Offices: Newport Beach  
 and Pasadena, CA

—  
 Ronald C. Erickson AIA  
 Thomas E. Gerster AIA  
 Gregory G. Hollenkamp AIA  
 Mohammed Lawal AIA  
 Quintin J. Scott AIA  
 Sara Rotholz Weiner Assoc. AIA

Firm Personnel by Discipline	
Architects	75
Interior Designers	9
Engineers	1
Other Professional	30
Administrative	25
Total in Firm	140

	Work %
Housing/Multiple	10
Office Bldgs/Banks/Financial	20
Retail/Commercial	20
Medical/Health Care	5
Municipal	10
Education/Academic	10
Hospitality/Entertainment	15
Senior Living	10

Continued on next column

Lower Sioux New Community  
 Center, Morton, MN; Briggs and  
 Morgan, P.A., New and Remodel,  
 IDS Center, Downtown  
 Minneapolis, MN; Café and Bar  
 Lurcat, Remodel, Loring Park in  
 Minneapolis, MN and Naples, FL;  
 Crossroads Center Food Court,  
 Expansion/New, St. Cloud, MN;  
 Sumner Community Library,  
 Historic Preservation and  
 Renovation/Addition,  
 Minneapolis, MN; Providence  
 Academy, New, Plymouth, MN

■ **KODET ARCHITECTURAL  
 GROUP, LTD.**  
 15 Groveland Terrace  
 Minneapolis, MN 55403-1154  
 Tel: 612/377-2737  
 www.kodet.com  
 Established: 1983

—  
 Edward J. Kodet FAIA, CID  
 Kenneth W. Stone AIA, CID  
 Paul G. May AIA  
 Joan M. Bren AIA, CID

Firm Personnel by Discipline	
Architects	6
Engineers	1
Other Professional	8
Administrative	3
Total in Firm	18

	Work %
Office Bldgs/Banks/Financial	5
Retail/Commercial	10
Medical/Health Care	5
Churches/Worship	25
Municipal	15
Education/Academic	25
Interior/Restoration/ Parks/Recreation	15

—  
 Burroughs Community School,  
 Minneapolis, MN; St. Joseph the  
 Worker Catholic Church, Maple  
 Grove, MN; Hopkins Public  
 Library Remodeling, Hopkins,  
 MN; Bloomington Public Works  
 Facility, Bloomington, MN; St.  
 Croix Lutheran High School  
 Chapel, West St. Paul, MN

■ **KRECH, O'BRIEN, MUELLER &  
 WASS, INC.**  
 6115 Cahill Avenue  
 Inver Grove Heights, MN 55076  
 Tel: 651/451-4605  
 Fax: 651/451-0917  
 E-mail: dobrien@komw.com  
 www.komw.com  
 Established 1985

—  
 Daniel J. O'Brien AIA, CID  
 Brady R. Mueller AIA, CID  
 Cindy Nagel CID  
 Mike Lisowski PE  
 Jim Krech PE

Continued on next column

Firm Personnel by Discipline	
Architects	7
Interior Designers	2
Engineers	3
Other Professional	1
Technical	2
Administrative	2
Total in Firm	17

	Work %
Office Bldgs/Banks/Financial	45
Retail/Commercial	10
Manufacturing/Industrial	25
Medical/Health Care	10
Municipal	10

—  
 Possip Medical Corporate Office,  
 Coon Rapids, MN; The Dentists at  
 Uptown Row, Minneapolis, MN;  
 Neuger Communications  
 Corporate Office, Northfield, MN;  
 Starkey Laboratories New Facility,  
 Eden Prairie, MN; Cenex Harvest  
 States Corporate Office Remodel,  
 Inver Grove Heights, MN; Great  
 Clips Corporate Office Addition,  
 Edina, MN

■ **LHB**  
 250 Third Avenue N., Ste. 450  
 Minneapolis, MN 55401  
 Tel: 612/338-2029  
 Fax: 612/338-2088  
 www.lhbcorp.com

Other MN Office:  
 Duluth – 218/727-8446

—  
 Rick Carter AIA, CID  
 Rachele Schoessler Lynn CID,  
 ASID  
 Sue Anderson IIDA, CID  
 Dave Bjerkness AIA  
 Jill Isola Johnson CID, ASID  
 K. C. Lim AIA, CID

Firm Personnel by Discipline	
Architects	23
Interior Designers	7
Engineers	33
Other Professional	10
Technical	39
Administrative	28
Total in Firm	140

	Work %
Housing/Multiple	20
Residences/New & Remodel	10
Office Bldgs/Banks/Financial	10
Retail/Commercial	10
Manufacturing/Industrial	10
Medical/Health Care	10
Municipal	20
Education/Academic	10

Continued on next column

Warners' Stellian Edina Store  
 Renovation, Edina, MN;  
 Behavioral Management Office  
 Remodel, Edina, MN; Weber  
 Deegan Office Remodel, Edina,  
 MN; North Woods Credit Union  
 Remodel, Duluth, MN; St. Mary's  
 Medical Center Executive Offices  
 Remodel, Duluth, MN; LHB Office  
 Remodel, Duluth and  
 Minneapolis, MN

■ **MEYER, SCHERER & ROCKCASTLE,  
 LTD. (MS&R)**

710 South 2nd Street, 7th Floor  
 Minneapolis, MN 55401  
 Tel: 612/375-0336  
 Fax: 612/342-2216  
 E-mail: info@msrltd.com  
 www.msrltd.com  
 Established 1981

—  
 Thomas Meyer AIA  
 Jeffrey Scherer FAIA  
 Garth Rockcastle FAIA  
 Lynn Barnhouse CID  
 Jack Poling AIA  
 Barry Petit

Firm Personnel by Discipline	
Architects	25
Interior Designers	8
Other Professional	1
Technical	3
Administrative	11
Total in Firm	48

	Work %
Housing/Multiple	25
Residences/New & Remodel	5
Office Bldgs/Banks/Financial	10
Education/Academic	20
Libraries	40

—  
 801 Washington Lofts, Adaptive  
 Re-use, Minneapolis, MN; Private  
 Residence and Guest House,  
 Orono, MN; Pre-Paid Legal  
 Services Corporate Headquarters,  
 Ada, OK; University of Minnesota  
 Regis Center for Art, Minneapolis,  
 MN; Fayetteville Public Library,  
 Fayetteville, AR; Saint Paul  
 Central Library, Renovation,  
 Saint Paul, MN

■ **MOHAGEN/HANSEN**  
*Architectural Group*  
 1415 East Wayzata Blvd., Ste. 200  
 Wayzata, MN 55391  
 Tel: 952/473-1985  
 Fax: 952/473-1340  
 E-mail: info@mohagenhansen.com  
 www.mohagenhansen.com  
 Established 1989

—  
 Other MN Office:  
 St. Paul- 651/221-2405

Todd E. Mohagen AIA  
 Mark L. Hansen AIA  
 Lyn A. Berglund ASID, CID

—  
 Firm Personnel by Discipline  
 Architects 9  
 Interior Designers 5  
 Technical 6  
 Administrative 3  
 Total in Firm 22

—  
 Work %  
 Housing/Multiple 5  
 Office Bldgs/Banks/Financial 40  
 Retail/Commercial 5  
 Medical/Health Care 45  
 Education/Academic 5

—  
 Anchor Bank, Blaine, MN; Edina  
 Plastic Surgery, Edina, MN;  
 Hennepin County North Point  
 Health and Wellness Center,  
 Minneapolis, MN; Datakey  
 Corporate Office, Savage, MN;  
 Carlson Town Center Office  
 Plaza, Plymouth, MN; Allianz  
 Life Insurance of North  
 America Corporate Imaging,  
 Minneapolis, MN

■ **NELSON**  
**(formerly E Design)**  
 1422 West Lake Street, Ste. 300  
 Minneapolis, MN 55418  
 Tel: 612/822-1211  
 Fax: 612/822-1006  
 E-mail: demert@nelsononline.com  
 www.nelsononline.com  
 Established 1977

—  
 Other Offices: Philadelphia, PA  
 (headquarters) and 28 locations  
 including New York, Boston,  
 Charlotte, Dallas and St. Louis

