

AM

JANUARY/FEBRUARY 1994 \$3.50
62364

architecture minnesota



Matthew Libberts
5300 Fremont Ave S
Minneapolis, MN 55419



WALLCOVERING • FABRIC • PAINT



PRATT & LAMBERT PAINTS, EXCLUSIVE CALIBRATED
COLORS IV FEATURED AT FRED G. ANDERSON,
WHERE THE EXPERT ADVICE IS AS GOOD AS OUR PAINTS!



FRED G. ANDERSON, INC.

CORPORATE HEADQUARTERS

5825 EXCELSIOR BLVD. • MINNEAPOLIS, MN 55416
MINNESOTA 612-927-1812 NATIONAL 1-800-365-2222 FAX 612-927-1851

REGIONAL OFFICES AND SHOWROOMS

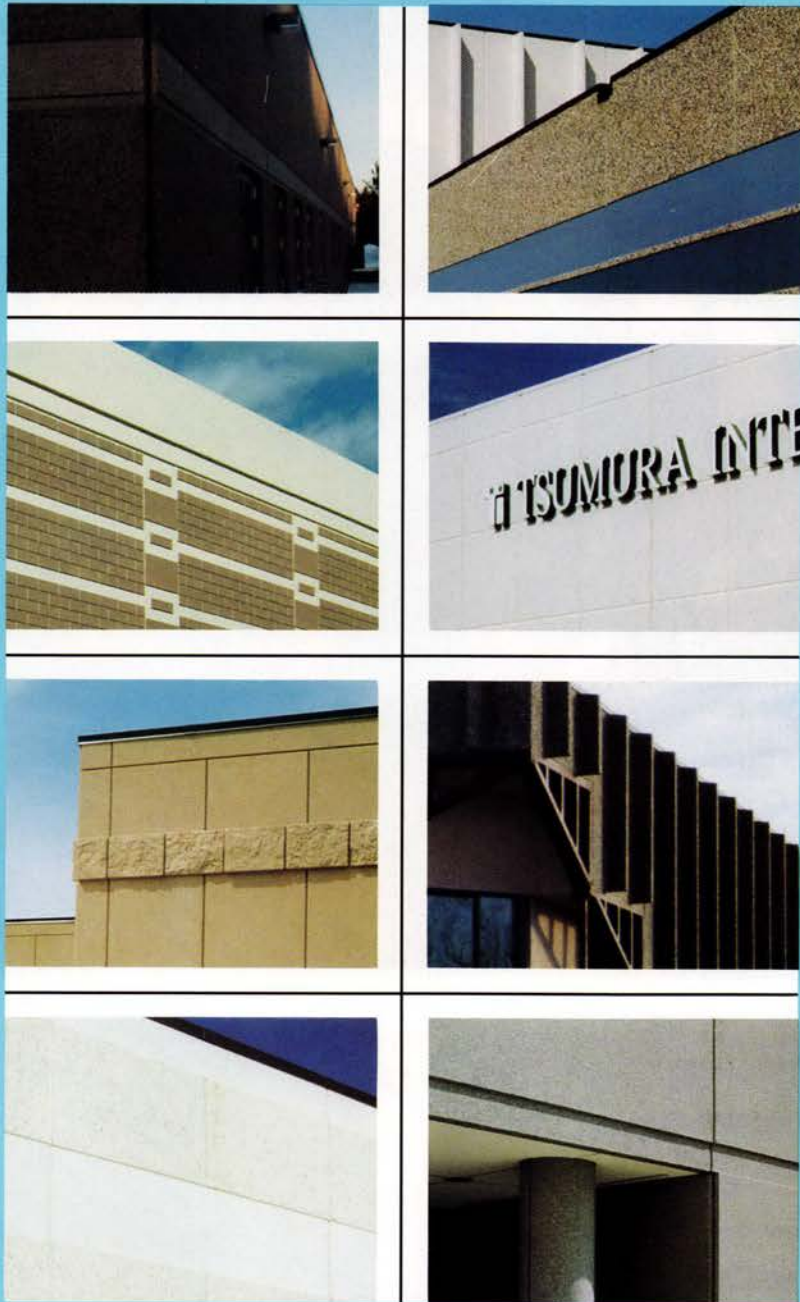
CHICAGO • MILWAUKEE • DALLAS • INDIANAPOLIS • KANSAS CITY • ST. LOUIS

One IDEAS CAST IN CONCRETE

Your ideas can take on any shape, color, or finish with **WELLS CONCRETE PRODUCTS COMPANY**. We know the importance of a building's exterior appearance. From a sandblasted finish to the look of inlaid stone, **WELLS** can meet your expectations for versatility, quality, and dependability. We know color is equally important to you. **WELLS** can use aggregates, concrete dyes, and white cement to create any color you require.

WELLS is also your one source supplier for total concrete buildings. You can have the beauty of architectural concrete wall panels plus the advantages of a precast concrete roof system, all designed, manufactured, and installed by **WELLS**.

For all your precast concrete needs, call **WELLS** today. Our versatility in precast and prestressed concrete can bring your ideas to reality.



P.O. Box 308 • Wells, MN 56097 • 1-800-658-7049



Fallon McElligott • Spiral Staircase



**Principle Fixture
and Millwork, Inc.**

P.O. Box 567
5175 260th Street
Wyoming, MN 55092
Tel. 612•462•8931
Fax 612•462•8978

**AT&T Tower
Minneapolis, Minnesota**

Spiral Staircase, Wall Paneling, Reception Desk,
Conference Tables

Materials: Cherry Solids and Veneer, Lacewood Veneer

Designers: Walsh Bishop Associates, Inc. and
Wheeler Hildebrandt Associates, Inc.

Photography: Koyama Photography

VOL. 20 NO. 1

THE MAGAZINE OF AIA MINNESOTA

JANUARY/FEBRUARY 1994



20. Gehry's artistic hand



28. Music on the river

- 5 Sketches
- 13 Previews
- 15 Up close: University art-museum director Lyndel King, by David Anger
- 19 Editorial: Twigs and things

20 Postcard perfect: Frederick R. Weisman Art Museum, by Robert Gerloff

26 Ice house: Mariucci Arena, by Eric Kudalis

28 Mississippi River concerto: Ted Mann Concert Hall, by David Anger

32 Geometric abstractions: A photo essay by Don F. Wong

34 Visible design: RSP Architects eyes the future with a higher profile, by Eric Kudalis

40 Minnesota travelogue: Rochester, by Bette Hammel

- 45 Directory of consulting engineering firms
- 57 Advertising index
- 57 Credits
- 58 Lost Minnesota



34. RSP eyes the future



40. Rochester on the move

Cover:

The Frederick R. Weisman Art Museum at the University of Minnesota.

Architect: Frank O. Gehry
Associates, Santa Monica, Calif.

Executive architect: Meyer,
Scherer & Rockcastle, Ltd.,
Minneapolis.

Photographer: Don F. Wong.

Architecture Minnesota is published

bimonthly by AIA Minnesota. The opinions expressed herein are not necessarily those of the Board of Directors or the editorial staff of *Architecture Minnesota*. Editorial offices: International Market Square, 275 Market Street, Suite 54, Minneapolis, MN 55405. (612) 338-6763. FAX: (612) 338-7981. Note to subscribers: When changing address, please send address label from recent issue and your new address. Allow six weeks for change of address. Subscription rate: \$18 for one year, \$3.50 for single issue. Postmaster: Send address change to *Architecture Minnesota*, International Market Square, 275 Market Street, Suite 54, Minneapolis, MN 55405. Second-class postage paid at Minneapolis, MN, and additional mailing offices. Advertising and Circulation: *Architecture Minnesota*, International Market Square, 275 Market Street, Suite 54, Minneapolis, MN 55405. (612) 338-6763. Printed by St. Croix Press, Inc. Color separations by Colorbrite. Copyright 1994 by *Architecture Minnesota* (ISSN 0149-9106).

Editor

Eric Kudalis

Contributing Editors

Bill Beyer, Steven Buetow, Jack El-Hai, Robert Gerloff, Camille LeFevre, Bruce N. Wright

Correspondents

John Albers, Heather Beal, Bette Hammel, Janet Johnson, Harold Skjelbostad, Sara Stafford, Janet Whitmore

Graphic Design

Rubin Cordaro Design

Photographer

Don F. Wong

Advertising Sales

Judith Van Dyne, Director

Circulation Distribution

Sarah J. Leslie

Publisher

Peter Rand, FAIA



Frederick R. Weisman Art Museum
Design: Frank O. Gehry Associates
Executive Architects: Meyer, Scherer & Rockcastle

Mechanical & Electrical Design








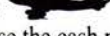
ERICKSEN ELLISON
and Associates, Inc.

1455 ENERGY PARK DR ■ ST. PAUL
612-641-0311

- Data & Voice Communications
- Specialty Lighting

C O N S U L T I N G E N G I N E E R S

You can't

drive to work,  walk the dog, cook that pot roast, bake that bread, shower after jogging, watch 60 Minutes, toast the toast, brew the coffee, mow  the lawn, call your mother, be cool in the summer, wash your sweat suit,  dine out, play computer games,  medicate your cold, build your new house, listen to "old blue eyes", ride your  bike, videotape that wedding, vacuum the rug, recycle your garbage, play baseball at night, be warm in the winter, fly to Hawaii,  check the time, flush the toilet, buy a fresh tomato in winter, fill that cavity, use the cash machine

without an engineer.

For a free copy of the Consulting Engineers directory contact:
Consulting Engineers Council of Minnesota
5407 Excelsior Blvd., Suite A
Minneapolis, MN 55416
(612) 922-9696



AIA Minnesota A Society of the American Institute of Architects

Board of Directors

Alexander Ritter, AIA, President
Thomas C. Van Housen, FAIA, President-Elect
Robert DeBruin, AIA, Secretary
Ronald Stanius, AIA, Treasurer
C. Jay Sleiter, AIA, Immediate Past President
William Beyer, AIA, President,
Minneapolis Chapter
Harold Kiewel, AIA, President,
St. Paul Chapter
Russ Betts, AIA, President
Northern Minnesota Chapter
Gail Andersen, AIA, Director
William Armstrong, AIA, Director
Steve Edwins, AIA, Director
Richard Engan, AIA, Director
John Klockeman, AIA, Director
Eldon Morrison, AIA, Director
Steven McNeill, AIA, Director
Christine Zagaria, AIA, Director
Harrison Fraker, FAIA, Director
Roxanne Nelson Link,

Associate Representative

Ray Dehn, Student Representative
Duane Kell, AIA, Regional Director
James Miller, AIA, Regional Director
Beverly Hauschild, Hon. AIA,
Executive Vice President
Peter Rand, FAIA, Executive Vice President

AIA Minnesota Publications Committee

Janet Whitmore, Chair
John Albers, AIA
Tim Alt, AIA
Heather Beal
George Cundy, AIA
Janet Johnson
Andrea Stephenson Komschlies
Carolyn Krall, AIA
Harold Skjelhostad
Sara Stafford
Jeffrey L. Walz

Editorial Advisory Board

Edward J. Kodet, AIA
Michael Plautz, AIA
Kenneth Potts, AIA

Minnesota Architectural Foundation

James O'Brien, AIA, President
David Runyan, AIA, Vice President
Craig Rafferty, FAIA, Secretary
Robert Rietow, AIA, Treasurer
John Gaunt, AIA
Larry Millett
Leonard S. Parker, FAIA
Ralph Rapson, FAIA
Julie Snow, AIA

AIA Minnesota Staff

Beverly Hauschild, Hon. AIA, Executive
Vice President
Peter Rand, FAIA, Executive Vice President
Deanna Christiansen, Program Director
Doug F. Kooren, Financial Manager
Eric Kudalis, Editor
Sarah J. Leslie, Information Systems Director
Judith Van Dyne, Director of Marketing

AIA Minnesota
International Market Square
275 Market Street, Suite 54
Minneapolis, MN 55405
(612) 338-6763
Fax: (612) 338-7981

Twenty-five years and going strong

In this throwaway culture, buildings are torn down almost as soon as they are put up. Sometimes they are razed because they have outlived their usefulness. Other times they are demolished because a developer wants to build something bigger and grander in its place. In Europe, buildings are used for hundreds of years. In America, 25 years is considered noteworthy. To honor buildings that have stood the test of time—at least as measured by 25 years—AIA Minnesota sponsors the annual 25-Year Award.

This year's winner is Christ Chapel, designed by Setter, Leach & Lindstrom of Minneapolis for Gustavus Adolphus College in St. Peter, Minn. Since the chapel was completed in 1962, the college has nearly doubled to 2,200 students. The chapel has remained a vital part of campus growth. The jurors—comprising Dennis Gimmesstad of the State Historic Preservation Office, James Stageberg of The Stageberg Partners, and F. John Barbour of Barbour Ladouceur Architects—were impressed with the vitality of the design.

"The original design was a strong, flamboyant statement that took a risk," they said. "The chapel could have gone the other way [over the years], but instead it has aged very well—spiritually, structurally and functionally."

When built, the chapel was unique to southern Minnesota. Made of white precast concrete with stained glass separating each "fold-



Christ Chapel, designed by Setter, Leach & Lindstrom in the early 1960s, remains a focus of the Gustavus Adolphus campus in St. Peter, Minn. Like Marcel Breuer's chapel at St. John's University in Collegeville, Minn., Christ Chapel demonstrates the expressive potential of precast concrete.

ed" panel, the building is modern in its materials yet evokes a Gothic flavor. At night, the chapel is a beacon to the community with its lit tower and illuminated stained-glass windows. The church serves many functions, from religious services, daily chapel and vespers, to baccalaureates, convocations, concerts and seasonal events. The chapel seats up to 1,300, but also is designed for more intimate settings of 50.

Christ Chapel is a prime example of precast concrete's aesthetic potentials. The chapel is warm and inspiring. Thirty years is only the beginning. Christ Chapel will continue to inspire and serve its community for decades to come.



Courtesy Setter, Leach & Lindstrom



St. Croix Press



It's hard to find the right words to describe how we're different from anyone else in the printing industry. Our best testimonials are the many magazines & catalogs we produce for hundreds of publishers all over the United States.

We offer a wide range of services from elec-

tronic prepress to mailing—all under one roof.

If your business or organization currently produces a quality, multi-color, short- or medium-run magazine or catalog, St. Croix Press will provide you with personal attention, state-of-the-art technology, and conscientious on-time service.

Let Us Help You Produce Quality Print Communications!

St. Croix Press, Inc.

New Richmond, Wisconsin

Telephone: 715-246-5811 or 800-826-6622

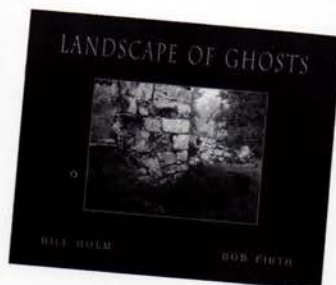
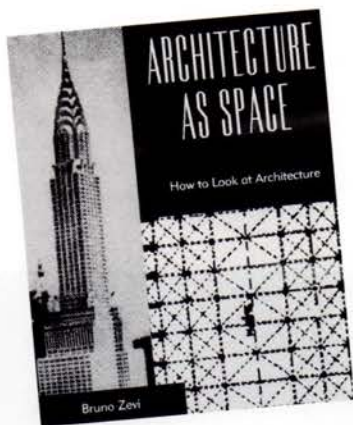
Fax: 715-243-7555

Contact Dean O. Lindquist, Sales Manager

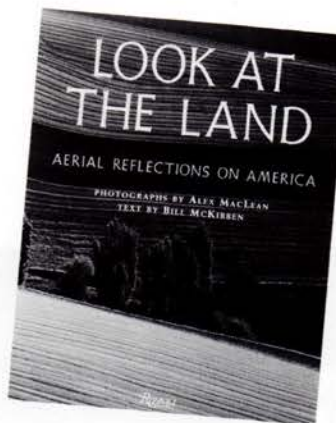
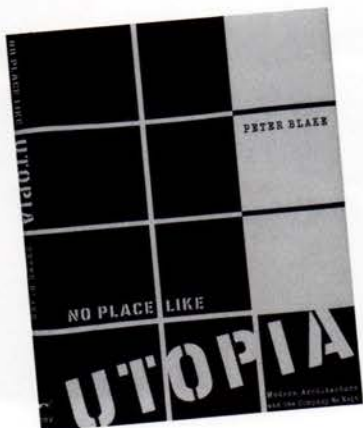
AM

sketches

In the classic *Architecture As Space: How to Look at Architecture*, first published in 1948, author Bruno Zevi explores the evolving properties of space and its relation to architecture. Architecture is more than the floors, roof, interior and exterior walls that form a building, Zevi says. The author contends that architecture's essence lies in the void enclosed by those structural elements: A building is a hollowed sculpture that we discern by moving about within. Generously illustrated with photographs of such structures as the Parthenon to Frank Lloyd Wright's Falling Water, *Architecture As Space* examines space as it developed through the ages and looks at its vital role in architectural history. Zevi studies architecture's relation to beauty to see whether good and bad architecture can be based on a purely aesthetic criteria. Zevi's other books include *Toward an Organic Architecture* and *The Modern Language of Architecture*. He is currently editor of *L'Architettura-Cronache e Storia* in Rome. *Architecture As Space* is reissued by Da Capo Press, New York.



Author Peter Blake has lived through more than 50 years of contemporary architecture. As both an architectural practitioner and critic and writer, Blake counts among his friends and acquaintances some of the most important figures of the architecture and art world. In *No Place Like Utopia*, Blake shares his memories of the great innovators of this world. Filled with lively anecdotes, the book reacquaints us with such figures as Frank Lloyd Wright (whom Blake calls the perfect "Artist as Ham"); Buckminster Fuller; Mies van der Rohe; and Philip Johnson, among others. *No Place Like Utopia* looks at modern architecture's role in society. Modernism was born between the world wars with a mission to cure society's ills. In the 1960s, says Blake, modernism slipped into elitism, feeding the egos of rich corporations. Only now, the author contends, is modernism returning to its roots. Blake served as editor-in-chief of *Architectural Forum* from 1964-1972. He then headed the magazine's successor *Architecture Plus* until 1975. Blake has written widely for other magazines and has lectured at museums and universities. His other books include *The Master Builders*, *God's Own Junkyard* and *Form Follows Fiasco*. *No Place Like Utopia* is published by Alfred A. Knopf, New York.



Landscape of Ghosts, written by Minnesota essayist Bill Holm and photographed by Bob Firth, captures the effects of time on rural America. In this 144-page, four-color book, 11 essays and 166 photographs highlight America's abandoned artifacts, from such icons as barns and farm machinery to cars and trucks, as well as country churches, roadside advertising, windmills and rock piles. Says Holm, "I think Bob [Firth] and I are both interested in saving history from the American disease: living in the eternal present." Holm is a native of Minnesota whose published works include *Boxelder Bug Variations* (1985), *The Music of Failure* (1985), and *Coming Home Crazy: An Alphabet of China Essays* (1990). Firth's photographs are widely seen on calendars, postcards and magazines. He is best known for his nature photography. *Landscape of Ghosts* is published by Voyageur Press in Stillwater, Minn.

In *Look at the Land: Aerial Reflections on America*, photographer and aviator Alex MacLean captures images of our landscape that can only be seen from above. In this large-format, four-color book, we see the interconnections and patterns of the built and natural environment. Our geography is in a constant state of flux, and *Look at the Land* is a textured quilt of the ever-changing land. MacLean is particularly sensitive to environmental issues and the proper—and improper—use of land. From above, we see land used for housing, farming, recreation, transportation and energy generation. Shopping malls and tract-house developments, the San Andreas fault and ball-playing fields all come into focus through MacLean's lense. We also see the land exploited through deforestation, pollution and natural-resources excavation. Accompanying the photographs—which MacLean shot with one hand on the camera and the other on the plane's control gears—are six essays by noted environmental writer Bill McKibben. McKibben has written for the *New Yorker*, *Natural History*, *Outside*, the *New York Times* and *Rolling Stone*. His most recent book is *The Age of Missing Information*. MacLean founded the Boston-based aerial-photography firm Landslides in 1975. In addition to his commercial work, MacLean's fine-art photography has been widely exhibited and published. *Look at the Land* is published by Rizzoli, New York.



SKYLIGHTS

Kalcurve™ by Kalwall®



Joel & Shin Koyama

Woodbury Village Shopping Center
KKE Architects
Ryan Construction Company
Robert C. Muir Company, Developer

Custom windows and skylights for over 45 years.
Distributed and installed by

W.L. Hall Co.

14800 Martin Drive
Eden Prairie, MN 55344
(612) 937-8400

Professional retrospective:

A retiring architect discusses 39 years of practice



Fritz Rohkohl, president and principal of BWBR Architects for the past 15 years, is retiring after 39 years of architectural practice. He joined BWBR in 1954 (known then as Bergsted and Hirsch) and was named a principal in 1968. The firm cites Rohkohl's dedication to client service and quality control as factors in its growth and ability to retain long-term clients. Architecture Minnesota recently asked Rohkohl to reflect on his experiences and changes in the architectural profession.

What are some of the changes you've witnessed in the practice of architecture? What drove these changes? Is change good for the profession?

When I entered the profession, architects normally sat back and waited for clients to call. In those days many contracts nearly consisted of gentlemen's handshakes. Then clients grew more knowledgeable about building design and function, and detailed requests for proposals (RFPs) became commonplace. More architects entered the field, firms multiplied and competition grew in intensity. As a result, architectural firms had to change their business approach by devising new strategies and marketing techniques to gain commissions.

Marketing today has become incredibly sophisticated. It's a function of competition—which is good for the profession—and has created new standards of client service and challenged architects to become more innovative in their business practices.

Litigation and regulation have also changed architecture. Highly detailed documentation and specification are now required because quality assurance is a major concern. Many firms have staff who do nothing but check the accuracy of documents. Specialization is also growing in response to government regulations. Federal, state and local governments, special-interest groups and regulatory agencies have complicated the building process, making it more difficult for clients to achieve their goals. This is an area where architects have had to play an enlarged role. Our role today on the building team includes counsel—we assist

the client in carrying projects from inception through completion.

Despite the complications, the profession and practice of architecture are better than 40 years ago. We are more responsive to clients' needs, while building technology and quality have improved significantly.

Architecture is really about people—to dream, to design, to build, to occupy, to enjoy. What do you see as the key to successful owner, architect, contractor and user teaming?

Our most successful projects have included the owner and the entire design and construction team. Clients have also included user groups in the planning process so we can gain their input and expertise early on, thereby eliminating many problems before they occur. This "teaming" approach with the client has been a major improvement in the design process. Preselection of contractors has also advanced the planning process. With contractor input design is improved, savings are achieved and construction problems are avoided. It's a professional approach that ultimately benefits the client and the project.

You spearheaded computerization at BWBR. Are you satisfied that CADD has revolutionized the practice? How has it affected total quality management?

BWBR didn't implement CADD for CADD's sake, rather our decision was driven by the needs of our clients. We have now evolved to the point where 85 percent of our firm's work is accomplished with

Continued on page 52

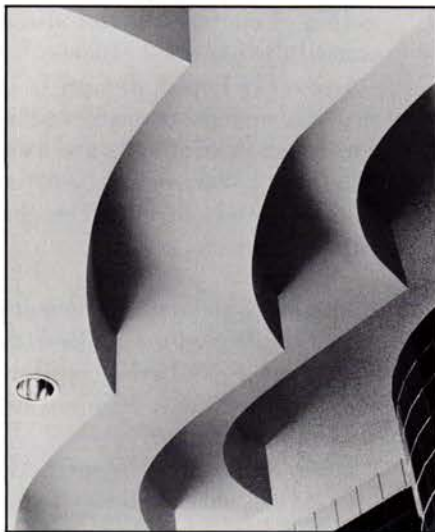
The Minneapolis law firm of
LEONARD, STREET AND DEINARD
takes pride in congratulating

GARY E. WHEELER,
Principal of Wheeler Hildebrandt & Associates, Inc.,

on his recent election as

PRESIDENT
of the
AMERICAN SOCIETY OF INTERIOR DESIGN
(ASID)

DRYWALL



- Beauty
- Economy
- Versatility
- Speed

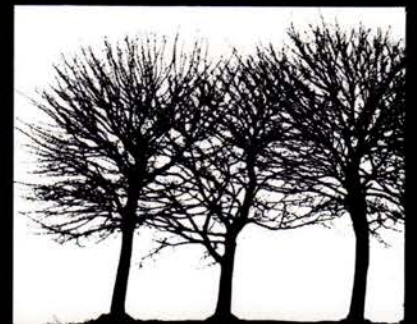
Project: Embassy Suites
Architect: Bentz Thompson
& Rietow
Owner: United States
Development Corporation



Minnesota
Drywall Council
(612) 546-5416

Damon Farber Associates

Landscape Architects



3 3 2 - 7 5 2 2

coming soon

McMonigal Architects Residence Red Wing, MN

Sited atop a bluff over Lake Pepin, this new farmhouse commands dramatic views of the lake, distant valleys and sloping pastures. A rooftop observation deck offers its owner an unobstructed vista for star gazing. (612) 331-1244.



McMonigal Architects Addition and Remodeling Deephaven, MN

The transformation of this former "suburban ranch" involves reorienting the front entry, converting the tuck-under garage into a new family area and creating a new exterior image. A bridge passing through the two-story covered entryway connects a second level screened porch over the new detached garage. 612/331-1244.



McMonigal Architects Residence Lake Owasso Roseville, MN

A small cottage was originally built on this site by the Owner's grandfather. The new house responds to the lake views, mature trees and sun patterns that first drew their family to the site. (612) 331-1244.



Promote your firm! Advertise in Coming Soon!

Call Judith Van Dyne
at (612) 338-6763
for rate information.

UNEQUALED SYSTEMS

Unique Carlisle Roofing Systems... People... Working For You

By specifying a unique Carlisle commercial/industrial single-ply roofing system, such as our Mechanically-Fastened System, you benefit two ways. First, you are the beneficiary of a first-class system, and secondly, you have Carlisle's unique team of design, research and quality control people working for you.

Carlisle's focused design staff produce user-friendly specifications and details and supply in-depth systems' information for you. One mission of Carlisle's talented research personnel is to make sure all products work in harmony within the system, making your job easier.

Pictured from left:
Alan Thornburgh,
*Manufacturing
Quality*

Sue Adams, *Design
and Review*

Bill Reisinger,
Installation Quality

Bill Schneider,
*Research and
Development*

Intelligent manufacturing people are dedicated to the production of higher quality membranes for all Carlisle systems. Installation quality of these same systems is verified for you and your clients after installation by our renowned technical representatives.

Specify one of Carlisle's Unequaled Systems with its unique back-up team of experts and participate in The Carlisle Difference.

Contact your local sales representatives for additional information or call, toll free - 800-233-0551; in PA 800-932-4626; in Canada 416-564-5557.



**ARCHITECTURAL
CONSULTANTS, INC.**
5500 Lincoln Drive, Suite 155, Edina, MN 55436
(612) 935-9800 FAX (612) 935-8502

Manufacturer's Representatives & Distributors

Carlisle is a trademark of
Carlisle Corporation
© Carlisle Corporation 1992

THERE *Really* IS NO EQUAL. **Carlisle SynTec Systems**
P.O. Box 7000 • Carlisle, PA 17013-0925

CARLISLE

Minnesota Celebrates Matisse
Minneapolis Institute of Arts
Dayton Hudson Gallery
Through Jan. 9

Paintings, bronzes, drawings, prints and illustrated books by Henri Matisse (1869-1954) are taken from the museum's permanent collection as well as from private collections. Highlighted pieces range from *Boy with a Butterfly Net*, to *Three Bathers*, *Collioure* and the *Jazz* stencils.

For more information, call the Institute at (612) 870-3000.

Medieval to Modern:
A Selection of Graphic Art
From the Permanent Collection
Minneapolis Institute of Arts
Jan. 23-April 3

Coinciding with the opening of the new Herschel V. Jones study room, this exhibit features the museum's collection of prints, drawings, watercolors, pastels and artists' books.

For more information, call (612) 870-3000.

Lawrence Weiner Posters
Walker Art Center
Minneapolis
Jan. 23-March 6

Lawrence Weiner bases his art on the written word. He composes brief texts that are placed on buildings or published as inexpensive posters, plaques and pins. Often site specific, his work plays with light, color, space, architecture and surrounding social conditions. This exhibit includes 130 posters from the Vancouver Art Gallery Archive of Lawrence Weiner Posters in Vancouver, where the show was organized. The Walker will supplement the show with its own holdings of Weiner books and ephemera, as well as its most recent Weiner piece to be installed outside the Walker building.

A Common Ground:
Minnesota Communities
Minnesota History Center
St. Paul
Ongoing

The Minnesota Historical Society's latest exhibit is a grassroots program by and for the diverse people of Minnesota. Visitors explore six distinct Minnesota communities, as defined by shared ethnicity, beliefs, values, interests or geography. The exhibited communities are the modern small town of Chokio; the old Jewish and Mexican neighborhood of St. Paul's Lower West Side; Vietnam veterans; the Swedish immigrants in Isanti County; the deaf community; and the Winnebago Indian community. Displays are everything from a parish dress made in Sweden to combat gear of the Vietnam War and artwork of Winnebago women. In developing the exhibit, the Historical Society's staff worked with an advisory panel comprised of community representatives, as well as historians and sociologists. The exhibit is the third-phase opening of the History Center's three galleries. Communities depicted will change occasionally.

For more information, call the Minnesota Historical Society at (612) 296-6126.

In addition, Weiner will discuss his work with Walker's design director Laurie Haycock Makela on Sunday, Jan. 23 at 3 p.m.

For more information about the exhibit or public discussion, call Walker at (612) 375-7622.

Abandonings: Photographs of
Otter Tail County, Minn.
By Maxwell MacKenzie
AIA Headquarters Gallery
Washington, D.C.
Through January

The abandoned homesteads and farms of Otter Tail County, Minn., are captured in panoramic, four-color photos by Washington, D.C.-based architectural photographer Maxwell MacKenzie. The show features 21 large-scale photographs,

ranging in length from 4 to 8 feet. Otter Tail County is 175 miles northwest of Minneapolis. Says MacKenzie, "In the year that I turned 40, I returned to the place where I was born, though not raised, and was drawn to make photographs of the remnants of an earlier life there, which is now all but passed away." As a boy, MacKenzie spent summers helping in his grandfather's printing business in Otter Tail County, which was settled in the 19th century primarily by Norwegians and Swedes. Since 1980, MacKenzie has worked as a freelance photographer. He is widely published in magazines, books and newspapers. He also has a home in Ashby, Minn.

For more information, call (202) 638-3221.

Continued on page 52



**U.S. Department of Agriculture
Northern Crop Research Center, Fargo, ND**

"We wanted...(the structure) to tie into other buildings at the University, so we used a color of brick found on the adjacent structure, plus two other colors predominant on campus. The patterning of the brick draws from the Scandinavian tradition of enlivening utilitarian structures with color and pattern, creating visual interest during the long northern winters."

– Loren Ahles, AIA, Project Designer
– Hammel, Green and Abrahamson, Inc., Minneapolis
Photography: Tom Hlavaty



Burnsville Marketplace – Burnsville, MN

"Brick was chosen as the primary facing material...for all the long established, practical advantages; durability, low maintenance and cost effectiveness. Equally important...were the major aesthetic benefits...Brick was consistent with the surrounding context. The inherent design flexibility of unit masonry coupled with the available ranges of color and texture ensured us that Burnsville Marketplace would indeed age with interest."

– John Gould, AIA, Director of Design
– KKE Architects, Inc., Minneapolis
Photography: Lea Babcock



Warroad Public Library – Warroad, Minnesota

"We selected brick for this project both to emphasize the horizontality of the design and to root the building firmly into its site. Brick connotes permanence and stability, while its modular form gives pattern to otherwise unrelieved surfaces."

– Sarah Susanka, AIA– Mulfinger, Susanka & Mahady Architects
Photography: Peter Kerze

JUST A FEW OF THE STRONG STATEMENTS ARCHITECTS HAVE MADE ABOUT US.

Attractive and flexible. With a myriad of colors, textures and styles, it's no wonder award-winning architects design with masonry. Call (612) 332-2214.

See us at booth #314
at the AIA Minnesota Convention

**MINNESOTA
MASONRY
INSTITUTE**

Lyndel King:

Propelling the University's art museum into the limelight

By David Anger

To hear Lyndel King talk, she's sitting on top of a multimillion dollar act of fate. "I've never worried about having a life plan," says King, director of the University of Minnesota's Frederick R. Weisman Art Museum. "I've always done things by instinct."

Truth be told, however, King possessed a decade-long determination to find a new home for the school's art collection, as well as an education and research facility. Having initially steered toward an academic career, King will tell you that she simply happened upon a museum career. From 1976 to 1978, King served as the museum's assistant director, becoming director in 1978. She left the University in 1979 for a three-year stint at Control Data, heading the corporation's exhibition and museum-relations program.

In 1981 King returned to the University to direct the art museum "with the idea to either build a new facility or discover that it wasn't possible," she says. "I knew that in order to convince the community that we needed a new building I had to make a commitment to the job because we had had a revolving door of directors. Yes, there were extremely discouraging times and a lot of politics to overcome." But then she pauses, looks out her massive office window toward downtown Minneapolis, and adds with a smile, "I'm glad I stayed. It was a gut decision—not a life plan."