—  
 Debora Emert CID  
 Claudia Reichert CID  
 Richard Sutton AIA, CID

—  
 Firm Personnel by Discipline  
 Architects 1  
 Interior Designers 12  
 Administrative 2  
 Total in Firm 15

Continued on next column

Work %  
 Housing/Multiple 2  
 Residences:  
 New/Remodel/Additions 5  
 Office Bldgs/Banks/Financial 68  
 Retail/Commercial 15  
 Medical/Health Care 5  
 Municipal 5

—  
 KFAN the Restaurant, Roseville,  
 MN; Hudson Health Campus,  
 Hudson, WI; Hennepin County  
 Brookdale Regional Center,  
 Brooklyn Center, MN; Health  
 Partners Corporation  
 Headquarters, Bloomington;  
 Community National Bank,  
 Lino Lakes, MN; St. Paul  
 Travelers, Chicago Service  
 Center, Chicago, IL

■ **PARKER DURRANT**  
 430 Oak Grove Street, Ste. 300  
 Minneapolis, MN 55403  
 Tel: 612/871-6864  
 Fax: 612/871-6868  
 E-mail: cdnelson@durrant.com  
 www.parkerdurrant.com  
 Established 1957

—  
 Other Offices: Chicago, IL; Denver,  
 CO; Des Moines and Dubuque,  
 IA; Madison and Milwaukee, WI;  
 Honolulu, HI; Phoenix and  
 Tucson, AZ; St. Louis, MO

—  
 Firm Personnel by Discipline  
 Architects 13  
 Interior Designers 5  
 Other Professional 30  
 Administrative 7  
 Total in Firm 55

—  
 Work %  
 Housing/Multiple 10  
 Retail/Commercial 20  
 Churches/Worship 5  
 Municipal 30  
 Education/Academic 10  
 Mixed-use Facilities 25

—  
 Dahlian Fortuneland Mixed Use,  
 Dahlian, China; Pusan Worl II  
 Tower, Pusan, South Korea; Chung  
 Pyung Museum Lighting, Chung  
 Pyung, South Korea; Winnebago  
 County Justic Center, Rockford, IL;  
 Smith Gendler Shiell Sheff Ford &  
 Maher, Minneapolis, MN

—  
 Firm Personnel by Discipline  
 Architects 4  
 Interior Designers 3  
 Engineers 2  
 Other Professional 1  
 Technical 7  
 Administrative 3  
 Total in Firm 20

Continued on next column

■ **PAULSEN ARCHITECTS**  
 209 S. Second St., Ste. 201  
 Mankato, MN 56001  
 Tel: 507/388-9811  
 Fax: 507/388-1751  
 E-mail: bpad@paulsen-arch.com  
 www.paulsen-arch.com  
 Established 1995

—  
 Bryan J. Paulsen AIA, CID  
 James L. Graham AIA  
 Mark J. Lawton PE  
 Staci L. Flemming ASID, CID

—  
 Firm Personnel by Discipline  
 Architects 4  
 Interior Designers 3  
 Engineers 2  
 Other Professional 1  
 Technical 7  
 Administrative 3  
 Total in Firm 20

—  
 Work %  
 Housing/Multiple 5  
 Office Bldgs/Banks/Financial 25  
 Retail/Commercial 10  
 Medical/Health Care 10  
 Churches/Worship 10  
 Municipal 20  
 Education/Academic 20

—  
 Minnesota State University  
 Centennial Student Union  
 Renovation, Mankato, MN;  
 Snell Motors Indoor Auto Center  
 Renovation, Mankato, MN; Pub  
 500, New, Mankato, MN; Midwest  
 Wireless Corporate Headquarters  
 Phase II, New, Mankato, MN; New  
 St. Peter Community Center,  
 St. Peter, MN; ISJ/Mayo Health  
 Systems New Family Practice  
 Clinic, Mankato, MN

■ **PERKINS & WILL**  
 84 Tenth Street South, Ste. 200  
 Minneapolis, MN 55403  
 Tel: 612/851-5000  
 Fax: 612/851-5001  
 www.perkinswill.com  
 Established 1935

—  
 Other Offices: Atlanta, GA;  
 Boston, MA; Charlotte, NC;  
 Chicago, IL; Dallas and Houston,  
 TX; Los Angeles, CA; Miami, FL;  
 Research Triangle Park, NC; New  
 York, NY; Seattle, WA; Shanghai  
 and Beijing, China; Calgary and  
 Vancouver, Canada

—  
 Charles D. Knight AIA  
 David H. Dimond AIA, CID  
 Jeffrey D. Ziebarth AIA  
 Lisa F. Pool CID  
 William D. Lyons CID, IIDA

Continued on next column

Firm Personnel by Discipline  
 Architects 255  
 Interior Designers 89  
 Other Professional 20  
 Technical 213  
 Administrative 132  
 Total in Firm 710

—  
 Work %  
 Office Bldgs/Banks/Financial 30  
 Retail/Commercial 10  
 Medical/Health Care 30  
 Municipal 10  
 Education/Academic 20

—  
 Firm Personnel by Discipline  
 Architects 4  
 Interior Designers 3  
 Engineers 2  
 Other Professional 1  
 Technical 7  
 Administrative 3  
 Total in Firm 20

■ **POPE ASSOCIATES INC.**  
 1255 Energy Park Drive  
 St. Paul, MN 55108  
 Tel: 651/642-9200  
 Fax: 651/642-1101  
 E-mail: pholmes@popearch.com  
 www.popearch.com  
 Established 1974

—  
 Jon R. Pope AIA  
 Paul A. Holmes Assoc. AIA  
 Daniel M. Klecker AIA  
 Steven R. Doughty AIA  
 Randal L. Peek AIA

—  
 Firm Personnel by Discipline  
 Architects 15  
 Interior Designers 6  
 Other Professional 7  
 Technical 15  
 Administrative 6  
 Total in firm 49

—  
 Work %  
 Housing/Multiple 20  
 Office Bldgs/Banks/Financial 20  
 Retail/Commercial 10  
 Manufacturing/Industrial 20  
 Medical/Health Care 15  
 Education/Academic 15

—  
 Polaris South Product  
 Development Center, Wyoming,  
 MN; Regions - Phalen Specialty  
 Clinic, St. Paul, MN; C.H.  
 Robinson Worldwide, Twin Cities  
 and Chicago, IL; Phalen Crossing,  
 Housing, St. Paul, MN; Mounds  
 Park Academy, Expansion and  
 Remodel, Maplewood, MN;  
 Gander Mountain, Mankato, MN

■ **RSP ARCHITECTS**  
 1220 Marshall Street N.E.  
 Minneapolis, MN 55413  
 Tel: 612/677-7100  
 Fax: 612/677-7499  
 E-mail:  
 mark.westman@rsparch.com  
 www.rsparch.com  
 Established 1978  
 Other Office: Phoenix, AZ

—  
 David C. Norback AIA  
 Mic Johnson AIA  
 Mary Deeg CID, IIDA

—  
 Firm Personnel by Discipline  
 Architects 96  
 Interior Designers 29  
 Technical 54  
 Administrative 40  
 Total in Firm 225

—  
 Work %  
 Housing/Multiple 10  
 Office Bldgs/Banks/Financial 45  
 Retail/Commercial 35  
 Manufacturing/Industrial 7  
 Education/Academic 3

—  
 Wells Fargo Home Mortgage,  
 New, West Office Building,  
 Minneapolis, MN; Tiger Sushi,  
 Mall of America, Bloomington,  
 MN; BNC Bank, Golden Valley,  
 MN; Mayo Collaborative  
 Services, Rochester, MN; United  
 Health Group, National Design  
 Program; Comerica National  
 Design Program

■ **SLL/LEO A. DALY**  
 730 2nd Avenue South, Ste. 1100  
 Minneapolis, MN 55402  
 Tel: 612/338-8741  
 Fax: 612/338-4840  
 E-mail: kerogness@leodaly.com  
 www.leoadaly.com  
 Established 1915