Charlotte Karlen, board member

of the Weisman, explains the unique role of a museum director: "A museum director has to be many things—a scholar, business manager, creative catalyst and politician, especially at the University. Lyndel is all of those things, plus she has determination.

King has transformed an embarrassment—U of M was the only Big Ten school lacking a freestanding museum—into a landmark. Not only is the Weisman Art Museum Gehry's first public building in the Twin Cities (his previous Minnesota cred-

its include the 22-foot high glass fish in the Conservatory at the Minneapolis Sculpture Garden and the Winton guest house in Orono), the museum has garnered as much attention as others on the East Coast, such as Jose Rafael Moneo's museum for Wellesley College and Cesar Pelli's Frances Lehman Loeb Art Center at Vassar.

While the structure remains controversial on the home front, such design critics as

Suzanne Stephens applaud the building. "Architects are often accused of overwhelming art with architecture—as though stuffing everything into bleak, warehouselike boxes is the answer," she says. "The best museums foster interactions between art, audience and architecture."

In many ways Gehry's design speaks to the MTV generation—highly visual and animated. While most museum directors assiduously plan for this kind of an achievement, such was not the case for King. Born Lyndel Irene Saunders in Enid, Okla., and raised in Hugoton, Kan.—population 2,500—art was not a mainstay in her early life. While Hugoton holds the distinction of be-



Lyndel King

Don F. Wong

The new building proves that point."

Before the Frank Gehry-designed building was built on the east bank of the University's Minneapolis campus, the museum's collection was better known outside the Twin Cities. Out-of-towners would turn up at the museum's former hermetic location on the third floor of Northrop Auditorium, searching for Marsden Hartley's *Adelard the Drowned*, *Master of the Phantom*, only to be told: "It's in storage." Not only were the atticlike galleries inadequate, the University's conservation facilities were equally appalling, prompting one curator to pronounce that the conditions at the University gallery were "pretty terrible, some of the worst I've seen. It's just a dirty, filthy place."

Continued on page 53

AIA Documents Make Life Easier.

A-SERIES DOCUMENTS

Prices are effective November 1, 1992.

Please call for Member Discount Prices.

A101	1.50	Owner-Contractor Agreement Form-Stipulated Sum (4/87) with instruction sheet
A101/CMa	1.90	Owner-Contractor Agreement Form-Stipulated Sum-Construction Management Edition (1992) with instruction sheet
A107	1.50	Abbreviated Owner-Contractor Agreement Form for Small Construction Contracts-Stipulated Sum (4/87) with instruction sheet
A111	1.50	Owner-Contractor Agreement Form-Cost Plus Fee (4/87) with instruction sheet
A117	1.50	Abbreviated Owner-Contractor Agreement Form-Cost Plus Fee (4/87) with instruction sheet
A121/CMc	1.60	Owner-Construction Manager Agreement Form where the Construction Manager is also the Contractor (1992)
A171	1.80	Owner-Contractor Agreement for Furniture, Furnishings and Equipment (1990) with instruction sheet
A177	1.95	Abbreviated Owner-Contractor Agreement for Furniture, Furnishings and Equipment (1990) with instruction sheet
A191	2.50	Standard Form of Agreement Between Owner and Design/Builder (1985) with instruction sheet
A201	2.90	General Conditions of the Contract for Construction (4/87) with instruction sheet
A201/CMa	3.00	General Conditions of the Contract for Construction-Construction Management Edition (1992) with instruction sheet
A201/SC	1.50	General Conditions of the Contract for Construction and Federal Supplementary Conditions of the Contract for Construction (1990) with instruction sheet
A271	2.25	General Conditions of the Contract for Furniture, Furnishings and Equipment (1990) with instruction sheet
A305	1.50	Contractor's Qualification Statement (12/86)
A310	.30	Bid Bond (2/70)
A311	.50	Performance Bond and Labor and Material Payment Bond (2/70)
A312	.60	Performance Bond and Payment Bond (12/84) with instruction sheet
A401	1.50	Contractor-Subcontractor Agreement Form (5/87) with instruction sheet wrapped
A491	2.50	Standard Form of Agreement Between Design/Builder and Contractor (1985) with instruction sheet
A501	2.75	Recommended Guide for Bidding Procedures and Contract Awards (6/82)
A511	3.35	Guide for Supplementary Conditions-incorporates A512 (6/87)
A511/CMa	2.90	Guide for Supplementary Conditions-Construction Manager-Advisor Edition (1993)
A512	.20	Additions to Guide for Supplementary Conditions (12/89)
A521	2.90	Uniform Location Subject Matter (1981/Reprinted 1983)
A571	2.75	Guide for Interiors Supplementary Conditions (1991) with instruction sheet
A701	1.50	Instructions to Bidders (4/87) with instruction sheet
A771	1.80	Instructions to Interiors Bidders (1990) with instruction sheet

Save time and money by eliminating the need to draft a new contract for every transaction!

AIA documents are court-tested and updated regularly to reflect industry changes: construction practices, technology, insurance and legal precedent.

Choose from more than 120 contracts and forms that help clarify your rights and obligations as well as those of the client, contractor and consultant.

For a complete price list and ordering information, contact *Minnesota's only full service distributor:*

AIA Minnesota

International Market Square
275 Market Street #54
Minneapolis MN 55405
612/338-6763

documents
FULL SERVICE DISTRIBUTOR



THE AMERICAN INSTITUTE
OF ARCHITECTS

Something strange just landed at the University of Minnesota. It's called the Frederick R. Weisman Art Museum, and it looks unlike anything else in Minnesota. Heads are turning and necks are craning as people zip down Washington Avenue and glimpse this geometric abstraction along the Mississippi River.

Twigs and things

If people are surprised by the Weisman Art Museum, it's because the building doesn't look "Minnesotan." That's all for the best.

The building is a boisterous display of shapes and forms without attempting to mimic a particular architectural style.

A couple of years back when daytime talk-show hosts Regis and Kathie Lee taped their program in the Twin Cities, the television station built a set complete with pine trees and lodge-style furniture. In the television show *Coach*, the main character escapes to his rustic cabin in the Minnesota woods. At the Mall of America, Snoopy hangs out in a woody theme park meant to evoke Minnesota's north woods.

Look around the Twin Cities and you'll discover the rustic Minnesota look popping up everywhere, from a new restaurant at Calhoun Square to a gift shop at the Galleria and a coffee shop downtown. You would think Minnesota design is summarized by twig furniture, big-timber beams, fieldstone foundations and fireplaces, and moose trophies. This may be appealing to tourists, but for those of us who live here, enough is enough. Recent efforts to capture a Minnesota aesthetic are based on a skewed interpretation of the state's unique features. Good design does not copy styles—it stands on its own as an intelligent response to its program and context.

So if the Frederick R. Weisman Art Museum is turning a few eyes, it's because it's refreshingly original without attempting to build upon a nonexistent vernacular Minnesota style.

Eric Kudalis
Editor

Postcard perfect

The University of Minnesota's new Frederick R. Weisman Art Museum sparks controversy and delight

By Robert Gerloff

It's here. It's weird. Get used to it. Sing its praises or call it what you will—the car crash, the train wreck, the crumpled tin can or the alien spaceship from Planet Zog—the University of Minnesota's new \$14 million Frederick R. Weisman Art Museum, designed by Frank O. Gehry Associates, Santa Monica, Calif., with executive architects Meyer, Scherer & Rockcastle Ltd., Minneapolis, is here to stay.

No other building in recent Minnesota history has provoked such controversy. Everyone either loves it

or hates it, and is delighted to tell you why. Such controversy is to be expected: not only is Frank Gehry the most original and fascinating American architect of the late-20th century—he has won every award there is to win—but art museums have become the highest visibility and status commissions in contemporary society, replacing cathedrals and city halls as symbols of civic virtue.

What's surprising is that despite Gehry's prominence and despite the commission's high profile, his design has glaring weaknesses. It is weak, for example, in three areas particularly important to many architects practicing today: planning, community and environmental integrity.

Gehry's design doesn't even acknowledge the profession's current obsession with planning, the belief that buildings are not just isolated objects but should help create and define larger spaces between them.

The University's central quadrangle, known as The Mall, is the primary public space on the Minneapolis campus, the setting for rallies, demonstrations and festivals. While The Mall is strong and healthy around Northrop Auditorium (the

museum's former home), it is weak where Washington Avenue bisects it in front of Coffman Union. Gehry could easily have strengthened this campus core by facing his design towards the little plaza in front of Coffman Union, one of the most heavily used public spaces on campus. But instead he turned his back on the campus, literally facing a blank, featureless brick wall toward The Mall and orienting his main façade, with its explosion of stainless-steel forms, toward the Mississippi River. However striking this façade may be, as an isolated form it does nothing for the campus structure. If anything it weakens The Mall even further.

Gehry's focus on building form over campus structure also makes the design feel oddly dated. Architects back in the early 1960s defined architecture as "functional sculpture." Form, not planning, was important. The wilder the form, the better the building. This approach has its problems. Anyone who has driven the I-494 strip knows that a collection of disconnected forms—car dealerships, motels, office buildings—however distinguished as individual buildings, does not a city make. Nor does a collection of disconnected forms magically create a good campus.



Don F. Wong

With 11,000 square feet of exhibition space, the Frederick R. Weisman Art Museum occupies a key site next to Coffman Memorial Union. Large overhangs (opposite) mark the entrance near the pedestrian bridge linking the campus's east and west banks. The river-facing façade (top) is the building's liveliest section. Stainless-steel panels meet terra-cotta colored brick walls (above) on the south façade. Stainless-steel skirts decorate the concrete bridge along the north side (model below). The geometric, stainless-steel exterior (overleaf) is a multichromatic light show at sunset.

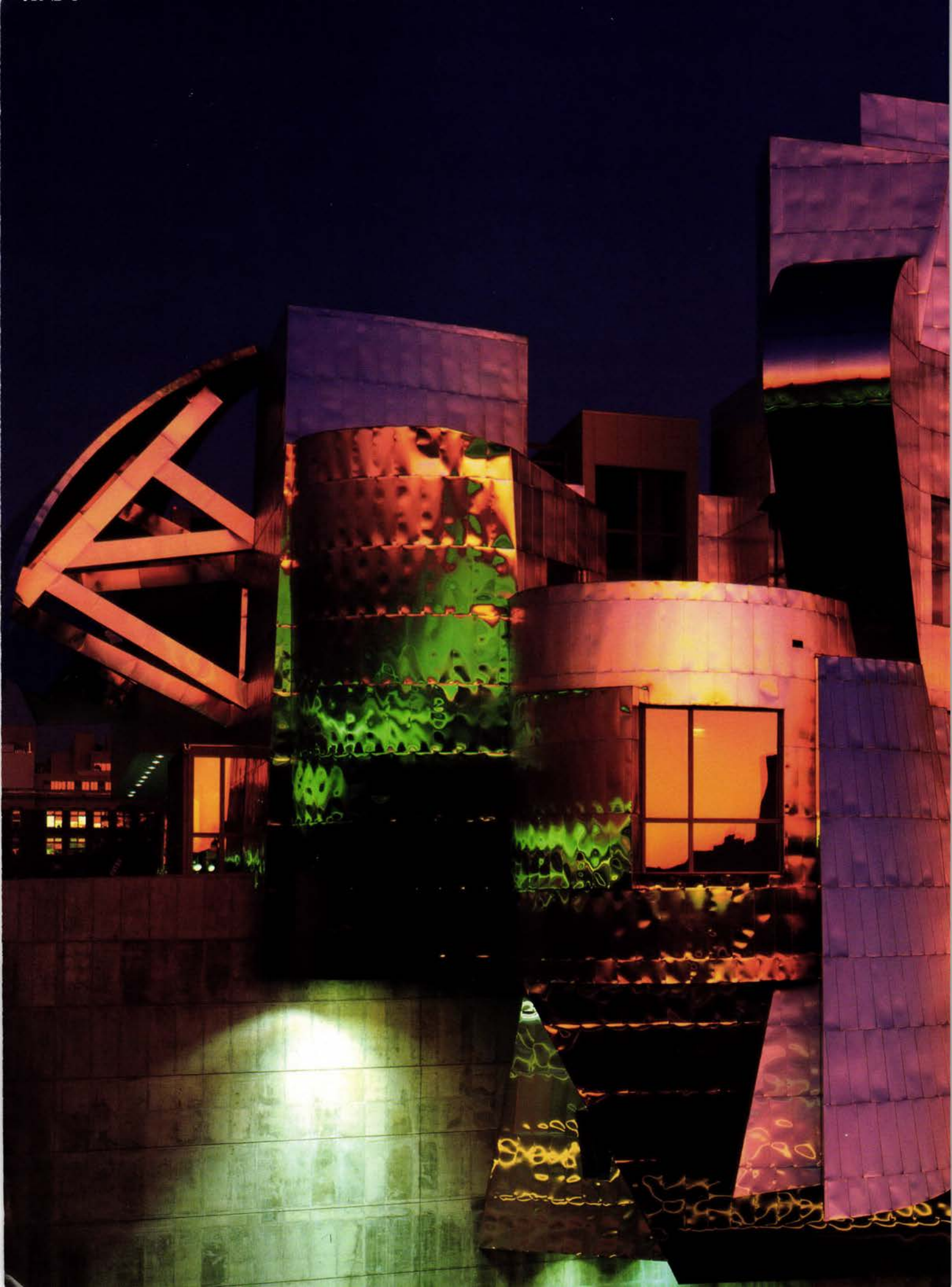


Joshua White



Don F. Wong









Gehry's design also ignores questions of community, the ideal that a building—especially a public building—should speak to the values, aspirations and yearnings of the larger community from which it springs. Whereas a university is a collection of individuals working together, the Frederick R. Weisman Art Museum is purely the heroic vision of an individual artist. It's a romantic work that stands aloof and isolated from the University community, both physically and spiritually. If the building doesn't care about the community, will the community—students and faculty, regents and parents—accept the building as their own, or will it forever stand like an alien in their midst?

Gehry also shrugs off the growing "green architecture" movement, which believes that architects should specify environmentally safe and renewable materials.

One green concern is reducing total energy consumption. This means reducing the energy consumed while heating and cooling the building, and also the energy consumed mining, milling and transporting materials, the so-called "embodied energy" within a building. Brick is benign,

but stainless steel has one of the highest embodied-energy contents of any material.

Another aspect of green concern is specifying such renewable materials as wood harvested from sustainable forests. Gehry specified windows made of teak and mahogany, both tropical hardwoods that are generally harvested from the rapidly vanishing rain forests.

Gehry's design may be weak in regard to planning, community and environmental integrity, but so what? He made his reputation flouting such pedestrian eat-your-peas concerns, focusing instead on designing exciting, dynamic and visually challenging forms that will knock your socks off. Gehry wasn't hired to improve the campus plan. He was hired to design a postcard-perfect building that will catapult the museum into the public's imagination.

And without question the postcard view of the Frederick R. Weisman Art Museum is stunning. Stand on the Washington Avenue bridge and watch the setting sun bounce pink and golden hues off the fractured stainless-steel forms. Gehry's design, if not beautiful in the traditional sense, is oddly charming, even endearing. The façade may be awkward, it may be exuberant and goofy, but ultimately it is utterly secure in its sculptural strangeness. Love it or hate it, the University of

Minnesota's new Frederick R. Weisman Art Museum is Minnesota's newest icon.

But wait! Lost in all the hubbub surrounding the building's form is the most important question of all: Is it a good place to look at art?

Controversy will stop at the front door. While the exterior is flamboyant, the interior is unexpectedly sub-

tle. Paintings by American masters as diverse as Marsden Hartley and Alfred Maurer, Georgia O'Keeffe and Milton Avery, Robert Motherwell and Roy Lichtenstein—paintings rarely exhibited in the Museum's cramped old galleries on Northrop's third floor—float on all-white walls, delicately bathed in natural light. Paintings, not architectural gymnastics, dominate the museum's interior.

Yet while subtle, the interior is anything but a blank shoebox. High above the paintings, high above the cool maple floor, an eccentric collection of all-white trusses, light scoops and forms seem to dance in the constantly changing natural light, light so complex and rich that the interior seems bathed in color.

However controversial the exterior, and however weak the building's connection to the campus, Gehry has designed an interior space of breathtaking simplicity that is simultaneously serene and animated, a delightful background to the University's collection. To answer the most important question of all, the Frederick R. Weisman Art Museum will be a wonderful place to study art.

It's here. It's weird. Enjoy it.

Robert Gerloff is an associate with Mulfinger, Susanka & Mahady Architects in Minneapolis.



Don F. Wong



Don F. Wong

Sculptural walls (opposite and top) provide kinetic backdrops for the museum's exhibits. Skylights include sun screens that can be closed. A final touch is a fish (above) designed by Gehry.