—  
 Other Offices: Atlanta, GA; Miami,  
 FL; Washington, D.C.; Omaha, NE;  
 Las Vegas, NV; Phoenix, AZ; Los  
 Angeles, CA; Honolulu, HI; Hong  
 Kong, China; Dallas, Houston,  
 San Antonio, Fort Worth, Waco  
 and San Marcos, TX

—  
 Kurt Rogness AIA  
 Bob Egge AIA  
 Charles Ault PE

—  
 Firm Personnel by Discipline  
 Architects 438  
 Interior Designers 80  
 Engineers 227  
 Other Professional 82  
 Technical 57  
 Administrative 177  
 Total in Firm 1061

Continued on next column

Housing/Multiple 10  
 Office Bldgs/Banks/Financial 39  
 Retail/Commercial 5  
 Manufacturing/Industrial 5  
 Medical/Health Care 10  
 Churches/Worship 5  
 Municipal 10  
 Education/Academic 8  
 Aviation 8

—  
 Martin Luther College Chapel,  
 New Ulm, MN; Ellsworth Air Force  
 Base, 37th B1B Squadron  
 Operations Center, Ellsworth Air  
 Force Base, SD; Minnehaha  
 Academy – North Campus,  
 Minneapolis, MN; Graco Riverside  
 Assembly and Office, Minneapolis,  
 MN; Search Institute, Minneapolis,  
 MN; Memorial Medical Center –  
 VA Hospital, Tomah, WI

■ **SMITHGROUP, INC.**  
 527 Marquette Avenue, Ste. 500  
 Minneapolis, MN 55402-1309  
 Tel: 612/372-4681  
 Fax: 612/372-4957  
 E-mail: rebecca.nolan@smithgroup.com  
 www.smithgroup.com  
 Established 1853

—  
 Other Offices: Ann Arbor, MI;  
 Chicago, IL; Detroit, MI; Los An-  
 geles, CA; Madison, WI; Phoenix,  
 AZ; San Francisco, CA; Washing-  
 ton, D.C.

—  
 David R.H. King FAIA  
 Carl Roehling FAIA  
 Rebecca Nolan Assoc. AIA  
 Michael Nolan AIA  
 Andrew Vazzano FAIR  
 Jens Mammen RA

—  
 Firm Personnel by Discipline  
 Architects 175  
 Interior Designers 27  
 Engineers 82  
 Other Professional 157  
 Technical 118  
 Administrative 143  
 Total in Firm 702

—  
 Work %  
 Office Bldgs/Banks/Financial 30  
 Medical/Health Care 25  
 Education/Academic 20  
 Research/Bio-sciences 15  
 Airport/Aviation 5  
 Museum/Mixed Use 5

Continued on next column

Jefferies & Company, Interior Ar-  
 chitecture, New York, NY; Parsons  
 Brinkerhoff, Inc., Interior Architec-  
 ture, Chicago, IL; Tampa, FL;  
 Newark, NJ; Rush Presbyterian  
 Medical Center, New, Chicago, IL;  
 Equity Office3 Properties Trust, In-  
 terior Architecture, San Francisco,  
 CA; Chiron, New, Interior Archi-  
 tecture, Emeryville, CA; McNama-  
 ra Terminal, Northwest World  
 Gateway, New, Detroit, MI

■ **STATION 19 ARCHITECTS, INC.**

2001 University Avenue SE  
 Ste. 100  
 Minneapolis, MN 55414  
 Tel: 612/623-1800  
 Fax: 612/623-0012  
 E-mail: station19@station19.com  
 www.station19.com  
 Established 1979  
 Other Office: Wausau, WI

—  
 Richard Brownlee AIA, CID  
 Nicole LeBarron Thompson AIA  
 Audrey Hollatz CID

—  
 Firm Personnel by Discipline  
 Architects 5  
 Interior Designers 3  
 Technical 7  
 Administrative 3  
 Total in Firm 18

—  
 Work %  
 Retail/Commercial 10  
 Churches/Worship 70  
 Municipal 10  
 Education/Academic 10

—  
 Bethel Lutheran Church, Addition  
 and Remodel, Rochester, MN;  
 First Lutheran, New Facility, Lake  
 City, MN; 3<sup>rd</sup> at the New Union,  
 Remodel, Minneapolis, MN;  
 Sheridan Lutheran, New Facility,  
 Lincoln, NE; The Optical at 50th  
 and France, Remodel, Edina, MN;  
 Hosanna!, New Facility - Phase III,  
 Lakeville, MN

■ **STUDIO HIVE, inc.**

1101 West River Parkway, Ste. 100  
 Minneapolis, MN 55415  
 Tel: 612/279-0430  
 Fax: 612/279-0410  
 E-mail: jlinster@studiohive.com  
 Established 2003

—  
 Janice Carleen Linster ASID, CID  
 Shawn Parrish Gaither AIA  
 Shari Bjork

—  
 Firm Personnel by Discipline  
 Architects 1  
 Interior Designers 2  
 Other Professional 1  
 Total in Firm 4

Continued on next column

Work %  
 Housing/Multiple 5  
 Office Bldgs/Banks/Financial 70  
 Retail/Commercial 5  
 Education/Academic 20

—  
 Marquette Capital Partners, New,  
 Minneapolis, MN; University of  
 Minnesota Coffman Memorial  
 Union Remodel, Minneapolis,  
 MN; G & K Services, Inc.  
 Remodel, Minnetonka, MN;  
 Western National Insurance  
 Remodel, Edina, MN; Lawson  
 Software Remodel and New  
 Construction, St. Paul, MN and  
 Atlanta, GA

■ **20 BELOW STUDIO**

11 Fourth Street N.E., Ste. 201  
 Minneapolis, MN 55413  
 Tel: 612/378-2021  
 Fax: 612/378-2024  
 E-mail:

studio@20belowstudio.com  
 www.20belowstudio.com  
 Established 2002

—  
 Joseph M. Hamilton AIA, CID  
 Kevin Rolfes Assoc. AIA  
 Heather Rose-Dunning IIDA

—  
 Firm Personnel by Discipline  
 Architects 2  
 Interior Designers 4  
 Total in Firm 6

—  
 Work %  
 Residences: New/Remodel/  
 Additions 5  
 Office Bldgs/Banks/Financial 50  
 Retail/Commercial 40  
 Other 5

—  
 The Oceanaire Seafood Room,  
 New, San Diego, CA; Atlanta, GA;  
 Miami, FL; Rider Bennett, New,  
 Minneapolis, MN; TSI, Inc., New,  
 Shoreview, MN; Figlio, Remodel,  
 Minneapolis, MN; Brookfield/33  
 S. 6th Street Common Spaces  
 Remodel, Minneapolis, MN;  
 Merchant & Gould, New,  
 Denver, CO



The firms listed in this directory include interior designers who are members of the American Society of Interior Designers (ASID) and the International Interior Designers Association (IIDA), or who have the designation of Certified Interior Designer (CID). They offer a broad range of interior design, space planning and furnishings selection experience. Each firm has specific areas of expertise and project competence. Contact them to discuss your specific project needs.

**Legend**

- AIA** Registered and a Member of the American Institute of Architects
- Assoc. AIA** Associate Member of the American Institute of Architects
- ASID** American Society of Interior Designers
- CID** Certified Interior Designer
- FAIA** Fellow and Registered Member of the American Institute of Architects
- FASID** Fellow, American Society of Interior Designers
- FIIDA** Fellow, International Interior Designers Association
- IFMA** International Facilities Management Association

● **ARCHITECTURAL ALLIANCE**  
 400 Clifton Avenue South  
 Minneapolis, MN 55403-3299  
 Tel: 612/871-5703  
 Fax: 612/871-7212  
 E-mail: vknutsen@archalliance.com  
 www.archalliance.com  
 Established 1970

Thomas DeAngelo	AIA, CID
Dennis LaFrance	AIA, CID
Peter Vesterholt	AIA, CID
Sharry Cooper	IIDA, CID
Cindy Ellsworth	
Eric Peterson	AIA

—  
 Firm Personnel by Discipline

Interior Designers	7
Architects	28
Other Professional Technical	31
Administrative	5
Total in Firm	78

—  
 Work %

Office Bldgs/Banks/Financial	20
Retail/Commercial	15
Medical/Health Care	5
Municipal	20
Education/Academic	15
Aviation	25

—  
 Anchorage International Airport, New Terminal and Concourse Expansion, Anchorage, AK;  
 University of Minnesota New Microbial and Plant Genomics Building, St. Paul, MN; Blue Cross Blue Shield of Minnesota Yankee Place Office Building/Warehouse Remodeling, Eagan, MN;  
 New Guthrie on the River, Minneapolis, MN; New Minneapolis Central Library, Minneapolis, MN; Caribou Coffee Stores, 300 locations in MN, IL, WI, OH, MI, NC, GA, VA, MD and DC

● **ARMSTRONG, TORSETH, SKOLD & RYDEEN, INC. (ATS&R)**  
 8501 Golden Valley Road, Ste. 300  
 Minneapolis, MN 55427  
 Tel: 763/545-3731  
 Fax: 763/525-3289  
 E-mail: information@atsr.com  
 www.atsr.com  
 Established 1944

Paul Erickson	AIA
Daniel Moll	AIA, CID
Elena Peltsman	AIA, CID
Ken Grabow	AIA
Paul Snyder	AIA, CID

Continued on next column

Firm Personnel by Discipline

Interior Designers	3
Architects	38
Engineers	32
Other Professionals	20
Administrative	14
Total in Firm	107

—  
 Work %

Churches/Worship	5
Education/Academic	95

—  
 Park Rapids Area Century Community K-8 School, New, Park Rapids, MN; Minnesota Business Academy, Remodel, St. Paul, MN; Northrop Education Center, Remodel, Rochester, MN; Osseo Area Schools District-wide Improvements, Osseo, MN; Andover High School, New, Andover, MN; Sunrise River Elementary School, New, North Branch, MN

● **BWBR ARCHITECTS, INC.**  
 380 St. Peter Street, Ste. 600  
 Saint Paul, MN 55102-1996  
 Tel: 651/222-3701  
 Fax: 651/222-8961  
 E-mail: marketing@bwbr.com  
 www.bwbr.com  
 Established 1922

C. Jay Sleiter	AIA
Terry L. Anderson	AIA
Stephen P. Patrick	AIA
Timothy J. Sessions	AIA
Peter G. Smith	AIA
Brian B. Buchholz	AIA
John A. Strachota	AIA

—  
 Firm Personnel by Discipline

Interior Designers	14
Architects	66
Other Professional Technical	13
Administrative	4
Total in Firm	115

—  
 Work %

Office Bldgs/Banks/Financial	5
Medical/Health Care	50
Churches/Worship	10
Municipal	10
Education/Academic	10
Correction/Detention/Justice	10
Transportation (Transit, Aviation, Parking)	5

Continued on next column

Mayo Family Clinic Northeast, Rochester, MN; Minnehaha County Jail, Sioux Falls, SD; Shoreview Community Center Expansion, Shoreview, MN; RSM McGladrey Corporate Office Relocation, Bloomington, MN; Wheaton Community Hospital Expansion, Wheaton, MN; Shepherd of the Lake Lutheran Church at Shepherd's Path, Prior Lake, MN

● **CUNINGHAM GROUP ARCHITECTURE, P.A.**  
 201 Main Street SE, Ste. 325  
 Minneapolis, MN 55414  
 Tel: 612/379-3400  
 Fax: 612/379-4400  
 Email: bgates@cuningham.com  
 www.cuningham.com  
 Established 1968  
 Other Office: Los Angeles, CA

John W. Cunningham	FAIA
John E. Hamilton	AIA
Thomas L. Hoskens	AIA
Timothy Dufault	AIA
David M. Solner	AIA
Brian Tempas	AIA

—  
 Firm Personnel by Discipline

Interior Designers	6
Architects	77
Other Professional Technical	7
Administrative	19
Total in Firm	33

—  
 Work %

Housing/Multiple	20
Office Bldgs/Banks/Financial	5
Retail/Commercial	15
Churches/Worship	5
Education/Academic	25
Interior Architecture	5
Planning/Master, Urban, Land	5
Entertainment/Hospitality	25

—  
 Epic Systems Corporation New Headquarters, Madison, WI; Arts IMPACT New Middle School, Columbus, OH; 710 Lofts, New, Minneapolis, MN; Haihe Beach Park, New, Tanggu, China; Warner Bros. MovieWorld™ New Theme Park, Madrid, Spain; Mohawk Mountain Casino Resort, New, Monticello, NY

●  
**DSGW**  
 2 West First Street, Ste. 201  
 Duluth, MN 55802  
 Tel: 218/727-2626  
 Fax: 218/722-7467  
 E-mail: architects@dsgw.com  
 www.dsgw.com  
 Established 1938

—  
 Other MN Offices;  
 Grand Rapids – 218/326-1819  
 Virginia – 218/741-7962  
 Twin Cities – 651/784-7924

—  
 John Gerzina AIA  
 Rebecca Lewis AIA, CID  
 John F. Scott  
 Randy Wagner AIA

—  
 Firm Personnel by Discipline  
 Interior Designers 2  
 Architects 11  
 Other Professional 1  
 Technical 21  
 Administrative 5  
 Total in Firm 40

—  
 Work %  
 Housing/Multiple 5  
 Residences/New & Remodel 5  
 Office Bldgs/Banks/Financial 10  
 Retail/Commercial 10  
 Manufacturing/Industrial 5  
 Medical/Health Care 25  
 Municipal 10  
 Education/Academic 30

—  
 Northern Lights Hotel and  
 Conference Center, New, Walker,  
 MN; Grand Rapids Middle School,  
 New, Grand Rapids, MN;  
 St. Luke's Pavillion I & II, New,  
 Duluth, MN; Blue Cross/Blue  
 Shield, New, Virginia and Aurora,  
 MN; Grant Thorton Offices,  
 Remodel, Minneapolis, MN

●  
**ELLERBE BECKET, INC.**  
 800 LaSalle Avenue  
 Minneapolis, MN 55402  
 Tel: 612/376-2000  
 Fax: 612/376-2271  
 E-mail: info@ellerbebecket.com  
 www.ellerbebecket.com  
 Established 1909

—  
 Other Offices: Dubai, U.A.E.;  
 Kansas City, MO; San Francisco,  
 CA; Washington, D.C.

—  
 Fred Richter AIA  
 Christy Devens NCIDQ  
 Wendy Fimon CID  
 Karen Kjos CID  
 Ken LeDoux AIA, CID  
 Jim Lewison CID

*Continued on next column*

Firm Personnel by Discipline  
 Interior Designers 40  
 Architects 148  
 Engineers 88  
 Other Professional 15  
 Technical 15  
 Administrative 40  
 Total in Firm 346

—  
 Work %  
 Office Bldgs/Banks/Financial 25  
 Retail/Commercial 5  
 Medical/Health Care 40  
 Education/Academic 10  
 Sports/Recreation/Athletic 20

—  
 University of Nevada - Las Vegas  
 Student Union, New  
 Construction, Las Vegas, NV;  
 Target Corporation, Multifoods  
 Tower Cafeteria Renovation,  
 Minneapolis, MN; Park Nicollet  
 Health Services, New Heart and  
 Vascular Center, St. Louis Park,  
 MN; Federal Reserve Bank of  
 Kansas City, New, Kansas City,  
 MO; City Public Service –  
 Primary Control Center, New,  
 San Antonio, TX; Samsung  
 Medical Center, New Expansion  
 Project and New Construction,  
 Seoul, Korea

●  
**ELNESS SWENSON GRAHAM  
 ARCHITECTS**  
 500 Washington Avenue South  
 Minneapolis, MN 55415  
 Tel: 612/339-5508  
 Fax: 612/339-5382  
 E-mail: telne@esgarc.com  
 www.esgarch.com  
 Established 1973

—  
 Mark Ostrom CID  
 Mark Swenson AIA  
 David Graham AIA

Firm Personnel by Discipline  
 Interior Designers 2  
 Architects 26  
 Other Professional 4  
 Technical 39  
 Administrative 7  
 Total in Firm 78

—  
 Work %  
 Housing/Multiple 40  
 Office Bldgs/Banks/Financial 20  
 Retail/Commercial 10  
 Manufacturing/Industrial 5  
 Municipal 5  
 Hotels/Resorts 20