ICE HOUSE

The University hockey team finds cool quarters in the new Mariucci Arena

By Eric Kudalis



Don F. Wong

When the North Stars left town in 1993, the Twin Cities was left without a professional hockey team—an odd predicament for a region renowned for its pounding winters. The new Mariucci Arena on the University of Minnesota campus in Minneapolis will help fill the North Stars void.

Designed by Opus Architects & Engineers of Minneapolis and Graham Edmunds Architects of Calgary, Alberta, the facility houses the University's competitive hockey team, which formerly was relegated to a portion of Williams Arena across the street.

Working off a program developed by David Knoblauch, a hockey enthusiast who volunteered his time, Opus teamed with Graham Edmunds in a design/build competition because of the Canadian firm's expertise in designing athletic facilities. Graham Edmunds is noted particularly for Calgary's Saddle Dome,



Shin and Joel Koyama



Don F. Wong

regarded as one of the best hockey facilities around.

With a slim \$17.5 million budget, the architects concentrated on function and utility rather than architectural bells and whistles. The facility is straightforward. Approximately 9,500 seats wrap around the 100-by-200-foot Olympic-size rink under a 240-foot, clear-span roof. John Albers of Opus says devising superior site lines and plenty of leg room were paramount design con-



siderations, and something lacking in the old facility. Interior finishes are minimal and expressed in the steel structural systems and the concrete floors and risers. Seats are familiar maroon and gold University colors. To retain a bit of University sports history, the architects sheathed the concourse balcony with bricks salvaged from the demolished Memorial Stadium.

The exterior detailing follows traditional campus architecture. The

bowl-shaped building is walled in brick. Patterned brick ribbing was inspired partially from detailing of the razed football stadium and Williams Arena. The largely windowless façade is enhanced by a series of brick stairwell towers, while maroon columns stretch upward along the east-facing glass entrance.

With the new Mariucci Arena, the architects have built a solid home for playing and watching hockey.

Opus Architects & Engineers and Graham Edmunds Architects based the brick exterior of the Mariucci Arena at U of M (above and opposite) on traditional campus architecture. The inside features an Olympic-size rink (opposite bottom) under a 240-foot, clear-span roof.



Designed by Hammel Green and Abrahamson, the 1,250-seat Ted Mann Concert Hall features a glass wall (above and opposite), whose curving form recalls the shape of a piano. The off-white exterior panels (above and opposite top) are made of EFIS, a synthetic stucco.

Mississippi River concerto

The University of Minnesota's musical-performance programs settle into a permanent home in the Ted Mann Concert Hall

By David Anger

The Ted Mann Concert Hall, designed by Hammel Green and Abrahamson of Minneapolis, was far in the future when our forefathers witnessed the completion of the University of Minnesota's first building (Old Main) in 1857. For decades the University's musical-performance programs were juggled between a variety of venues throughout the sprawling campus. Finally, music has a permanent home at the University.

The new concert hall, an extension to the east side of the music school's Ferguson Hall, will house the University Opera and 12 ensembles, ranging from the University Symphony Orchestra to several jazz bands and the Concert Choir.

The history of Ferguson Hall and 1,250-seat Ted Mann Concert Hall resembles an operetta, complete with a hero—Ted Mann, who generously donated \$2.5 million. The story begins in 1977 when faculty and students rallied to demand improved academics and facilities. (They came armed with a study revealing that the University's music

school had the lowest budget, the highest faculty-student ratio and the most inadequate facilities in the Big Ten.) Responding to these embarrassing revelations, the state legislature passed an appropriation to build Ferguson Hall, designed by the Close Associates in 1985. Ferguson Hall was meant to feature an



adjacent performance venue, but inflation soared past the government's allocation, making it fiscally impossible.

After three previous efforts, the legislature in 1990 approved \$6.7 million for the project and bids for the auditorium were reopened, with HGA snagging the commission.



HGA has been designing performance halls for four decades, beginning with the Benedicta Arts Center in 1963 at the College of St. Benedict, Orchestra Hall in conjunction with Hardy, Holzman, Pfeiffer Associates in 1974 in Minneapolis, and most recently the renovations of the Guthrie and Orpheum theaters in Minneapolis.

While the Mann is a triumph of wills and a gem for budding musicians, it is chiefly a fine classroom rather than a riveting piece of architecture. Indicative of the University campus, a tunnel connects the Mann to neighboring structures, providing a shield against inclement weather. Backstage facilities are first rate, complete with rehearsal rooms that mimic the main stage. Other backstage resources include dressing rooms, costume and scene shops, a small greenroom and kitchenette, and storage for instruments.

Like the renovated Guthrie, the hall features an imposing glass wall, only the Mann's is curvilinear. It appropriately recalls the shape of a grand piano and the sinuous curves of the Mississippi River. The auditorium's position on the river is welcomed since the University ignored the waterfront for decades. Tucked behind the Ralph Rapson-designed Rarig Center and opposite an undergraduate dormitory, the Mann strikes a quiet note, properly tuned with the conservative tenor of the University's architecture.

Because money wasn't plentiful, the Mann's lobby never aspired to rival the Ordway's in St. Paul. The interior decoration is minimal. The only free-standing decorative element, John Bush's tactile *Burning Bush* (1956), is dwarfed in an enormous open space. Fortunately, the floor-to-ceiling curving window surveying the Mississippi and East Bank saves the lobby by offering a dramatic visual focus.

The Ted Mann Concert Hall, however, does succeed in its primary mission—to provide a fitting environment for the creation of music.

David Anger is a Minneapolis writer and frequent contributor to Architecture Minnesota.

Interior detailing is minimal, with the design emphasis placed on creating an acoustically solid auditorium (above). The lobby (opposite) overlooks the Mississippi River. John Bush's "Burning Bush" (top) is one of the lobby's few decorative elements.



TORONTO CITY HALL



ST. LOUIS "GATEWAY ARCH"



FEDERAL RESERVE BANK BUILDING

Visible design

After 15 years of growth, RSP Architects eyes the future with a higher profile

By Eric Kudalis

RSP Architects is a bit of a well-kept secret in the Twin Cities. The architectural firm has been around since 1978 and has grown to nearly 100 people with \$1.75 billion in completed projects. The firm's work is diverse, ranging from retail to military, high-technology, medical, educational, corporate and interiors, among other specialties.

Yet RSP lacks a signature style

—a particular look to its architecture—that says RSP. That, of course, is the secret to its success. RSP is able to adapt to many different building types. With a recession still breathing down the building industry's neck, diversity is the path to solvency. Of course, that chameleon adaptability is also the reason for the firm's quiet public image.

"Our greatest strength is also our greatest internal challenge," says Michael Plautz, a founding principal. "It is difficult to form a composite image of RSP, and I don't think there's another firm in town quite like us."

RSP has many projects churning at once, but few of those high-profile ones that snag public attention—buildings like an art museum or downtown high-rise.

"What's missing is a steady diet of unique, one-of-a-kind projects," says Plautz, who wants to target those missing links to round out the firm's design portfolio.

Alexander Ritter, another founding principal, says client relations is the firm's strong point.

"One of the underlying issues is

how we deal with clients," Ritter says. "Most clients like working with us because we make their lives easier through the services we deliver."

Apparently Ritter is right. Clients do admire RSP. Nearly 75 percent of the firm's work is repeat business.

"We try to keep a clear sense of value on service and quality of design being offered," says David Norback, principal covering corporate interiors and

education. "Successful design should embody and reflect the client's mission and vision. Every client on every project is different. You have to be adaptable."

Adaptability has kept such clients as IDS, Target Stores, Montgomery Ward, the University of Minnesota and others coming back for more.

So how does RSP please clients? First by developing specific market sectors. Each market sector is led by one or two principals. The principal develops an experienced core team of architects to work within that sector.

"Most clients don't want you to learn on them—they want you to bring a certain level of experience," Ritter says. "Firms today comprise a series of specialists within a large firm—while 15 years ago large firms were more generalists."

Indeed, RSP functions more as several small firms under a large-firm umbrella. That's not the way it started 15 years ago.

RSP began in the late 1970s with the starry-eyed idealism that propels many architects to break out on their own. Founders Michael Plautz,



Don F. Wong

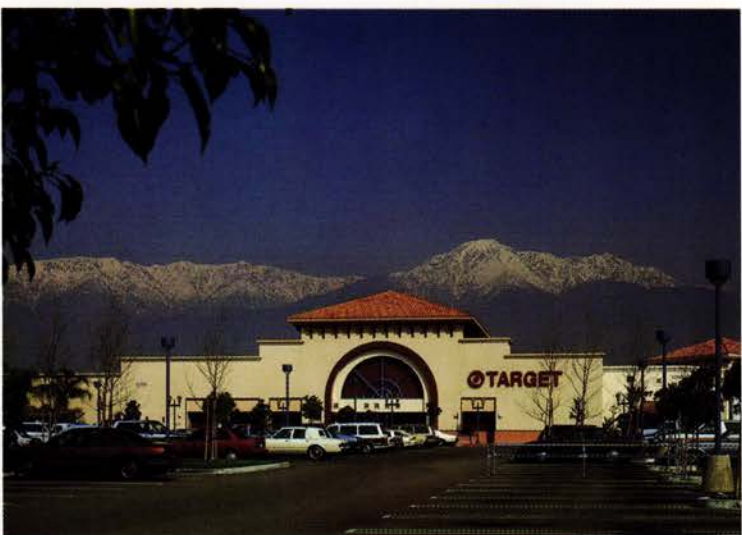


George Heinrich

Alexander Ritter and Don Suppes wanted the intimate, hands-on approach to architecture that seemed possible only in a small-firm environment. They wanted to be involved in a building's design solution from beginning to end, and still have time to pursue other creative interests. All



RSP Architects' principals are (opposite left to right) Alexander Ritter, Jim Fitzhugh, Dick Daniels, Michael Plautz, Robert Lucius, David Norback and Terry Wobken. Recently completed work includes the Ecology Building (above) at the University of Minnesota, St. Paul Campus.



A major client since the firm's formation is Target Stores. The stores often reflect regional architectural character and climate, as seen in outlets in Scottsdale, Ariz., (top); and Rancho Cucamonga, Calif., (above). Target Greatland (right) in Plymouth, Minn., is a prototype Greatland store, which offers expanded selling space. Other work includes the Anne Sullivan Communication Center (opposite top) for the Minneapolis Public Schools, and the Flight Simulator Building (opposite bottom) for the Minnesota Air National Guard.



three had experience working at large firms. Plautz and Ritter teamed up first, with Plautz strong in design and Ritter in marketing. Suppes soon joined to complement the others' strengths with his technical background.

"We've always been willing to grow into an opportunity," Ritter says.

Plautz, however, says growth was not necessarily his initial concept. "My views were to stay small, Sandy's [Ritter] were to go with the flow and grow. I have a natural resistance to largeness for its own sake."

But growth seemed inevitable from the start, especially with Plautz's Target Stores connection that has provided a steady flow of work ever since.

Says Plautz, "Target is what started our firm, and the spin-off opportunities that happened swept us into our size."

The firm occupied a couple of different Minneapolis venues before settling into its current home on First Avenue in Minneapolis's warehouse district. Plautz, Ritter and Suppes were something of pioneers when they bought the 3-story brick building in 1981. The district was just beginning to be redeveloped. They figured they could rent out most of the building once they renovated it. Of course, RSP is the sole tenant now, occupying all levels plus a mezzanine.

From the start, the founding principals created a working environment that encourages leadership and professional growth. Even when Suppes left five years ago, there was never a battle for power. The name, in fact, was changed from Ritter Suppes Plautz in 1988 to RSP Architects to give the firm a lasting identity beyond its founders.



Philip Prowse

"Michael and I want to set up a practice that will have an ongoing life," Ritter says. "It's an advantage to build on other people's strengths, not just a few personalities."

Seven principals comprise RSP today.

Dick Daniels oversees the Target Stores program, while Robert Lucius rounds out the retail end with such clients as The Musicland Group, Sears Roebuck & Co., and Montgomery Ward. David Norback covers corporate architectural interiors and elementary and secondary education with such clients as Deluxe Corporation, IDS, Piper Jaffray, Inc., and the Minneapolis Public Schools. On the high-technology side of design is Terry Wobken working with Cardiac Pacemakers, Inc., INCSTAR, and Medical Graphics Corporation, among others. And Jim Fitzhugh directs much of the public-sector work, including the U.S. Army Corps of Engineers, U.S. Postal Service and Air National Guard.

Ritter conducts the marketing strategy, and Plautz serves as

design principal, guiding overall design.

If the two founders have created an environment that allows the other principals to excel, the principals in turn have allowed other architects and designers to assume leadership roles.

"We do a lot of [coaching] here to help train architects," Daniels says. "When we hire architects we try to expose them to a variety of situations and move people into responsible roles."

Part of that responsibility is sharing in the firm's good fortune. By adding an Employee Stock Owner-



George Heinrich



ship Plan (ESOP) that owns half the company's stock, the founding principals have made every employee a stockholder—and what's good for the whole company is good for the individual.

Individual strengths, indeed, fuel RSP. As building programs become more complex and stretch the capabilities of single firms, architectural offices find themselves coupling their individual qualities with outside experts. RSP, which has no engineering department, historically has relied on collaboration. Setter, Leach & Lindstrom of Minneapolis is a 13-year teammate on Target projects, with SL&L handling engineering, and RSP architectural design. Recently, RSP joined Henningson, Durham & Richardson, Inc., of Omaha, Neb., as a midwest affiliate to pursue medical work in the region.

"It's a buyer's market, and the competition is fierce," Plautz says. "Collaboration gives you an edge by

teaming with a firm that complements or reinforces your experience."

While collaboration continues to grow in importance, Plautz and Ritter see other pending needs within the profession and firm.

"I think we haven't done enough as a profession to educate the public about what architects do," Ritter says. "It's more than façades. A building's mechanical systems and operations all are influenced by an architect. Such factors as sustainable architecture and 'healthy buildings' are becoming major issues today. The downsizing of corporate America is providing opportunities for architects because we can offer a bigger service role. If we want to have a major public role, architects have to be advocates of good design and value. We need to educate people."

Plautz sees more of a need for architects to get involved in the front-end of design, during the programming stages before a project's scope becomes irreversible.

"We as a profession are not as effective in improving the built environment because we come in late in the planning process," Plautz says.

As for RSP, Plautz sees room for improvement.

"We've concentrated up to this point on building the business end of things," Plautz says. "I think it's a perfect time for me to push design and visibility. This means pursuing certain high-profile commissions that we might not have gone after before. Also we can select one or two competitions that pursue 'visionary design.'"

For Plautz and Ritter, the primary firm goals remain service and client satisfaction, and the professional opportunities continue to challenge them.

Says Plautz, "I still find architecture an exciting sandbox."

Interior work is seen in a corporate office for Investment Advisers, Inc. (above). Other corporate work is the Oak Ridge Conference Center (right) for IDS Financial Services. A rapidly expanding retail client is the Media Play Store (opposite) for the Musicland Group.





More Choice. Less Price. Guaranteed.

More Choice. Less Price. Guaranteed.

MEDIA PLAY

on Sale

Service

Service

NEW YORK TIMES BEST
SELLER 40% OFF



Minnesota travelogue: Rochester

America's "best place to live" is riding a crest
of development and growth

By Bette Hammel



The road to Rochester is well worth traveling, not only for a health check at the Mayo Clinic, but to see how architecture again is reshaping the face of this unique metropolis set amidst southern Minnesota's serene countryside.

As Highway 52 approaches town, the scene abruptly changes from bucolic to urban. A skyline bursts into view, complete with high-rise towers, cupolas, hotels, industry, shopping malls, skyways and construction cranes. If only the Mayo brothers could see their city now—a city bustling with construction equipment erecting a new government complex on the Zumbro River, a new public library and parking ramp, skyways and another major building for the Mayo Clinic.

Just last fall Rochester was declared "the best place to live in America" by *Money* magazine's annual survey based on several leading factors: clean air, healthy economy, low crime rate, superior medical care and affordable housing. The survey doesn't mention how Rochester has helped attract so many families with its modern schools, shops, theaters and restaurants. Civic leaders and planners have had a prominent role in making this city of approximately 74,000 the cosmopolitan center it is today.

Rochester has a rich heritage of historic architecture. One of the city's landmarks is Mayowood (right). Listed on the National Register of Historic Places, the mansion was completed in 1911 for Dr. Charles H. Mayo. Much of the house, which overlooks the Zumbro River Valley, was designed by Dr. Mayo himself and features stone, reinforced concrete and tile.



Courtesy Mayo Clinic Archives

Driving the area's economic engine is Mayo, whose 100-year growth has lead to a steady stream of jobs. The Mayo Clinic became such a huge success that Rochester's fame spread worldwide as the home of this renowned medical center.

"We need to keep an environment that's attractive both for Mayo and the people it brings in because there are a lot of other attractive health centers around the country," says Douglas Knott, city administrator for the development district.

Dr. William Worrall Mayo came to Rochester in 1863 to examine men being inducted into the army

during the Civil War. He finally set up private practice and was joined by his two sons, William J. and Charles H., in the early 1880s.

With the fund-raising help of the nuns of St. Francis, the Mayo brothers established Saint Marys Hospital in 1889. As the Mayo brothers' practice grew, they added other doctors and

worked together as a group sharing their specialized knowledge. This teamwork was a unique concept in medical practice then.

By the early 1900s, the practice became known as the Mayo Clinic. Today the clinic and its two hospitals, Saint Marys and Rochester Methodist, make up the Mayo Medical Center, the world's largest private medical center. Mayo's major facilities in downtown Rochester now spread over a 7-block area connected by a pedestrian subway system.

Over the years, many architects have worked for Mayo, starting with Thomas Farr Ellerbe in 1914, when he and his then-small firm designed the original Mayo Clinic building, a small red-brick structure that the doctors soon outgrew. By 1927, Ellerbe had designed the first major diagnostic center, the Plummer Building, a 15-story neo-Gothic sandstone building topped with an intricately decorated belfry. Ellerbe's firm also designed many other Rochester build-

Other historic Rochester sites are two early designs by Thomas Farr Ellerbe: the Dr. Henry Plummer residence of 1924 (top); and Mayo Clinic Building of 1914 (below).



Courtesy Mayo Clinic Archives



Courtesy Ellerbe Becket

ings, including the airport, Rochester Methodist Hospital and the elaborately decorated Chateau Theater.

Ellerbe's best-known work from the '50s is the Mayo Diagnostic Building, an International-style building with an elegant gray-marble façade marked by a graceful bronze sculpture, "Man and Freedom," above the entrance. Ellerbe Becket continues to design for Mayo in Rochester and at satellite campuses in Scottsdale, Ariz., and Jacksonville, Fla.

Today the big news in Rochester is Mayo's plans to construct the Damon Building, designed by the joint-venture team of Cesar Pelli & Associates of New Haven, Conn., and HKS of Dallas as associate architects.

Robert Fontaine, head of planning and programming for Mayo, explains the need for such a facility:

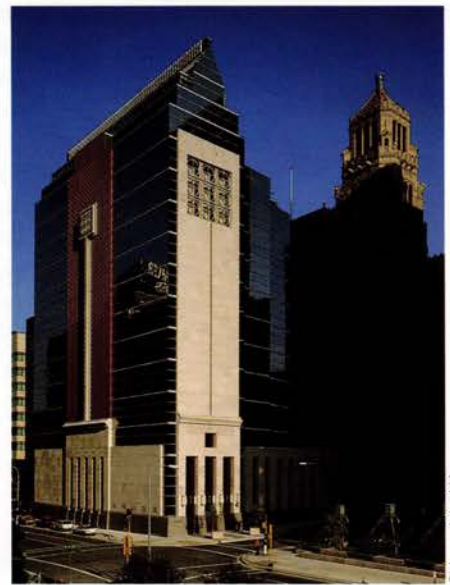
"The Mayo Building was designed for clinical space use, and over the years space limitations required many of the procedure and testing functions to be decentralized in other buildings.

The Damon Building, to be connected on multiple floors, will allow consolidation of our procedure areas, thereby providing greater efficiency of clinic, staff and equipment."

Indeed, marrying such a massive new structure with the old will be a significant design challenge. The first phase will be 10 stories, with 10 more floors in a future phase. Completion is expected

in four or five years at an estimated cost of \$132 million. (At press time, the project has been put on hold.)

Just five years ago, Mayo completed construction of the Harold W. Siebens Building for medical education and communications next to the Plummer Building. The modernist high rise of steel and glass, designed by Hammel Green and Abrahamson of Minneapolis, reflects the Plummer's intricate ornamentation in its gray-glass cur-

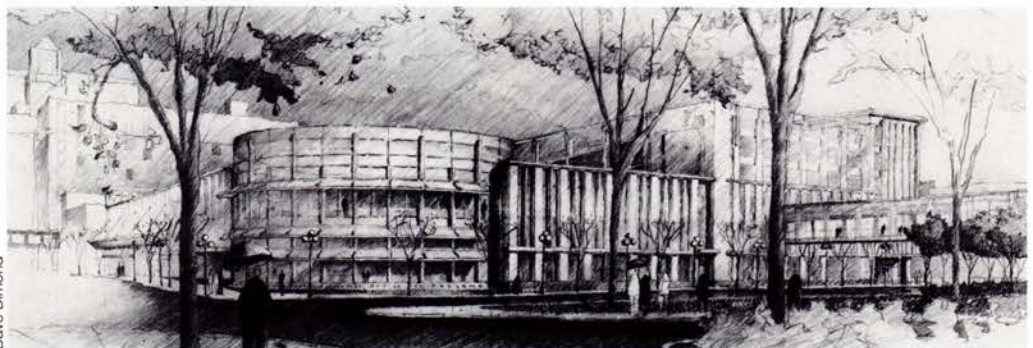


Shin and Joel Koyama



Rochester Convention & Visitors Bureau

The 13-story H.W. Siebens Education Building (top), designed by Hammel Green and Abrahamson in 1988, reflects the ornate detailing of the historic Plummer Building next door. The Mayo Civic Center (above) features commemorative statues of Drs. William and Charles Mayo. Construction is slated for the new Rochester Public Library (right), designed by The Leonard Parker Associates of Minneapolis with associated architects Yaggy Colby Associates of Rochester.



Dave Dimond

tain wall and similar sandstone at the base. Underneath the Siebens' tower at concourse level is a 3-story light-filled atrium and patients' lounge.

With all this growth in Rochester and Olmsted County, the need for public buildings also has grown. City and county government leaders struggled for space in their outmoded building. After much debate, they arrived at a consensus—to consolidate government services in one large complex.

The site was another problem. But thanks to plans completed in 1988 by the U.S. Army Corps of Engineers and the city for a flood-control project on the Zumbro

River bend, the perfect site became available.

Rochester's new Government Center was dedicated in June 1993. It houses Olmsted County offices, six courtrooms, a 100-bed direct-supervision jail, law-enforcement center and a shared county-board/city-council meeting room. A new city hall will be added next year.

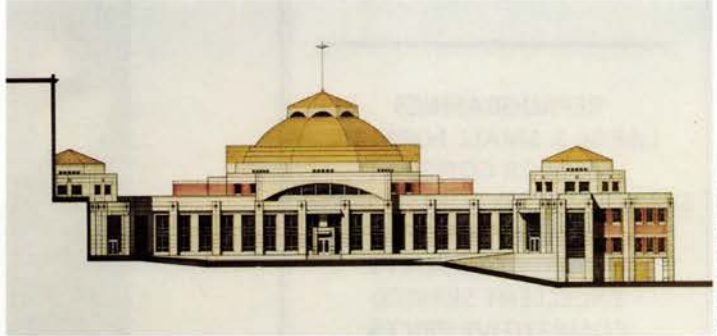
The county's new 6-story structure of warm red brick and mellow beige cast stone, designed by KKE (Korsunsky Krank Erickson) of Minneapolis, presents a stately civic presence on the river.

According to Ron Erickson, principal, the architects planned the \$23.4 million complex to look historic with its heavy cornice and 2-story classical loggia across the front. A rotunda serves as shared space between the county-board and city-council areas.

Rochester's new \$10.8 million city hall is a project of two Minneapolis firms—Lindberg Pierce Architects in association with Bentz/Thompson/Rietow. The building will be compatible with the courthouse as it connects with the rotunda.

"We wanted it to fit with the county building yet give the city a presence," says Douglas Knott.

The same exterior materials will be used: brick and cast stone with copper cladding on the roof. Milo Thompson of Bentz/Thompson/Rietow calls it "a modern building based on classical forms."



Courtesy Lindberg Pierce



Shin and Joel Koyama

The forthcoming Rochester City Hall (top), designed by the Twin Cities firms of Lindberg Pierce Architects in association with Bentz/Thompson/Rietow, will link up with the recently completed Olmsted County Government Center (above), designed by KKE Architects of Minneapolis.

Continued on page 55



*"Serving the Architectural,
Engineering and Construction
Communities Since 1945"*

**REPROGRAPHICS
LARGE & SMALL FORMAT
COLOR COPIES
SCANNING/CAD CONVERSIONS
PLOTING SERVICES
QUALITY PRODUCTS
EXCELLENT SERVICE
COMPETITIVE PRICES**

[612] 374.1120 • [800] 328.7154
1401 Glenwood Avenue
Minneapolis, MN 55405

Try an Engineering Firm with a Unique Capability.

Listening.

You've worked hard to achieve the goal of thrilling your client with a design of integrity. Now you need a team player that gets involved and has the passion for the project that you do, to bring your design to life. You need an engineer that can really *listen*.

Listen to deadlines and budgets as well as your ideas.

Listen to the latest developments in technology to offer you creative solutions with value-engineering incorporated throughout.

Call Engineering Design Group of Minnesota for your next project. We make architectural dreams come to life.

We listen.

Structural Engineers Specializing in:
•Commercial•Residential•Industrial
•Curtain Wall•Listening

**ENGINEERING
DESIGN
GROUP**

547 Lovell Avenue
Roseville,
MN 55113

(612) 481-9195

OF MINNESOTA, INC.

When it comes to geosynthetic clay
liner technology, nothing escapes

BENTOMAT®



**Bentomat, the GCL technology
for today and tomorrow!**







CETCO

In Minnesota Call:
Architectural Consultants, Inc.
(612) 935-9800

COLLOID ENVIRONMENTAL TECHNOLOGIES COMPANY

1500 West Shure Drive • Arlington Heights, Illinois 60004-1434
708-392-5800 • FAX 708-506-6150

You can't

drive to work,  walk the dog, cook that pot roast, bake that bread, shower after jogging, watch 60 Minutes, toast the toast, brew the coffee, mow  the lawn, call your mother, be cool in the summer, wash your sweat suit,  dine out, play computer games,  medicate your cold, build your new house, listen to "old blue eyes", ride your  bike, videotape that wedding, vacuum the rug, recycle your garbage, play baseball at night, be warm in the winter, fly to Hawaii,  check the time, flush the toilet, buy a fresh tomato in winter, fill that cavity, use the cash machine

without an engineer.

For a free copy of the Consulting Engineers directory contact:

Consulting Engineers Council of Minnesota
5407 Excelsior Blvd., Suite A
Minneapolis, MN 55416
(612) 922-9696

**ENGINEERING
OUR QUALITY
OF LIFE**



DIRECTORY OF CONSULTING ENGINEERING FIRMS

AM has published directories of architectural and landscape architectural firms for some time. With this issue we present our third directory of those Minnesota firms which provide consultative engineering services. Principals of these firms are members of the Consulting Engineers Council of Minnesota or of AIA Minnesota.

Engineers provide those critical design skills which enable our entire built environment to be structurally safe, comfortably warm and well lit. They also design our highways and bridges, water treatment facilities and power generation plants.

In Minnesota, you will find there is a wealth of engineering talent available for your next project. Study this directory and call either the Consulting Engineers Council at 612/922-9696 or AIA Minnesota at 612/338-6763 for additional information and assistance.

Peter A. Rand, FAIA
Publisher

LEGEND

PE	Professional Engineer
AIA	American Institute of Architects
FAIA	Fellow, American Institute of Architects
ASLA	American Society of Landscape Architects
FASLA	Fellow, American Society of Landscape Architects
RLS	Registered Land Surveyor

ARMSTRONG, TORSETH, SKOLD AND RYDEEN, INC.

4901 Olson Memorial Highway
Minneapolis, MN 55422
Tel: 612/545-3731
Fax: 612/525-3289
Established 1944

James E. Rydeen	AIA
Donald L. Yungner	PE
James N. Riess	PE
Robert A. Martini	PE
Terry L. Stofferahn	PE

Firm Personnel by Discipline	
Mechanical Engineers	14
Electrical Engineers	9
Architects	46
Other Professional/Technical	11
Administrative	10
TOTAL	90

ATS&R Expertise: Quality control/coordination during design, construction, post-occupancy; design of HVAC, plumbing, Direct Digital Control Systems; design of electrical systems including computer facilities, communications; energy conservation including active/passive solar, heat exchange systems, geo-thermal heat pumps, variable air volume, earth berming, ice storage, natural daylighting, energy management systems, energy efficient lighting, heat pumps.

Champlin Park High School, Brooklyn Park, MN; Stillwater Area High School, Stillwater, MN; Farmington Middle School, Farmington, MN; Maple Grove Junior High School, Maple Grove, MN; Calvary Lutheran Church, Golden Valley, MN

BKBM ENGINEERS, INC.

219 North 2nd Street, #200
Minneapolis, MN 55401
Tel: 612/333-7101
Fax: 612/342-9482
Established 1967

Harold P. Bakke	PE
Charles L. Ballou	PE
Thomas J. Downs	PE

Personnel by Discipline	
Civil Engineers	3
Structural Engineers	15
Mechanical Engineers	5
Electrical Engineers	3
Other Professional/Technical	11
Administrative	5
TOTAL	42

Civil, electrical, mechanical and structural consulting services for buildings and bridges. Design of heating, ventilating, air conditioning, electrical power distribution, lighting systems, and energy management studies for industrial, commercial and institutional facilities. Structural design and investigations for buildings, bridges, heavy and special structure design together with field surveying including construction management service. Historic building preservation. Evaluation studies. Railroad engineering, bridges-track-facilities.

Lakeville High School, Lakeville, MN; Minnesota Judicial Center, St. Paul, MN; John & Sage Cowles Conservatory & Sculpture Garden, Minneapolis, MN; City/County Government Center, Rochester, MN; First Street Parking Ramp & Skyway, Rochester, MN.

BONESTROO ROSENE ANDERLIK & ASSOCIATES

2335 West Highway 36
St. Paul, MN 55113
Tel: 612/636-4600
Fax: 612/636-1311
Established 1956

Otto G. Bonestroo	PE
Marvin L. Sorvala	PE
Joseph C. Anderlik	PE
Glenn R. Cook	PE
Robert G. Schunicht	PE

Firm Personnel by Discipline	
Civil Engineers	34
Structural Engineers	6
Electrical Engineers	2
Other Engineers	10
Architects	2
Other Professional/Technical	54
Administrative	15
TOTAL	123

Bonestroo specializes in structural engineering, site engineering, traffic engineering and transportation planning; environmental assessments; wastewater collection and treatment; water supply, distribution and treatment; stormwater quantity and quality management; buildings and recreational projects. Bonestroo provides services as a consultant in both design/build and design/bid situations; feasibility studies, design and construction engineering, and project surveying.

Northwest Airlines Headquarters, Eagan, MN; Olympic Festival Sports Complex, Nashville, TN; Closed-Loop Traffic Signal System, Hudson, WI; Downtown Renovation, Fergus Falls, MN; Central Maintenance Services, St. Cloud, MN.

DAVID BRASLAW ASSOCIATES, INC.

1313 5th Street SE, Ste. 322
Minneapolis, MN 55414
Tel: 612/331-4571
Fax: 612/331-4572
Established 1971

Dr. David Braslaw	PE
-------------------	----

Firm Personnel by Discipline	
Acoustical Engineers	1
Other Professional/Technical	1
Administrative	1
TOTAL	3

Architectural and performance space acoustics, building and partition noise isolation, environmental noise control, exterior facade attenuation for aircraft and other sources, sound system design, industrial noise control, acoustic and noise measurements, control of vibration, blasting and small arms ranges, land use compatibility, environmental assessments, impact statements and indirect source permits.

Minneapolis Convention Center, Minneapolis, MN; Eden Prairie Schools (music facilities), Eden Prairie, MN; Combined Operations Center/Heathrow, London, England; Brown County Jail, New Ulm, MN; Park Nicollet Medical Center, St. Louis Park, MN.

DIRECTORY OF CONSULTING ENGINEERING FIRMS

BRAUN INTERTEC CORPORATION

8000 Town Line Avenue South
Minneapolis, MN 55439-0108
Tel: 612/946-6000
Fax: 612/946-6190
Established 1957

J.S. Braun	PE
George D. Klumpke	PE
Cameron G. Kruse	PE

Firm Personnel by Discipline	
Civil Engineers	56
Electrical Engineers	1
Other Engineers	17
Architects	1
Other Professional/Technical	324
Administrative	124
TOTAL	523

Braun Intertec is an engineering and environmental consulting and testing company providing services to public and private clients from 23 office locations in six states. Services include geotechnical materials and environmental engineering, infrastructure and pavement management; site assessments, natural resource management; lead-based paint consulting; and laboratory analysis.