—  
 Wells Fargo, Tenant Improvement,  
 Various Locations; Imation  
 Enterprise, Woodbury, MN;  
 Excelsior and Grand, Mixed Use,  
 St. Louis Park, MN; 301 Kenwood,  
 Minneapolis, MN; Gustavus  
 Adolphus, New Residence Hall,  
 St. Peter, MN; Grand Casino Hotel,  
 Hinckley, MN

●  
**FOSS ASSOCIATES**  
 P.O. Box 306  
 Moorhead, MN 56561  
 Tel: 218/236-1202  
 Fax: 218/236-4945  
 www.fossassociates.com  
 Established 1898

—  
 Other MN Office:  
 Breckenridge 218/641-4300  
 Other Office: Fargo, ND

—  
 Rick Hoganson AIA, CID  
 Joel Davy AIA  
 Robert Ames AIA

—  
 Firm Personnel by Discipline  
 Interior Designers 2  
 Architects 5  
 Other Professional 2  
 Technical 2  
 Administrative 5  
 Total in Firm 16

—  
 Work %  
 Housing/Multiple 5  
 Office Bldgs/Banks/Financial 10  
 Retail/Commercial 5  
 Medical/Health Care 30  
 Churches/Worship 5  
 Municipal 5  
 Education/Academic 40

—  
 Douglas County Hospital Surgery  
 Center, Alexandria, MN;  
 Ulteig Engineers Corporate  
 Headquarters, Fargo, ND;  
 St. Cloud Veterans Affairs Medical  
 Center Mental Health Clinic,  
 St. Cloud, MN; Great Plains  
 Regional Office Building of Ducks  
 Unlimited, Inc., Bismarck, ND;  
 Waubun Ogema School, Waubun  
 & Ogema, MN; Minnesota  
 Veterans Home, Fergus Falls, MN

●  
**g2 group**  
 5402 Williston Road  
 Minnetonka, MN 55345  
 Tel: 612/889-9797  
 Tel: 612/396-5637  
 E-mail: sharongmn@hotmail.com  
 Established 2003

—  
 Gerry Ewald CID  
 Sharon Gibbons CID

—  
 Firm Personnel by Discipline  
 Interior Designers 2

—  
 Work %  
 Residences/New & Remodel. 5  
 Office Bldgs/Banks/Financial 75  
 Retail/Commercial 10  
 Medical/Health Care 5  
 Municipal 5

*Continued on next column*

Ecolab Waters Campus, Interior  
 Finishes, Eagan, MN; LifeSource,  
 Move Management Services,  
 St. Paul, MN; ADP, Interior  
 Remodeling, Bloomington, MN;  
 Willis, Leasehold Expansion,  
 Golden Valley, MN; Carlson,  
 Caspers, Vandenburgh &  
 Lindquist, Leasehold Expansion,  
 Minneapolis, MN; Gila River  
 Indian Community Tribal  
 Governance Center, Interior  
 Finishes for New Construction,  
 Sacaton, AZ

●  
**HAMMEL, GREEN AND  
 ABRAHAMSON, INC.**  
 701 Washington Avenue North  
 Minneapolis, MN 55401  
 Tel: 612/758-4000  
 Fax: 612/758-4199  
 E-mail: info@hga.com  
 www.hga.com  
 Established 1953

—  
 Other MN Office:  
 Rochester – 507/281-8600

—  
 Other Offices:  
 Milwaukee, WI; Sacramento, San  
 Francisco and Los Angeles, CA

—  
 John Crosby CID  
 AnnMarie Wittig CID  
 Joe Mayhew AIA, CID  
 Laurie Rother ASID, CID  
 Chris Vickery CID  
 Nancy Schmidt CID

—  
 Firm Personnel by Discipline  
 Interior Designers 26  
 Architects 218  
 Engineers 99  
 Other Professional 31  
 Technical 44  
 Administrative 66  
 Total in Firm 484

—  
 Work %  
 Office Bldgs/Banks/Financial 25  
 Manufacturing/Industrial 5  
 Medical/Health Care 45  
 Churches/Worship 5  
 Municipal 5  
 Education/Academic 10  
 Museums/Theaters/  
 Restaurants 20

—  
 Zelle Hofmann Voelbel Mason &  
 Gette, Minneapolis, MN;  
 Fhima's Restaurant, St. Paul, MN;  
 Fulbright & Jaworski,  
 Minneapolis, MN; General Mills,  
 Golden Valley, MN; Martin  
 Williams, Minneapolis, MN;  
 Retek, Inc., Minneapolis, MN

● **DAVID HEIDE DESIGN STUDIO LLC.**  
301 Fourth Avenue South, Ste. 663  
Minneapolis, MN 55415  
Tel: 612/337-5060  
Fax: 612/337-5059  
E-mail: info@dhdstudio.com  
www.dhdstudio.com  
Established 1997

Other MN Office:  
Wolverton - 218/995-2878  
—  
David Heide Assoc. AIA,  
Allied ASID  
Mark E. Nelson AIA  
Dan Teske

Firm Personnel by Discipline  
Interior Designers 2  
Architects 1  
Other Professional 4  
Administrative 1  
Total in Firm 8

Work %  
Residences: New/Remodel/  
Additions 90  
Office Bldgs/Banks/Financial 10  
Historic Restoration/  
Preservation 70

—  
Pelican Lake Cottage, New and  
Interiors, Pelican Rapids, MN;  
Crocus Hill Tudor Residence,  
Remodel and Interiors, St. Paul,  
MN; Historic Milwaukee Avenue  
Residence, Remodel, Addition  
and Interiors, Minneapolis, MN;  
Merriam Park Residence,  
Remode, Addition and Interiors,  
St. Paul, MN; Harwood Groves  
Residence, New, Fargo, ND;  
Mississippi riverfront  
condominium, Remodel and  
Interiors, Minneapolis, MN

● **HORTY ELVING**  
505 East Grant Street  
Minneapolis, MN 55404  
Tel: 612/332-4422  
Fax: 612/344-1282  
E-mail: moorer@hortyelving.com  
www.hortyelving.com  
Established 1955

—  
Thomas Horty FAIA, FACHA  
Barbara Kassanchuk  
James C. Elving PE  
Leo Monster Assoc. AIA  
Rick Moore AIA, ACHA  
Dan Williamson

Firm Personnel by Discipline  
Interior Designers 3  
Architects 11  
Engineers 4  
Other Professional 6  
Technical 3  
Administrative 4  
Total in Firm 31

Continued on next column

Paid Advertising

Work %  
Medical/Health Care 85  
Senior Housing 15  
—  
St. Francis Medical Center,  
New and Remodel, Breckenridge,  
MN; Perham Memorial Hospital  
and Home, New and Renovation,  
Perham, MN; St. John's Lutheran  
Home, Renovation, Albert Lea,  
MN; Mackinac Straights Hospital,  
New and Renovation, St. Ignace,  
MI; Brewster Village, New,  
Appleton, WI; Regina Medical  
Center, New and Renovation,  
Hastings, MN

● **HTG ARCHITECTS**  
9300 Hennepin Town Road  
Minneapolis, MN 55347  
Tel: 952/278-8880  
Fax: 952/278-8880  
E-mail:  
jgrover@htg-architects.com  
www.htg-architects.com  
Established 1959

Other Office: Scottsdale, AZ  
—  
James R. Grover AIA  
Jeffrey J. Pflipsen AIA

Firm Personnel by Discipline  
Architects 8  
Other Professional 4  
Technical 5  
Administrative 4  
Total in Firm 21

Work %  
Office Bldgs/Banks/Financial 85  
Retail/Commercial 5  
Municipal 10

—  
Voyager Bank, Eden Prairie, MN;  
Citizens Bank Minnesota,  
Lakeville, MN; Minnesota  
Building Trades; Franklin Bank,  
Minneapolis, MN; Cambridge  
State Bank, Cambridge, MN;  
First National Financial Services  
Building, Elk River, MN

● **JACKSON STREET WORKSHOP**  
653 Jackson Street NE  
Minneapolis, MN 55413  
Tel: 612/669-0873  
Fax: 612/623-3215  
E-mail: info@jacksonstreet.net  
Established 2001