Mall of America, Bloomington, MN; Target Center Arena, Minneapolis, MN; Dain Bosworth/Neiman Marcus Plaza, Minneapolis, MN; Great Lakes Gas Transmission Company, Minneapolis, MN; Strategic Highway Research Program (SHRP), North Central Region, USA.

CLARK ENGINEERING CORPORATION

2815 Wayzata Blvd.
Minneapolis, MN 55405
Tel: 612/374-4740
Fax: 612/374-4749

Charles E. Hansen	PE
Larry G. McMurtry	PE
Hadi Sajadi	PE
Michael A. Fowler	PE

Firm Personnel by Discipline	
Civil Engineers	3
Structural Engineers	8
Other Professional/Technical	12.5
Administrative	3.5
TOTAL	27

Complete structural and civil engineering services for commercial, industrial and public buildings, bridges, towers, foundations, etc. Water supply, distribution and storage, solid and liquid waste collection, treatment and disposal; street, highway, storm water systems; site development planning. Investigations, studies, reports, plans and specifications.

Weyerhaeuser Company Shipping Container Plant, Aurora, IL; Mystic Lake Casino Expansion, Prior Lake, MN; Stillwater Senior High School, Stillwater, MN; Sharing & Caring Hands, Minneapolis, MN; Red Wing Senior High School, Red Wing, MN.

COMSTOCK & DAVIS, INC.

1446 County Road J
(85th Avenue NE)
Minneapolis, MN 55432
Tel: 612/784-9346
Fax: 612/784-9395
Nine Minnesota Locations:
Bemidji, Brainerd, Grand Rapids, Hutchinson, Lake Elmo, Little Falls, Moose Lake, St. Paul
Established 1952

Julian Fenendael	PE
Tom Thiessen	LS

Firm Personnel by Discipline	
Civil Engineers	7
Land Surveyors	15
Other Professional/Technical	27
Administrative	4
TOTAL	53

Civil Engineering and land surveying services for the federal government, the State of Minnesota, counties, various municipalities and other design professionals. Site engineering, environmental assessments, water supply, treatment and distribution, waste water treatment and collection, storm water collection and quality management, roadway design, topographic, land title, and design surveying. Construction staking and inspection.

Site engineering and surveying services for Minnesota Psychopathic Center and Correctional Facility at Moose Lake, MN; Washington County Law Enforcement Center, MN; Hinckley and Mille Lacs Casinos, MN; Mille Lacs Band of Ojibwe Infrastructure, MN.

DARG BOLGREAN MENK, INC.

7575 Golden Valley Rd., Ste. 210
Golden Valley, MN 55427
Tel: 612/544-8456
Fax: 612/544-8914
Established 1966.

Lloyd W. Darg	PE
Gene Bolgrean	PE
Harry D. Menk	PE

Firm Personnel by Discipline	
Structural Engineers	3
Other Professional/Technical	2
Administrative	1
TOTAL	6

Complete structural engineering services for commercial/retail, office, warehouse, academic, industrial, governmental, medical/health, housing, religious and parking facilities. With expertise in steel, concrete masonry and wood, DBM has engineered new construction, additions, renovations/restorations and performed investigations, feasibility, and special inspections for the architectural profession, owners, developers, contractors and fabricators.

NCR Country Club, Kettering, OH; Lincoln School, Green Bay, WI; Lac Courte Oreilles Casino, Hayward, WI; National Guard Armory, Montevideo, MN; One Pacific Place, Omaha, NE.

DEI (DELTA ENGINEERING, INC.)

2365 McKnight Road
North St. Paul, MN 55109
Tel: 612/779-7004
Fax: 612/779-7103
Established 1970

Stanley K. Rhyn	
William T. Abe	PE
John D. Bland	PE

Firm Personnel by Discipline	
Mechanical Engineers	5
Electrical Engineers	7
Other Professional/Technical	8
Administrative	2
TOTAL	22

Electrical and mechanical consulting engineering services. Specializing in industrial facilities upgrading, new facilities power distribution, process and pollution control projects.

Incinerator, Cottage Grove, MN; Biofilter, Springfield, MO; Thermal Oxidizer, Cottage Grove, MN; Midwest Distribution Center, Cannon Falls, MN; Liquid-Nitrogen Process Upgrade, St. Paul, MN.

DUNHAM ASSOCIATES, INC.

9141 Grand Avenue South
Minneapolis, MN 55420
Tel: 612/885-1800
Fax: 612/885-1856
Established 1960

George F. Dunham	PE
Kathleen M. Kolbeck	PE
Roger K. Martin	PE
Ronald L. Feldhaus	PE
Brion P. Szwed	PE

Firm Personnel by Discipline	
Structural Engineers	10
Mechanical Engineers	31
Electrical Engineers	24
Other Professional/Technical	46
Administrative	21
TOTAL	132

Dunham Associates, Inc. offers mechanical, electrical and structural consulting engineering services. Specialized areas include health care facilities, retail, parking ramps and skyways, data centers, clean rooms, DDC systems, laboratories, structural load studies and design, industrial ventilation and process cooling, and master planning and energy conservation studies for central utilities.

MSP International Airport Ground Transportation Center, MN; Unity Hospital Surgery Addition, Fridley, MN; West Health Campus, Plymouth, MN; UMD Student Center, Duluth, MN; U of M Shops Building Remodel, Minneapolis, MN.

EMANUELSON-PODAS, INC.

6607 18th Avenue S.
Minneapolis, MN 55423
Tel: 612/866-8424
Fax: 612/866-8426
Established 1977

Robert Emanuelson	PE
Paul Emanuelson	PE

Firm Personnel by Discipline	
Mechanical Engineers	3
Electrical Engineers	2
Other Professional/Technical	3
TOTAL	8

Preparation of mechanical and electrical facility study reports, energy analyses, plans and specifications for building construction and construction observations. Mechanical services include plumbing, fire protection, heating, air conditioning and temperature controls. Electrical services include lighting, power, communication and controls.

Minnewaska Area High School, Glenwood, MN; Shakopee Recreation Center/Sports & Health, Prior Lake, MN; Rock Bottom Brewery, Minneapolis, MN; Crystal Evangelical Free Church, Crystal, MN; Miller Chevrolet Auto Dealership, Rogers, MN

ENCOMPASS, INC.

2850 Metro Drive, Suite 523
Bloomington, MN 55425
Tel: 612/854-4511
Fax: 612/854-3126
Established 1979

Howard Noziska	PE
----------------	----

Firm Personnel by Discipline	
Civil Engineers	3
Other Professional/Technical	1
Administrative	2
TOTAL	6

Structural design and façade detailing services for buildings, with extensive experience in masonry construction. Encompass provides preconstruction analysis of details and specifications for the purpose of preventing construction problems or failures. We offer inspection services to ensure compliance with contract documents or record conditions to facilitate problem analysis and repair.

Gran-A-Stone, Office, Warehouse and Stone Cutting Facility, St. Cloud, MN; ISD 196, Five-Year Facilities Maintenance Plan, Rosemount, MN; State Secondary Governmental Complex, Lansing, MI; MEECO, Office and Manufacturing Building, St. Louis, MO; Drummer Office Building, Troy, MI.

ENGINEERING DESIGN GROUP OF MINNESOTA, INC.

547 Lovell Avenue
Roseville, MN 55113
Tel/Fax: 612/481-9195
Cellular: 612/799-3850
Established 1989

Sean K. Hallet	PE
----------------	----

Firm Personnel by Discipline	
Structural Engineers	1
Other Professional/Technical	.5
TOTAL	1.5

Structural engineering of commercial, industrial, residential and curtainwall systems. Complete design and analysis of contract documents for building systems. Facility engineering for mono rail and crane rail systems. Non-destructive inspections of all structures. Heavy equipment foundation engineering. Explosive room and venting engineering. Structural design for products. Structural design of amusement rides.

First Bank Place, Minneapolis, MN; West PAC Industries, New Hope, MN; Harding High School, St. Paul, MN; Humboldt High School, St. Paul, MN; Group Health Incorporated, Maplewood, MN.

ENVIRONMENTAL SERVICES, INC.

7831 Glenroy Road, Ste. 340
Minneapolis, MN 55439
Tel: 612/831-4646
Fax: 612/831-6897
Established 1970

David L. Pederson	PE
R. Barry Whiteaker	PE

Firm Personnel by Discipline	
Structural Engineers	3
Other Professional/Technical	1
Administrative	1
TOTAL	5

Structural Engineering: finite element stress analysis of buildings, bridges, tanks, machinery and equipment. Vibration Engineering: vibration control and isolation design of buildings, foundations and equipment.

Electrical Engineering/Computer Science Building, University of Minnesota, Minneapolis, MN; Minnesota History Center, St. Paul, MN; Firing Impulse Simulator, Aberdeen Proving Grounds, MD; Hoffman LaRoche Multidisciplinary Science Building, Nutley, NJ; Ochsner Medical Research Building, New Orleans, LA.

ERICKSEN ELLISON and Associates Inc.

1455 Energy Park Drive
St. Paul, MN 55108
Tel: 612/641-0311
Fax: 612/641-0029
Established 1953

Bruce K. Johnson	PE
William F. Thiesse	PE
Richard A. Hoag	

Firm Personnel by Discipline	
Mechanical Engineers	6
Electrical Engineers	2
Other Professional/Technical	23
Administrative	4
TOTAL	35

EEA specializes in mechanical and electrical design including data and voice communications systems design for a variety of building types including public, institutional, educational, industrial, health care, office and commercial buildings. EEA has significant experience in design of libraries, schools, university facilities, data processing centers, manufacturing facilities for high-tech companies, clean rooms, aircraft engine test facilities and airport facilities including terminals, hangars and airfield lighting and navigational aids.

Minnesota Judicial Center, St. Paul, MN; U. S. Embassy, Santiago, Chile; Minnesota World Trade Center, St. Paul, MN; Weisman Art and Teaching Museum, University of Minnesota, Minneapolis, MN; Mounds Park Magnet School, St. Paul, MN.

ERICKSEN, ROED AND ASSOCIATES, INC.

300 First Avenue North, Ste. 420
Minneapolis, MN 55401
Tel: 612/342-9210
Fax: 612/342-9214
Established 1985

Alfred G. "Bud" Erickson	PE
Thomas E. Amundson	
James D. Roed	PE
Robert A. Curtis	PE

Firm Personnel by Discipline	
Structural Engineers	11
Other Professional/Technical	10
Administrative	3
TOTAL	24

Professional Structural Engineering services from planning through construction for corporate, commercial, educational, health care, industrial, sports facilities, parking ramps, aircraft engine test facilities, and restoration engineering. We provide construction documents, specifications, construction observation, existing building analysis reports and forensic engineering.

Target Center, Minneapolis, MN; University of Minnesota Basic Sciences, Minneapolis, MN; North Memorial Hospital Expansion, Minneapolis, MN; IDS Operations Center, Minneapolis, MN; AT&T Office Tower, Minneapolis, MN.

FOSS ASSOCIATES

810 4th Avenue South
PO Box 306
Moorhead, MN 56561
Tel: 218/236-1202
Fax: 218/236-4945
Established 1898

Bill Cowman	AIA
Willis Stelter	AIA
Paul Jacobson	PE
Charles Zeltinger	RLS

Firm Personnel by Discipline	
Civil Engineers	1.5
Structural Engineers	1
Land Surveyor	1
Architects	7
Other Professional/Technical	4
Administrative	1.5
TOTAL	16

Structural and civil engineering, architectural and surveying firm with full design and construction observation services for commercial, educational, recreational, institutional, research, health care and governmental agency clients, including feasibility studies, programming, master planning, plus existing building structural deficiency surveys, and specialty of surveying existing buildings for FEMA emergency shelter capabilities.

Discovery Jr. High School, Fargo, ND (Associated with HGA); ISD 152 School Building Program (1993), Moorhead, MN; Emergency/Admitting Additions, Douglas County Hospital, Alexandria, MN; Renovate Wards/1st and 2nd Floor/Building G #51, Dept. of Veteran Affairs Medical Center, St. Cloud, MN; Verndale School Building Program, Verndale, MN.

FOSTER, JACOBS & JOHNSON, INC.

345 Canal Park Drive, Suite 200
Duluth, MN 55802
Tel: 218/722-3060
Fax: 218/722-1931
Established 1922

James R. Johnson	PE
Charles F. Jacobs	PE

Firm Personnel by Discipline	
Mechanical Engineers	2
Electrical Engineers	2
Other Professional/Technical	3
Administrative	1.5
TOTAL	8.5

Mechanical and Electrical engineering services for all building types: Design of power, lighting, security and communication systems. Significant experience in design of energy conservative systems in new construction and retro-fit. Including energy management systems, daylighting and energy efficient lighting.

Duluth Entertainment and Convention Center, Duluth, MN; Aircraft Fire Fighting Training Facility, Duluth, MN; Natural Resources Research Institute, Duluth, MN; Douglas County Courthouse Renovation, Superior, WI; Food Service Renovation, Federal Correctional Institution, Sandstone, MN.

GAUSMAN & MOORE ASSOCIATES, INC.

1700 West Highway 36, Suite 700
Roseville, MN 55113
Tel: 612/639-9606
Fax: 612/639-9618
Established 1935

James W. Giefer	PE
James A. Keller	PE
D. Lane Hersey	PE
Adrian P. H. Keller	PE
Robert B. Full	PE

Firm Personnel by Discipline	
Mechanical Engineers	7
Electrical Engineers	5
Other Professional/Technical	35
Administrative	8
TOTAL	55

Services offered: Mechanical and electrical engineering, including design of HVAC, plumbing, fire protection, power distribution, security and audio/visual systems. Also specialty lighting design, computer network/voice network design, energy conservation, design/funding studies.

Timberwolves Target Center Arena, Minneapolis, MN; Eden Prairie Public Schools, Eden Prairie, MN; University of Minnesota Cancer Center, Minneapolis, MN; ShopKo Stores (several states); St. Croix Valley Hospital, St. Croix Falls, WI.

HALLBERG ASSOCIATES, INC.

2207 Third Street
White Bear Lake, MN 55110
Tel: 612/429-5655
Fax: 612/429-6215
Established 1984

Joe Hallberg	PE
--------------	----

Firm Personnel by Discipline	
Mechanical Engineers	5
Other Professional/Technical	8
Administrative	2
TOTAL	15

Mechanical System Design and Energy Conservation Services for schools, universities, churches, and office buildings.

Alexandria Junior High School, Alexandria, MN; St. Michael/Albertville Senior High School, St. Michael, MN; Burnside Elementary School, Red Wing, MN; Osakis Middle School, Osakis, MN; University of St. Thomas Central Heating Plant Renovations, St. Paul, MN.

HAMMEL GREEN AND ABRAHAMSON, INC. (HGA)

1201 Harmon Place
Minneapolis, MN 55403-1985
Tel: 612/332-3944
Fax: 612/332-9013
Established 1953

Harry R. Wilcox	PE
James M. Moravek	PE
Steve Bieniek	PE

Firm Personnel by Discipline	
Civil Engineers	5
Structural Engineers	12
Mechanical Engineers	17
Electrical Engineers	12
Architects	75
Other Professional/Technical	50
Administrative	40
TOTAL	211

HGA Engineering serves clients through the full-service A/E approach; in addition, it has its own independent client base. HGA engineers pride themselves on using creativity and innovation to develop cost-effective solutions to engineering challenges. Each discipline is highly capable and intent upon providing the best possible service to all clients.

Northern States Power Company, Eau Claire and La Crosse, WI; 3M, Corporate Administrative Building and Cafeteria, St. Paul, MN; IBM Campus, Rochester, MN; Metropolitan Waste Control Commission, Minneapolis, MN; Williams Arena/ Sports Pavilion, University of Minnesota, Minneapolis, MN.

HOLABIRD & ROOT

400 South Broadway Ave.
Rochester, MN 55904
Tel: 507/288-8088
Fax: 507/288-7311
Established 1880

Gregory B. Cook	AIA
Nicholas A. Bilandic	PE
Gerald Horn	AIA

Firm Personnel by Discipline	
Civil Engineers	2
Structural Engineers	7
Mechanical Engineers	17
Electrical Engineers	12
Architects	43
Other Professional/Technical	14
Administrative	30
TOTAL	125

Holabird & Root's Engineering staff works closely with clients to develop appropriate engineering solutions based on economy, efficiency, and durability. Client interests include heavy and light industrial manufacturing, institutional, and commercial facilities. The strength of Holabird & Root's engineering is the commitment to high quality design for optimum solutions.

Hardfile Assembly Cleanroom, Rochester, MN; Collegiate Science Building, St. Paul, MN; Energy Audits and Retrofits, Faribault, MN; Coating Application Cleanroom, Seymour, IN; Electronics Research and Development Lab, Rochester, MN.

KRECH, O'BRIEN, MUELLER & WASS, INC.