—  
Ann M. Packer IIDA  
—  
Firm Personnel by Discipline  
Interior Designers 1  
Other Professional 2  
Total in Firm 3

Work %  
Residences/New & Remodel 30  
Office Bldgs/Banks/Financial 40  
Municipal 30

Continued on next column

Otter Tail County Government  
Services Center, New, Fergus Falls,  
MN; Smith Residence, Remodel,  
Minneapolis, MN; Heffernan  
Residence, Remodel, St. Paul, MN

● **KKE ARCHITECTS, INC.**  
300 First Avenue North  
Minneapolis, MN 55401  
Tel: 612/339-4200  
Fax: 612/342-9267  
www.kke.com  
Established 1968

Other Offices: Newport Beach and  
Pasadena, CA

Ronald C. Erickson AIA  
Thomas E. Gerster AIA  
Gregory G. Hollenkamp AIA  
Mohammed Lawal AIA  
Quintin J. Scott AIA  
Sara Rothholz Weiner Assoc. AIA

Firm Personnel by Discipline  
Interior Designers 9  
Architects 75  
Engineers 1  
Other Professional 30  
Administrative 25  
Total in Firm 140

Work %  
Housing/Multiple 10  
Office Bldgs/Banks/Financial 20  
Retail/Commercial 20  
Medical/Health Care 5  
Municipal 10  
Education/Academic 10  
Hospitality/Entertainment 15  
Senior Living 10

—  
Lowr Sioux Community Center,  
New, Morton, MN; Briggs and  
Morgan, P.A., New and Remodel,  
IDS Center, Downtown  
Minneapolis, MN; Café and Bar  
Lurcat, Remodel, Loring Park in  
Minneapolis and in Naples, FL;  
Crossroads Center Food Court,  
Expansion and New, St. Cloud,  
MN; Summer Community Library,  
Historic Preservation and  
Renovation and Addition,  
Minneapolis, MN; Providence  
Academy, Plymouth, New, MN

● **KRECH, O'BRIEN, MUELLER & WASS**  
6115 Cahill Avenue  
Inver Grove Heights, MN 55076  
Tel: 651/451-4605  
Fax: 651/451-0917  
E-mail: dobrien@komw.com  
www.komw.com  
Established 1985

—  
Daniel O'Brien AIA, CID  
Brady Mueller AIA, CID  
Cindy Nagel CID  
Mike Lisowski PE  
Jim Krech PE

Continued on next column

Firm Personnel by Discipline  
Interior Designers 2  
Architects 7  
Engineers 3  
Technical 2  
Administrative 2  
Total in Firm 17

Work %  
Office Bldgs/Banks/Financial 45  
Retail/Commercial 10  
Manufacturing/Industrial 25  
Medical/Health Care 10  
Municipal 10

—  
Possis Medical Corporate Office,  
Coon Rapids, MN; The Dentists  
at Uptown Row, Minneapolis,  
MN; Neuger Communications  
Corporate Office, Northfield,  
MN; Starkey Laboratories New  
Facility, Eden Prairie, Cenex  
Harvest States Corporate Office  
Remodel, Inver Grove Heights,  
MN; Great Clips Corporate Office  
Addition, Edina, MN

● **LHB, INC.**  
250 Third Avenue North, Ste. 450  
Minneapolis, MN 55401  
Tel: 612/338-2029  
Fax: 612/338-2088  
www.lhbcorp.com

Other MN Office:  
Duluth - 218/727-8446

Rick Carter AIA, CID  
Rachelle Schoessler Lynn CID,  
ASID  
Sue Anderson IIDA, CID  
Dave Bjerkness AIA  
Jill Isola Johnson CID, ASID  
K.C. Lim AIA, CID

Firm Personnel by Discipline  
Interior Designers 7  
Architects 23  
Engineers 33  
Other Professional 10  
Technical 39  
Administrative 28  
Total in Firm 140

Work %  
Housing/Multiple 20  
Residences/New & Remodel 10  
Office Bldgs/Banks/Financial 10  
Retail/Commercial 10  
Manufacturing/Industrial 10  
Medical/Health Care 10  
Municipal 20  
Education/Academic 10

—  
Warners' Stellian Edina Store  
Renovation, Edina, MN;  
Behavioral Management Office  
Remodel, Edina, MN; Weber  
Deegan Office Remodel, Edina,  
MN; North Woods Credit Union  
Remodel, Duluth, MN; St. Mary's  
Medical Center Executive Offices  
Remodel, Duluth, MN; LHB  
Office Remodel, Duluth and  
Minneapolis, MN

● **MEYER, SCHERER & ROCKCASTLE, LTD. (MS&R)**  
 710 South 2nd Street, 7th Floor  
 Minneapolis, MN 55401  
 Tel: 612/375-0336  
 Fax: 612/342-2216  
 E-mail: info@msrltd.com  
 www.msrltd.com  
 Established 1981

Thomas Meyer AIA  
 Jeffrey Scherer FAIA  
 Garth Rockcastle FAIA  
 Lynn Barnhouse CID  
 Jack Poling AIA  
 Barry Petit

Firm Personnel by Discipline  
 Interior Designers 8  
 Architects 25  
 Other Professional 1  
 Technical 3  
 Administrative 11  
 Total in Firm 48

—  
 Housing/Multiple 25  
 Residence/New & Remodel 5  
 Office Bldgs/Banks/Financial 10  
 Education/Academic 20  
 Libraries/Museums 40

801 Washington Lofts, Adaptive Re-use, Minneapolis, MN; Private Residence and Guest House, Orono, MN; Pre-Paid Legal Services Corporate Headquarters, Ada, OK; University of Minnesota Regis Center for Art, Minneapolis, MN; Fayetteville Public Library, Fayetteville, AR; Saint Paul Central Library, Renovation, Saint Paul, MN

● **NELSON (formerly E Design)**  
 1422 West Lake Street Ste. 300  
 Minneapolis, MN 55418  
 Tel: 612/822-1211  
 Fax: 612/822-1006  
 E-mail: demert@nelsononline.com  
 www.nelsononline.com  
 Established 1977

Other Locations: Philadelphia (headquarters) and 28 locations including New York, Boston, Charlotte, Dallas and St. Louis

—  
 Debora Emert CID  
 Claudia Reichert CID  
 Richard Sutton AIA, CID

Firm Personnel by Discipline  
 Interior Designers 12  
 Architects 1  
 Administrative 2  
 Total in Firm 15

Work %  
 Housing/Multiple 2  
 Residences/New & Remodel 5  
 Office Bldgs/Banks/Financial 68  
 Retail/Commercial 15  
 Medical/Health Care 5  
 Municipal 5

—  
 KFAN the Restaurant, Roseville, MN; Hudson Health Campus, Hudson, WI; Hennepin County Brookdale Regional Center, Brooklyn Center, MN; Health Partners Corporate Headquarters, Bloomington, MN; Community National Bank, Lino Lakes, MN; St. Paul Travelers, Chicago Service Center, Chicago, IL

● **PARKER DURRANT**  
 430 Oak Grove Street, Ste. 300  
 Minneapolis, MN 55403  
 Tel: 612/871-6864  
 Fax: 612/871-6868  
 E-mail: cdnelson@durrant.com  
 www.parkerdurrant.com  
 Established 1957

Work %  
 Housing/Multiple 25  
 Residence/New & Remodel 5  
 Office Bldgs/Banks/Financial 10  
 Education/Academic 20  
 Libraries/Museums 40

—  
 Other Offices: Chicago, IL; Denver, CO; Des Moines and Dubuque, IA; Madison and Milwaukee, WI; Honolulu, HI; Phoenix and Tucson, AZ; St. Louis, MO

Steve Huh FAIA, CID  
 Gary Mahaffey FAIA, CID  
 Francis Bulbulian AIA  
 Colleen Nelson CID  
 Ira Keer AIA, CID  
 Karl Ermanis AIA

—  
 Firm Personnel by Discipline  
 Interior Designers 5  
 Architects 13  
 Other Professional 30  
 Administrative 7  
 Total in Firm 55

Work %  
 Housing/Multiple 10  
 Retail/Commercial 20  
 Churches/Worship 5  
 Municipal 30  
 Education/Academic 10  
 Mixed-use Facilities 25

—  
 Dahlian Fortuneland Mixed Use, Dahlian, China; Pusan World II Tower, Pusan, South Korea; Chung Pyung Museum Lighting, Chung Pyung, South Korea; Winnebago County Justice Center, Rockford, IL; Smith Gendler Shiell Sheff Ford & Maher, Minneapolis, MN

—  
 Firm Personnel by Discipline  
 Interior Designers 5  
 Architects 13  
 Other Professional 30  
 Administrative 7  
 Total in Firm 55

● **PAULSEN ARCHITECTS**  
 209 S. Second Street, Ste. 201  
 Mankato, MN 56001  
 Tel: 507/388-9811  
 Fax: 507/388-1751  
 E-mail: bpad@paulsen-arch.com  
 www.paulsen-arch.com  
 Established 1995

Bryan J. Paulsen AIA, CID  
 James L. Graham AIA  
 Mark J. Lawton PE  
 Staci Flemming ASID, CID

Firm Personnel by Discipline  
 Interior Designers 3  
 Architects 4  
 Engineers 2  
 Other Professional 1  
 Technical 7  
 Administrative 3  
 Total in Firm 20

Work %  
 Housing/Multiple 5  
 Office Bldgs/Banks/Financial 25  
 Retail/Commercial 10  
 Medical/Health Care 10  
 Churches/Worship 10  
 Municipal 20  
 Education/Academic 20

—  
 Minnesota State University Centennial Student Union Renovation Mankato, MN; Snell Motors Indoor Auto Center Renovation, Mankato, MN; Pub 500, New, Mankato, MN; Midwest Wireless Corporate Headquarters Phase II, New, Mankato, MN; St. Peter Community Center, New, St. Peter, MN; ISJ/Mayo Health Systems New Family Practice Clinic, Mankato, MN

● **PERKINS & WILL**  
 84 Tenth Street South, Ste. 200  
 Minneapolis, MN 55403  
 Tel: 612/851-5000  
 Fax: 612/851-5001  
 www.perkinswill.com  
 Established 1935

Other Offices: Atlanta, GA; Boston, MA; Charlotte, NC; Chicago, IL; Dallas and Houston, TX; Los Angeles, CA; Miami, FL; Research Triangle Park, NC; New York, NY; Seattle, WA; Shanghai and Beijing, China; Calgary and Vancouver, CA

Charles D. Knight AIA  
 David H. Dimond AIA, CID  
 Jeffrey D. Ziebarth AIA  
 Lisa F. Pool CID  
 William D. Lyons CID, IIDA

Continued on next column

Firm Personnel by Discipline  
 Interior Designers 89  
 Architects 255  
 Other Professional 20  
 Technical 213  
 Administrative 132  
 Total in firm 710

Work %  
 Office Bldgs/Banks/Financial 30  
 Retail/Commercial 10  
 Medical/Health Care 30  
 Municipal 10  
 Education/Academic 20

—  
 Abbott Northwestern Center for Outpatient Care, New, Edina, MN; Capella University Headquarters, Interior Renovation, Minneapolis, MN; TRIA Orthopedic Center, New, Bloomington, MN; Winthrop & Weinstine Law Offices, Interior Renovation, Minneapolis, MN; Sony Retail Prototype Store, New, Shanghai, China; Medica Corporate Headquarters, New, Minnetonka, MN

● **RSP ARCHITECTS**  
 1220 Marshall Street N.E.  
 Minneapolis, MN 55413  
 Tel: 612/677-7100  
 Fax: 612/677-7499  
 E-mail: mark.westman@rsparch.com  
 www.rsparch.com  
 Established 1978  
 Other Office: Phoenix, AZ

David C. Norback AIA  
 Mic Johnson AIA  
 Mary Deeg CID, IIDA

Firm Personnel by Discipline  
 Interior Designers 29  
 Architects 96  
 Other Technical 54  
 Administrative 40  
 Total in Firm 225

Work %  
 Housing/Multiple 10  
 Office Bldgs/Banks/Financial 45  
 Retail/Commercial 25  
 Manufacturing/Industrial 7  
 Education/Academic 3

—  
 Wells Fargo Home Mortgage, New, West Office Building, Minneapolis, MN; Tiger Sushi, Mall of America, Bloomington, MN; BNC Bank, Golden Valley, MN; Mayo Collaborative Services, Rochester, MN; United Health Group, National Design Program; Comerica National Design Program

● **SL/LEO A. DALY**

730 2nd Avenue South, Ste. 1100  
 Minneapolis, MN 55402  
 Tel: 612/338-8741  
 Fax: 612/338-4840  
 E-mail: kerogness@leoadaly.com  
 www.leoadaly.com  
 Established 1915

Other Offices: Atlanta, GA; Miami, FL; Washington, DC; Omaha, NE; Las Vegas, NV; Phoenix, AZ; Los Angeles, CA; Honolulu, HI; Hong Kong, China; Dallas, Houston, San Antonio, Fort Worth, San Antonio, Waco and San Marcos, TX

Kurt Rogness	AIA
Robert E. Egge	AIA
Charles Ault	PE
Firm Personnel by Discipline	
Interior Designers	80
Architects	438
Engineers	227
Other Professional	82
Technical	57
Administrative	177
Total in Firm	1061

	Work %
Housing/Multiple	10
Office Bldgs/Banks/Financial	39
Retail/Commercial	5
Manufacturing/Industrial	5
Medical/Health Care	10
Churches/Worship	5
Municipal	10
Education/Academic	8
Aviation	8

Martin Luther College Chapel, New Ulm, MN; Ellsworth Air Force Base - 37th B1B Squadron Operations Center, Ellsworth AFB, SD; Minnehaha Academy North Campus, Minneapolis, MN; Graco Riverside Assembly and Office, Minneapolis, MN; Search Institute, Minneapolis, MN; Memorial Medical Center - VA Hospital, Tomah, WI

● **SMITHGROUP, INC.**

527 Marquette Avenue, Ste. 500  
 Minneapolis, MN 55402-1309  
 Tel: 612/372-4681  
 Fax: 612/372-4957  
 E-mail: rebecca.nolan@smithgroup.com  
 www.smithgroup.com  
 Established 1853

Other Offices: Ann Arbor, MI; Chicago, IL; Detroit, MI; Los Angeles, CA; Madison, WI; Phoenix, AZ; San Francisco, CA; Washington, D.C.

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David R.H. King	FAIA
Carl Roehling	FAIA
Rebecca Nolan	Assoc. AIA
Michael Nolan	AIA
Andrew Vazzano	FAIR
Jens Mammen	RA
Firm Personnel by Discipline	
Architects	175
Interior Designers	27
Engineers	82
Other Professional	157
Technical	118
Administrative	143
Total in Firm	702

	Work %
Office Bldgs/Banks/Financial	30
Medical/Health Care	25
Education/Academic	20
Research/Bio-sciences	15
Airport/Aviation	5
Museum/Mixed Use	5
Jefferies & Company, Interior Architecture, New York, NY; Parsons Brinkerhoff, Inc., Interior Architecture, Chicago, IL; Tampa, FL; Newark, NJ; Rush Presbyterian Medical Center, New, Chicago, IL; Equity Office3 Properties Trust, Interior Architecture, San Francisco, CA; Chiron, New, Interior Architecture, Emeryville, CA; McNamara Terminal, Northwest World Gateway, New, Detroit, MI	

● **STATION NINETEEN ARCHITECTS, INC.**

2001 University Avenue SE Ste. 100  
 Minneapolis, MN 55414  
 Tel: 612/623-1800  
 Fax: 612/623-0012  
 E-mail: station19@station19.com  
 www.station19.com  
 Established 1979  
 Other Office: Wausau, WI

Richard Brownlee	AIA, CID
Nicole LeBarron Thompson	AIA
Audrey Hollatz	CID
Firm Personnel by Discipline	
Interior Designers	3
Architects	5
Technical	7
Administrative	3
Total in Firm	18