6115 Cahill Avenue
Inver Grove Heights, MN 55076
Tel: 612/451-4605
Fax: 612/451-0917
Established 1985

Jim Krech	PE
Dan O'Brien	AIA
Brady Mueller	AIA
Brian Wass	AIA

Firm Personnel by Discipline	
Structural Engineers	2
Architects	5
Other Professional/Technical	5
Administrative	1
TOTAL	13

Structural engineering for commercial, industrial, medical, retail, agri-facilities and residential projects. We offer Auto-CAD and have a current library of structural design software. Services are provided for architects, owners, contractors, and various agencies.

Catholic Charities, Minneapolis, MN; Mt. Airy Community Center, St. Paul, MN; NAHAN Printing Addition, St. Cloud, MN; CCH Assisted Living, Hudson, WI; First Federal Bank, Hudson, WI.

LARSON ENGINEERING OF MINNESOTA

3524 Labore Road
White Bear Lake, MN 55110
Tel: 612/481-9120
Fax: 612/481-9201
Established 1978

Wayne C. Larson	PE
Lee A. Granquist	PE

Firm Personnel by Discipline	
Civil Engineers	2
Structural Engineers	11
Other Professional/Technical	3
Administrative	3
TOTAL	19

Providing structural and civil engineering design services throughout Minnesota. Structural design of commercial, institutional, industrial, governmental and residential structures of all types. Structural evaluations and investigation of historic buildings and renovation projects. Special expertise in the structural design of curtainwall systems. Extensive experience in the structural design of schools and educational facilities.

Lowell Barnes Elementary School, Duluth, MN; St. Louis County Jail, Duluth, MN; First Bank Plaza Curtainwalls, Minneapolis, MN; Shoreview Public Library, Shoreview, MN; 1992 Winter Carnival Ice Palace, St. Paul, MN.

LHB ENGINEERS & ARCHITECTS

4600 West 77th Street, Suite 302
Edina, MN 55435
Tel: 612/831-8971
Fax: 612/831-0115
Established 1965

Lauren A. Larsen	PE
Harvey H. Harvala	PE
William D. Bennett	PE
David M. Sheedy	PE
Richard A. Carter	AIA

Firm Personnel by Discipline	
Civil Engineers	5
Structural Engineers	8
Mechanical Engineers	1
Architects	13
Other Professional/Technical	8
Administrative	12
TOTAL	47

LHB offers complete A/E services to industrial, governmental, commercial, and health care clients. Specific services include: structural, civil and mechanical engineering, surveying, architecture, landscape architecture, and interior design. Specialties include providing innovative solutions to building renovations, healthy building design, convenience stores, roadways, bridges, curtain walls, building investigations, and building condition documentation and monitoring.

Potlatch Caustic Unloading Facility, Cloquet, MN; Appliance Parts Building Renovation, Minneapolis, MN; Lake Superior Place Office Renovation, Duluth, MN; Waseca Industrial Road and Bridges, Duluth, MN; Hwy. 55/ Mendota Interchange Condition Survey, Mendota, MN.

LS ENGINEERS, INC.

200 South Main Street
LeSueur, MN 56058
Tel: 612/665-6255
Fax: 612/665-6818
Established 1988

Robert L. Sprengeler	PE
William P. Lehnertz	PE

Firm Personnel by Discipline	
Structural Engineers	5
Other Professional/Technical	2
Administrative	1
TOTAL	8

Structural engineering services for all building types in the areas of industrial, commercial, religious, institutional, residential, manufacturing, as well as specialized structures for water and wastewater plants. Full range of services including feasibility studies, investigations, construction documents, cost estimates, and field observations.

Mankato Middle School, Mankato, MN; Rochester Athletic Facility, Rochester, MN; MN Veterans Nursing Home, LaVerne, MN; Eden Prairie Community Center Addition, Eden Prairie, MN; Mankato State Utility Tunnel Addition, Mankato, MN.

MATTSON/MACDONALD, INC.

1516 West Lake Street
Minneapolis, MN 55408
Tel: 612/827-7825
Fax: 612/827-0805
Established 1983

Wesley C. Mattson	PE
David H. Macdonald	PE

Firm Personnel by Discipline	
Structural Engineers	4
Other Professional/Technical	2
Administrative	1
TOTAL	7

Mattson/Macdonald provides structural engineering services to architectural clients. Mattson/Macdonald has considerable experience with a broad range of project types: housing, retail, office, manufacturing, hospitals, churches, educational and governmental facilities.

Blue Earth Area High School, Blue Earth, MN; Mounds Park Academy Auditorium/Gymnasium, Maplewood, MN; National Computer Systems, Iowa City, Iowa; Mille Lacs Indian Museum, Mille Lacs Lake, MN; Mobilization and Training Equipment Building, Camp Ripley, MN.

MEYER, BORGMAN AND JOHNSON, INC.

810 Plymouth Building
Minneapolis, MN 55402
Tel: 612/338-0713
Fax: 612/337-5325
Established 1955

John E. Meyer	PE
Roland V. Johnson	PE
Richard E. Wiehle	
Daniel E. Murphy	
Michael J. Ramerth	PE

Firm Personnel by Discipline	
Structural Engineers	10
Other Professional/Technical	4
Administrative	2
TOTAL	16

Specializing in the design of structural systems and foundations for commercial, industrial, educational, institutional, performing arts and religious facilities. Services are rendered to architects, contractors and others for all types of projects which require structural engineering services.

Frederick Weisman Art Museum, University of Minnesota, Minneapolis, MN; Basilica of St. Mary Structural Renovation, Minneapolis, MN; Mankato Civic Center and Arena, Mankato, MN; West-Health Campus Clinic, Plymouth, MN; St. Jude Medical Carbon Facility, Little Canada, MN.

MICHAUD COOLEY ERICKSON

1200 Metropolitan Centre
333 South Seventh Street
Minneapolis, MN 55402
Tel: 612/339-4941
Fax: 612/339-8354
Established 1946

Dean Rafferty PE
Douglas Cooley PE
Monty Talbert, Jr.

Firm Personnel by Discipline	
Mechanical Engineers	54
Electrical Engineers	30
Administrative	18
TOTAL	102

MCE's engineers design mechanical, electrical, lighting and special systems for corporate, medical, data processing, high-tech R&D, retail, industrial, educational, public and commercial buildings. Examples of special systems include: security and surveillance, life/safety, audiovisual and sound reinforcement, paging and intercom, cable or master antenna television signal distribution.

First Bank Operations Center, St. Paul, MN; Norwest Corporation - Tenant Fit-up and Owner Representation; USSB Satellite Uplink Facility, Oakdale, MN; North Memorial Medical Center Expansion and Renovation, Robbinsdale, MN; New Federal Reserve Bank, Minneapolis, MN.

OPUS ARCHITECTS & ENGINEERS INC.

9900 Bren Road East
Minnetonka, MN 55343
Tel: 612/936-4433
Fax: 612/935-1366
Established 1990

Dennis Neu PE
John Albers AIA

Firm Personnel by Discipline	
Civil Engineers	1
Structural Engineers	7
Mechanical Engineers	1
Architects	28
Other Professional/Technical	13
Administrative	4
TOTAL	54

Architectural, interior, structural, civil and mechanical engineering services for design build projects. Projects include planning and design for offices, industrial, educational, institutional and special areas such as retail and sports facilities. To provide local service we have offices in Tampa, Chicago and Phoenix as well as Minneapolis.

ConAgra Corporate Campus, Omaha, NE; Labor and Industries Building, Olympia, WA; Mariucci Arena, Minneapolis, MN; 100 and 150 South 5th Street, Minneapolis, MN; Tucson Fiesta Retail Center, Tucson, AZ.

SCHOELL & MADSON, INC.

10580 Wazata Blvd., Suite 1
Minnetonka, MN 55305
Tel: 612/546-7601
Fax: 612/546-9065
Established 1956

James Orr PE
Kenneth Adolf PE
Theodore Kemna RLS

Firm Personnel by Discipline	
Civil Engineers	10
Other Engineers	7
Other Professional/Technical	11
Administrative	2
TOTAL	30

Complete wetlands identification, classification, and delineation; EAWs, EIS and natural resource services; environmental site assessments, regulatory compliance and permitting; civil engineering system studies, design and construction/contract administration; land surveying, topographic, construction, and as-built surveys; quality control soil testing.

Opus II Business Park, Minnetonka, MN; Norwest Properties, MN; Gaming Corporation of America, WI; Laurel Village, Minneapolis, MN; Restoration of Historic Main Street, Minneapolis, MN.

SETTER, LEACH & LINDSTROM

1100 Peavy Bldg.
2nd Avenue at 8th Street
Minneapolis, MN 55402
Tel: 612/338-8741
Fax: 612/338-4840
Established 1917

Richard Vasatka PE
George Theodore PE
Basil Filonowich AIA
John P. Litchy AIA
Kaare Faber PE

Firm Personnel by Discipline	
Civil Engineers	2
Structural Engineers	20
Mechanical Engineers	15
Electrical Engineers	15
Architects	30
Other Professional/Technical	10
Administrative	15
TOTAL	107

Setter, Leach & Lindstrom's design and consulting services include civil, structural, electrical (including specialty lighting and security) and mechanical (including HVAC and refrigeration) engineering. Engineering services have been provided for commercial, retail, industrial (principally distribution and processing facilities), educational and government buildings for over 75 years.

Minneapolis Convention Center, Minneapolis, MN; Edina Public Schools, Technology Design and Update, Edina, MN; US West, Automated Warehouse, New Brighton, MN and Denver, CO; Safeway, Inc., Food Distribution Center, Tracy, CA; North Star Steel, Plant Renovation, St. Paul, MN.

SHORT ELLIOTT HENDRICKSON INC. (SEH)

3535 Vadnais Center Drive
Saint Paul, MN 55110
Tel: 612/490-2000
Fax: 612/490-2150
Established 1927

Donald E. Lund PE
Gary R. Gray PE
Robert F. Pauly AIA
Richard A. Olsen AIA

Firm Personnel by Discipline	
Civil Engineers	42
Structural Engineers	6
Other Engineers	42
Architects	22
Other Professional/Technical	92
Administrative	46
TOTAL	240

SEH is a multidisciplinary A/E consulting firm offering services in Architecture, Civil Engineering, Environmental and Transportation. Specialty services include VRISM - Virtual Reality Computer Imaging and Public Involvement Programs.

Zumbro River Flood Control, Rochester, MN; Empire Waste-water Treatment Plant, Farmington, MN; Foley High School, Foley, MN; I-35E/University Sewer Separation Project, Saint Paul, MN; I-35E & County Road E Interchange and Bridge, Vadnais Heights, MN.

STRUCTURAL DESIGN ASSOCIATES, INC.

4401 85th Avenue North, Ste 202
Minneapolis, MN 55443
Tel: 612/493-5560
Fax: 612/493-5561
Established 1989

Gregory J. Duerr PE
Dorance J. Thorn

Firm Personnel by Discipline	
Structural Engineers	3
Other Professional/Technical	3
Administrative	1
TOTAL	7

SDA specializes in structural engineering services to include schematic, design and analysis, construction documents, specifications, bidding and negotiations, construction phase and post-construction services. SDA's experience includes educational, municipal, medical, commercial office and retail buildings, industrial and manufacturing plants, warehouses, and specialized industrial structures.

Monticello Elementary School, Monticello, MN; Big Lake High School, Big Lake, MN; Andersen Corporation Building 14S, Bayport, MN; Public Utilities Building, Brooklyn Park, MN; Sanofi (Kallestad) Diagnostic, Chaska, MN.

WENCK ASSOCIATES, INC.

1800 Pioneer Creek Center
Maple Plain, MN 55359
Tel: 612/479-4200
Fax: 612/479-4242
Established 1985

Norman C. Wenck	PE
Joseph J. Grabowski	RHSP
Michael A. Panzer	PE
Paul D. Josephson	PE

Firm Personnel by Discipline	
Civil Engineers	12
Structural Engineers	1
Other Engineers	1
Other Professional/Technical	45
Administrative	11
TOTAL	70

Environmental engineering services including site development, drainage systems, site assessments, soil/groundwater contamination investigation and cleanup design, solid/hazardous waste management, landfill design, wastewater treatment, UST management, industrial environmental compliance, stormwater management, lake restoration, and wetland management.

Twin Cities Army Ammunition Plant, New Brighton, MN; Minnehaha Creek Watershed District, Minnetonka, MN; St. Louis County, Hallock, MN; American Crystal Sugar, East Grand Forks, Crookston, MN and Fargo, ND; Elf Atochem, Blooming Prairie, MN.

WENZEL ENGINEERING, INC.

10100 Morgan Avenue S.
Bloomington, MN 55431
Tel: 612/888-6516
Fax: 612/888-2587
Established 1990

Lowell E. Wenzel	PE
------------------	----

Firm Personnel by Discipline	
Civil Engineers	.5
Structural Engineers	3.5
Administrative	1
TOTAL	5

WEI is a structural and civil engineering firm dedicated to meeting the unique goals and requirements of each client. WEI's expertise encompasses new facilities, renovations, additions to existing buildings and investigating buildings experiencing structural distress for many building types: commercial, industrial, public, retail, education, religious and healthcare.

I20 Railroad Bridge, Shreveport, LA; Dulles International Airport, Washington, D.C.; Excelsior Elementary School, Excelsior, MN; White Bear Lake United Methodist Church, White Bear Lake, MN; United Health Care Corp., Golden Valley, MN.

WOLD ARCHITECTS AND ENGINEERS

6 West Fifth Street
St. Paul, MN 55102
Tel: 612/227-7773
Fax: 612/223-5646
Established 1968

Michael Cox	AIA
Norman Glewwe	AIA
Kevin Sullivan	AIA
Craig Anding	PE

Firm Personnel by Discipline	
Mechanical Engineers	6
Electrical Engineers	5
Architects	33
Other Professional/Technical	5
Administrative	12
TOTAL	61

Wold Engineering Capabilities: HVAC system design, plumbing system design, fire protection systems engineering, energy management engineering, voice/data communications systems, media technologies, design and specification of primary/secondary electrical systems, and security system design.

Lakeville High School, Lakeville, MN; Blackhawk Middle School, Eagan, MN; Wright-Hennepin Electrical Cooperative Engineering and Maintenance Facility, Rockford, MN; McLeod County Administrative and Justice Center Addition, Glencoe, MN; United Power Association Headquarters, Elk River, MN.

YAGGY COLBY ASSOCIATES

717 Third Avenue SE
Rochester, MN 55904
Tel: 507/288-6464
Fax: 507/288-5058
Established 1970

Ronald V. Yaggy	PE
Donald R. Borcharding	RLS, PE
Christopher W. Colby	AIA
Ronald L. Fiscus	ASLA

Firm Personnel by Discipline	
Civil Engineers	7
Other Engineers	2
Architects	6
Other Professional/Technical	36
Administrative	11
TOTAL	62

Yaggy Colby Associates focuses on providing prompt, personalized municipal, land development, transportation and geotechnical engineering services throughout the Upper Midwest. The firm's specialties within these services include municipal streets, department of transportation projects, residential and commercial development, water systems and municipal utilities. Other services provided by the firm include architecture, urban design, community planning, landscape architecture and surveying.

Northwest Plaza Shopping Center, Rochester, MN; Streetscaping Projects in Rochester, Stewartville, Lake City and New Ulm, MN; Chester Woods Regional Park, Olmsted County, MN; Apache Mall, Traffic Study, Parking Lot Redesign and Expansion, Site and Utility Work, Rochester, MN.

ROBERT YOURZAK & ASSOCIATES, INC.

7320 Gallagher Drive, Suite 325
Minneapolis, MN 55435
Tel: 612/831-2235
Established 1982

Robert J. Yourzak	PE
Douglas G. Wolfangle	PE
Dennis F. Satterlee	PE

Firm Personnel by Discipline	
Civil Engineers	2
Structural Engineers	1
Mechanical Engineers	2
Electrical Engineers	.5
Other Engineers	.5
Architects	1
Other Professional/Technical	5
Administrative	1
TOTAL	13

Complete program/project/construction management services from concept to occupation for new facilities and those undergoing expansion and renovation. Services include: project direction, administration, planning, scheduling, estimating, budgeting, life cycle costing, team member requirements, progress control, computer utilization, value engineering, construction management, procurement and contract administration.

Northwest Airlines New Maintenance Base, Programming and Conceptual Design Phase, Duluth, MN - Program Manager.

WISCONSIN CONSULTING ENGINEERING FIRM

JACOBSON ENGINEERING, INC.