	Work %
Retail/Commercial	10
Churches/Worship	70
Municipal	10
Education/Academic	10

Continued on next column

Bethel Lutheran Church, Addition and Remodel, Rochester, MN; First Lutheran, New Facility, Lake City, MN; 3<sup>rd</sup> at the New Union, Remodel, Minneapolis, MN; Sheridan Lutheran, New, Lincoln, Nebraska, The Optical at 50th and France, Remodel, Edina, MN; Hosanna!, New Facility - Phase III, Lakeville, MN

● **STUDIO HIVE, inc.**

1101 West River Parkway, Ste. 100  
 Minneapolis, MN 55415  
 Tel: 612/279-0430  
 Fax: 612/279-0410  
 E-mail: jlinster@studiohive.com  
 Established 2003

Janice Carleen Linster ASID, CID  
 Shawn Parrish Gaither AIA  
 Shari Bjork

Firm Personnel by Discipline	
Interior Designers	2
Architects	1
Other Professional	1
Total in Firm	4

	Work %
Housing/Multiple	5
Office Bldgs/Banks/Financial	70
Retail/Commercial	5
Education/Academic	20

Marquette Capital Partners, New, Minneapolis, MN; University of Minnesota Coffman Memorial Union Remodel, Minneapolis, MN; G & K Services, Inc. Remodel, Minnetonka, MN; Western National Insurance Remodel, Edina, MN; Lawson Software Remodel/New Construction, St. Paul, MN and Atlanta, GA

● **20 BELOW STUDIO**

11 Fourth Street NE, Ste. 201  
 Minneapolis, MN 55413  
 Tel: 612/378-2021  
 Fax: 612/378-2024  
 E-mail: studio@20belowstudio.com  
 www.20belowstudio.com  
 Established 2002

Joseph M. Hamilton AIA, CID  
 Kevin Rolfes Assoc. AIA  
 Heather Rose-Dunning IIDA

Firm Personnel by Discipline	
Interior Designers	4
Architects	2
Total in Firm	6

Continued on next column

	Work %
Residences/New & Remodel	5
Office Bldgs/Banks/Financial	50
Retail/Commercial	40
Other	5

The Oceanaire Seafood Room, New, San Diego, Atlanta & Miami; Rider Bennett, New, Minneapolis, MN; TSI, Inc., New, Shoreview, MN; Figlio, Remodel, Minneapolis, MN; Brookfield/33 S. 6th Street Common Spaces, Remodel, Minneapolis, MN; Merchant & Gould, New, Denver, CO

● **WALSH BISHOP ASSOCIATES, INC.**

900 Second Avenue South Ste. 300  
 Minneapolis, MN 55402  
 Tel: 612/338-8799  
 Fax: 612/337-5785  
 www.walshbishop.com  
 Established 1984

Dennis Walsh	AIA
David Loehr	AIA, AICP
Kim Williamson	CID, CFM, ASID, IIDA

Firm Personnel by Discipline	
Interior Designers	10
Architects	15
Other Professional	3
Technical	13
Administrative	4
Total in Firm	45

	Work %
Housing/Multiple	20
Office Bldgs/Banks/Financial	30
Retail/Commercial	10
Manufacturing/Industrial	10
Municipal	5
Education/Academic	5
Hospitality	20

RBC Dain Rauscher Inc., Various Locations; Time Warner, Tenant Build-out, Edina, MN; Barr Engineering, Tenant Improvement, Bloomington, MN; Eschelon, Telecom, Inc., Tenant Improvement, Minneapolis, MN; Schwan Food Company, Various Locations; Lakepoint Condominiums

**Bet Shalom Synagogue**

Location: Minnetonka, MN  
 Client: Bet Shalom Congregation  
 Architect: Bentz/Thompson/Rietow, Inc.  
 Principal-in-charge:  
 Gary F. Milne Rojek, AIA  
 Project manager: Gary F. Milne Rojek, AIA, Randy Moe, AIA  
 Project architects: Randy Moe, AIA, John Bergford, AIA  
 Project lead designer:  
 Milo Thompson, FAIA  
 Structural-engineering team: Tom Downs and Chris Plessel, BKBM  
 Mechanical-engineering team:  
 Jim Keller and Susan Hennig, Gausman & Moore  
 Electrical-engineering team:  
 Lane Hersey, Gausman & Moore  
 Civil-engineering team:  
 Joel Maier, BKBM  
 Lighting designer: Michael DiBlasi and Lauri Tredennick, Schuler & Shook  
 Code consultant: Ryan Bierwerth, MountainStar  
 Interior design: Bentz/Thompson/Rietow, Inc.  
 Owner's representative: Herb Margolis, The Seneca Group  
 Contractor: Kraus-Anderson; project manager: Larry Raasch; superintendent: Lynn Mann  
 Landscape architect: Dahlgren Shardlow Uban  
 Landscape project team: John Uban  
 Cabinetwork: Shaw Lumber  
 Flooring systems: Stained concrete, Stellar Concrete  
 Window systems: Minneapolis Glass  
 Architectural metal panels/roofing:  
 Innovative Building Concepts  
 Concrete work: Stellar Concrete and Masonry

Millwork: Millcraft  
 Electrical contractor: Collins  
 Mechanical contractor: Harris  
 Faux wall systems: Apropos Studios  
 Stainless-steel ark: Millerbernd Fabrications  
 Painting: Rainbow Painting  
 Gypsum systems: Olympic Drywall  
 Photographer: Philip Prowse

**Municipal Building Rotunda Restoration**

Location: Minneapolis, MN  
 Client: Municipal Building Commission  
 Architect: MacDonald & Mack Architects, Ltd.  
 Principal-in-charge: Robert Mack, FAIA  
 Project architects: Royce Wiens, Assoc. AIA  
 Structural-engineering team:  
 Dave Macdonald, Mattson-Macdonald Engineering  
 Lighting designer: Schuler & Shook  
 Stone cleaning & repair: MacPherson-Towne Co.  
 Stained-glass restoration: Bovard Studios  
 Stained-glass consultant: Michael Pilla, Monarch Studios  
 General contractor: Gladstone Construction  
 Photographer: Jerry Mathiason

**Gerlach/Perrone Kitchen Remodel**

Location: St. Paul, MN  
 Client: Phil Gerlach & Cathy Perrone  
 Architect: McMonigal Architects, LLC  
 Principal-in-charge: Rosemary McMonigal, AIA  
 Structural-engineering team:  
 Krech, O'Brien, Mueller & Wass  
 Lighting & interior design: McMonigal Architects, LLC  
 General contractor: J & D Builders, Inc.  
 Stone countertops & entry flooring:  
 Cold Spring Granite  
 Cabinetwork: Charles Cabinets Company, Inc.

Window systems: Pella  
 Cabinet hardware & lighting:  
 Rejuvenation Lamp & Fixture Company  
 Millwork: Shaw/Stewart Lumber  
 Photographer: Karen Melvin

**Kitchen Renovation and Addition**

Location: Deephaven, MN  
 Client: Withheld  
 Architect: Randall M. Buffie Architect, Inc.  
 Principal-in-charge: Randall Buffie, AIA  
 Project manager: Randall Buffie, AIA  
 Project architect: Randall Buffie, AIA  
 Structural engineer: ArchiStructures, Inc.  
 Lighting designer: Carol Chaffee Associates  
 Interior design: Randall Buffie, AIA  
 Builder: Streeter & Associates  
 Cabinetwork: Braaten Creative Woods Stone: Capital Granite  
 Flooring/materials: Schaeffer Hardwood Floors, #1 Maple  
 Windows: Pella (windows and solarium)  
 Architectural stainless: Custom Stainless  
 Art glass: GlassArt Design, Inc.  
 Photographer: Karen Melvin

**Barrie/Wong Kitchen Addition**

Location: Edina, MN  
 Client: Bob Barrie and Kris Wong  
 Architect: Tim Quigley, AIA  
 Principal-in-charge: Tim Quigley, AIA  
 Project architects: John Clarey  
 Contractor: Bruce Bren  
 Cabinetwork: Peter Allen  
 Window systems: Pella  
 Concrete work: Larry Barrett  
 Photographer: Andrea Rugg