1323 West Main Street
Madison, WI 53590
Tel: 608/837-7822
Fax: 608/837-4067

Curtis L. Jacobson	PE
Mark Larson	
Jason Dale	

Firm Personnel by Discipline	
Electrical Engineers	2
Other Engineers	2
Other Professional/Technical	4
Administrative	4
TOTAL	12

Clients include city, state and federal governments, universities, private businesses, hospitals, toll interexchange carriers, telecommunications manufacturing companies and telephone utilities within the U.S. and overseas. They seek our services to evaluate the role of telecommunications systems in their businesses and to develop plans and operational procedures to maximize their networks.

Fail Telecommunications Corporation, Bay Springs, MS; Chickamauga Telephone Company, Chickamauga, GA; GTE North, Sun Prairie, WI

sketches

Continued from page 9

CADD. It is revolutionary in the efficiencies and accuracies it creates.

Firms with CADD have a technological edge that saves time, money and effort. Clients benefit because documents are more accurate and building upgrades and modifications are completed more efficiently. CADD makes it easy to store and retrieve building data. When large and complex facilities like hospitals are on a CADD data base, building renovations and additions are simplified. Three dimensional and automation software packages provide us with the ability to inform and educate clients and market our services more effectively.

To be sure, there has been some resistance and CADD has passed some of us by. But the process is now proven and the future will demand it. Our office is fully computerized with the addition of word processing and financial-management programs. The three systems are fully networked so they can communicate freely. Indeed, the potential of this media is unlimited.

You've seen architectural styles fall in and out of fashion over the years. What are the expectations clients have regarding design? How do you meet and exceed their desires?

We don't follow any particular architectural style at BWBR—we create good design and quality architecture for specific uses. Our designs reflect the image clients wish to portray, the characteristics of the site and the purpose of the building. We exceed expectations by putting a high priority on design. Most clients understand that good design "sells." We also promote quality construction technologies and methods by showing that they do, in fact, produce life-cycle savings.

Good design doesn't have to exceed the budget or be considered an add-on. Design belongs side-by-side with the more practical aspects of building systems and, ultimately, building function. **AM**

previews

Continued from page 13

**Art in Everyday Life:
The Goldstein Legacy
Goldstein Gallery
U of Minnesota
St. Paul Campus
Through Jan. 30**

The Goldstein Gallery's 100th exhibition honors former professors and gallery namesakes Harriet and Vetta Goldstein. Their tenure lasted from 1913 to 1949 at the University of Minnesota, where they started the art section in Home Economics, now the Department of Design, Housing and Apparel. The two believed that students learned best from direct contact with well-designed objects. Their vision of art and design is illustrated through personal memorabilia, including decorative arts, textiles, letters, teaching materials and their book *Art in Everyday Life* (1925).

For more information, call (612) 624-7434.

**Paul Rudolph: Explorations in
Modern Architecture, 1976-1993
National Institute for
Architectural Education
New York City
Through Feb. 12**

Nearly 400 models, drawings, photographs and furnishings from 15 completed buildings and projects will chronicle architect Paul Rudolph's career since the mid-1970s. Projects include office buildings, private residences, multiuse complexes and a church. Rudolph will create approximately 60 wall-sized panels to hold displays. The show's curator, Donald

Albrecht, says the exhibition will demonstrate Rudolph's interpretation of modernism as a flexible medium that encompasses a wide range of individual approaches.

For more information, call (212) 924-7000.

**Opening Exhibits
Frederick R. Weisman
Art Museum
U of Minnesota
Minneapolis Campus
Through March 6**

Three exhibits highlight the opening of the new Frederick R. Weisman Art Museum, designed by Frank O. Gehry of Santa Monica, Calif., with executive architects Meyer, Scherer & Rockcastle of Minneapolis. Portions of the museum's permanent collection are displayed in *A New View: The Collections of the University of Minnesota*. Augmenting this is *Works from the Frederick R. Weisman Art Foundation*. This contains contemporary pieces, many of which will be donated to the museum. In addition, *An Architect's Eye*, features work by artists who have influenced Gehry, who also designed a portion of the opening show.

For more information, call (612) 625-9678 or (612) 588-0728.

**In a Classical Vein:
Works from the Permanent
Collection
Whitney Museum of
American Art
New York City
Through April 3**

This exhibit explores the classical spirit in 20th-century American art. Included are paintings, sculptures, prints and drawings by more than 100 artists as the exhibit reconsiders classical characteristics in American art. Emphasis is on scale derived from human proportions and the importance of balance, symmetry, order and harmony.

For more information, call (212) 570-3633.

Minnesota A to Z
Minnesota History Center
St. Paul
Ongoing

Minnesota A to Z showcases the Society's extensive collections. Arranged according to the 26 letters of the alphabet, the exhibit explores topics from *Animals*, *Baseball* and *Canoe* to *eXtravagance*, *Yankee Girl* and below *Zero*. In this ongoing show, new letters will come in to further highlight the collection.

For more information, call (612) 296-6126. **AM**

up close

Continued from page 15

ing the natural-gas capitol of the world, the nearest art gallery was many miles away in Kansas City.

Unlike many visually oriented people, King doesn't reveal recollections of curating her childhood bedroom or painting her summer days away. "I didn't learn about the visual arts until I was a junior in college when I stumbled upon the art museum at the University of Kansas," King says.

Even though she describes that discovery as transformative, King completed her undergraduate degree in microbiology. King asks rhetorically, "What do undergraduates know?"

For five years King found herself working in a laboratory for scientists, who mocked her appreciation of art. "Everyone in the lab thought art was frivolous, which only strengthened my resolve." After taking "the grand tour of Europe" with her husband, the couple moved to Minneapolis. Bored and back in the lab, King applied for the master's program in art history, was accepted, and never wore a white lab coat again.

Continued on next page

Coming

MAR/APR

Focus: Landscape Architecture
Environmentally Sensitive Design

plus the Directory of Landscape Architecture Firms

For advertising information call Judith 612/338-6763.

t h a n k s

Support

t h a n k s

our

t h a n k s

Advertisers

t h a n k s

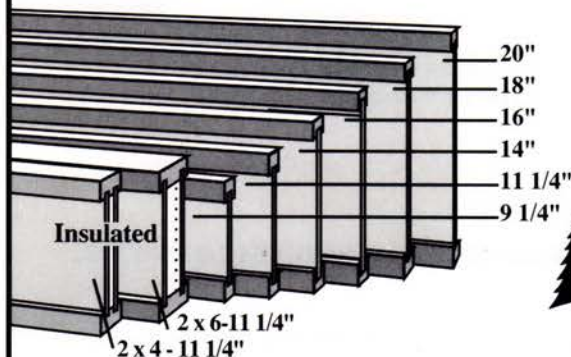
SUPERIOR WOOD SYSTEMS Products

Pre-Engineered to Produce the Ultimate in Structural Capacity & Versatility
Environmentally Efficient • Time Saving • Cost Effective

SWI-Joists

Available in standard lengths up to 48'

- **Lightweight** - Can be handled by a single worker, easily cut with standard job-site tools
- **Dimensionally Stable**
- **No twisting, warping or splitting**
- **Built with No Crown**
- **Less Waste** - Much less than solid wood
- **Easy Boring** of holes in 7/16" thick web



Insulated Headers

2 x 4 and 2 x 6 Wall Construction

- **Pre-Insulated**
- **Cost Savings** - Eliminate the need for on-site insulating
- **Dimensionally Stable** - No shimming required for tight fits.
- **Lightweight** - Can be handled by a single worker, easily cut with standard job-site tools
- **Less Waste** - Much less than solid wood.
- **Energy Efficient** - Provide an R-value of 20 (after sheathing & sheet-rocking)

SW-II Headers are made with Machine Stress Rated lumber and Oriented Strand Board. They are manufactured to strict quality control standards, with PFS Corp. acting as third party inspectors. SW-II Headers have code acceptance by ICBO, BOCA, State of Wisconsin & HUD.

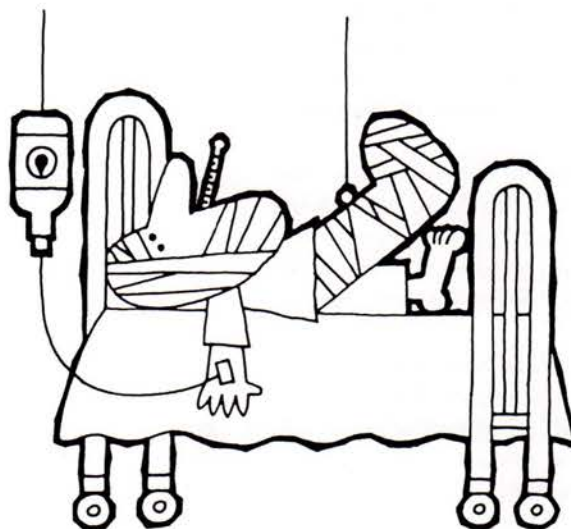
SUPERIOR WOOD SYSTEMS[®]

PO Box 1208 • 1301 Garfield Ave. • Superior, WI 54880
715-392-1822 • FAX 715-392-3484 •
Call for the nearest factory representative.

When Coverage Counts . . .

AIA Minnesota Insurance Trustees' Endorsed Programs Include:

- **Workers' Compensation Program for "Design Professionals Only"**
- **Life and Health Insurance for Minnesota architects only**



Please call Kelley Cunningham or Joni Wilken at
Association Administrators & Consultants, Inc.
1-800-854-0491 toll free



AA&C.
Putting People First.

"Art showed me that life was about more than just the everyday," King says. "I discovered that art could affect lives, whereas I had previously thought that the written word was the only vehicle of expression for a profound experience."

In graduate school King studied the London Art Union, a "middle-class, do-good group," that believed art and architecture could lift people out of poverty. Before the industrial revolution and the rise of progressive movements, museums were the domain of the rich, who feared that such modern ideas as extended hours, docents and labels for works of art would lead to mass vandalism. In keeping with her graduate studies, King views university museums as a part of the populist movement. Some 100 years after the London Art Union, museums like the Weisman are very different places from their predecessors—accessible and inclusive.

"I envision the Weisman as a drop-in center, where students can stop by for 15 to 20 minutes," King says. "I'm glad that we're not just a destination site, but a building that people will walk by everyday. I didn't want to be on the edge of campus. I see our location as a way to break down the barrier between art and the people."

With visitors streaming into an architectural gem to view an impressive collection of 20th-century art—plus a notable cache of work by Marsden Hartley and Charles Beiderman, as well as pieces from the Weisman collection—the museum is the envy of the Twin Cities' cultural community. In some cases that sentiment has turned to jealousy, with detractors suggesting that the area can't absorb another museum. King disagrees.

"If we do a good job, we'll provide a mature audience for the arts in the community," King explains. "People underestimate how important art education can be in a student's academic training. It's our goal that every student experiences the museum at least once during his [or her] time on campus. The museum will provide students with both

the intellectual and physical accessibility to the arts. As you know, this building is difficult to ignore. Nobody's ever going to say again that they didn't know the University had an art museum. In fact, the building proclaims itself as a work of art in and of itself. It won't take for everyone, but it does give students the same access to art as they have to basketball. Having those kinds of experiences will increase the pool of patrons for other art museums."

In the museum world, careers are made by groundbreaking exhibitions and capital campaigns, but legacies are established through buildings. King has secured a place for herself in the cultural history of this cityscape.

"This is a once-in-a-lifetime deal," King admits. "How many museum directors get to work with Frank Gehry?"

From where she sits, King is on the top of the world, looking on the jewel in the crown of her tenure. When asked about her next move, King reminds us, "I don't have a life plan."

David Anger is a writer living in Minneapolis. **AM**

Minnesota travelogue: Rochester

Continued from page 43

Completing the civic district on the downtown side of the river will be a new public library, 600-car parking ramp, and skyway system linking the district to downtown. Designed by The Leonard Parker Associates, the \$20.3 million project will double the size of Rochester's library. Leonard Parker says the library will be "very much in the modernist mode."

An unusual feature, according to project architect Francis Bulbulian, will be a dramatic entrance canopy cantilevered over a drive-in book drop. Completion is expected in fall 1995.

Private development also continues in Rochester. The newly com-



NewMech
Mechanical Construction
Services
Since 1921

Congratulations to
the University of Minnesota
and
its Athletic Department for the
Mariucci Hockey Arena.

NewMech Companies is
proud of our roles in helping
ensure the comfort and
safety of Minnesota hockey fans
into the twenty-first century.

(612) 645-0451

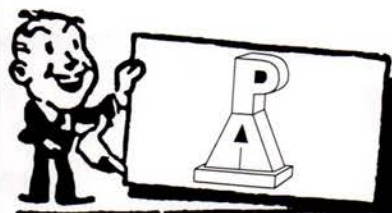
PIERSON AGENCY

Representing 3-D Artists & Art

To view our portfolio of
works by local and national
sculptors, please contact

Al Pierson at

(612) 649-1021.



Telephone: (612)•649•1021

PRESERVATION PLAN ON IT

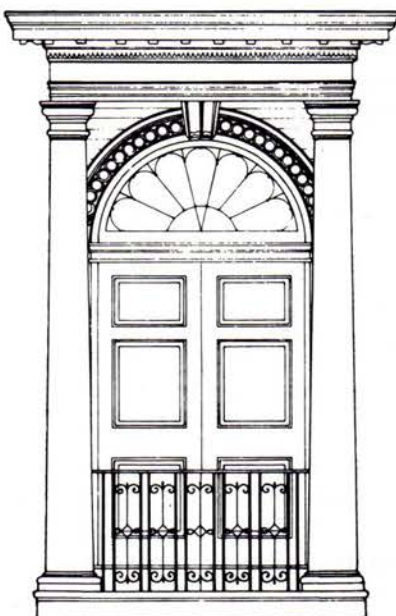
Planning on restoring a house, saving a landmark, reviving your neighborhood?

Gain a wealth of experience and help preserve our historic and architectural heritage. Join the National Trust for Historic Preservation.

Make preservation a blueprint for the future.

Write:

National Trust for Historic Preservation
Department PA
1785 Massachusetts Ave., N.W.
Washington, D.C. 20036



pleted Rochester Athletic Club has attracted many area residents. Located near the junction of highways 52 and 14, this new sports-and-health facility sprawls over 34 acres with nine indoor tennis courts (plus plans for eight outdoors), three swimming pools, a full-service restaurant, special children's section, racquetball and basketball courts and many other features. The architect is Hervey LaVoie, a Denver architect who specializes in health-club design.

For the visitor driving around this hilly city, Rochester's historic homes hold great appeal. One such residence located at the top of "Pill Hill" (an elegant neighborhood near Saint Marys where many physicians live) is the Plummer House, a 3-story English tudor of limestone, stucco and half-timber designed by Ellerbe in 1924.

Also in Rochester are three Frank Lloyd Wright houses, including a Usonian house. Just outside Rochester is one of the most famous historic homes in Minnesota, Mayowood, the original home of Drs. Charles H. and Charles W. Mayo. The 40-room gray concrete mansion with its many terraces, fountains and pavilions, perches on a wooded hillside overlooking the Zumbro River Valley. Completed in 1911, the house is on the National Register of Historic Places.

Meanwhile, other new architecture goes up at a regular pace. Over the years, IBM has tripled the square footage of its campus, repeating the profile of the original Saarinen design. Health-care work also goes on continuously in Rochester. Saint Marys Hospital recently completed another expansion with the Sister Generose Gervais Building for the psychiatry and psychology by Henningson, Durham & Richardson, Inc., of Omaha, Neb. Next to this is a contemplative Peace Garden, another asset for Rochester's many visitors to enjoy.

Bette Hammel is a Minneapolis writer. **AM**

r e p r i n t s

Order AM Reprints

r e p r i n t s

And Get The Most For Your Marketing Dollar

r e p r i n t s

Custom Formatting Available

r e p r i n t s

For More Information Call

r e p r i n t s

Peter Rand, AIA, Publisher

r e p r i n t s

612/338-6763

r e p r i n t s

Credits

(We encourage you to support the following architects, consultants and suppliers.)

Project: Ted Mann Concert Hall

Location: University of Minnesota, Minneapolis
 Client: University of Minnesota
 Architects: Hammel Green and Abrahamson, Inc.
 Principal-in-charge: Curt Green
 Project managers: Greg Haley, John Justus
 Project architect: Peter Graffunder, Becky Greco
 Project designer: Tom Johnson
 Project team: Jamie Milne-Rojek, Bill Kokotovich, Rey Custer, Sonya Larson, Alicia Creagh-Duncan
 Engineers: Hammel Green and Abrahamson, Inc.
 Structural engineer: John Bauch
 Electrical engineer: Terry Tangedahl
 Mechanical engineer: Kermit Olson
 Contractor: Bor-Son
 Interior design: (HGA) Roxanne Lange, Michelle Klein
 Landscape architect: (HGA) Tom Oslund
 Theater acoustical and audio consultant: Artec Consultants
 Acoustic and audio consultant (construction phase): Acoustic Dimensions
 Theater consultant (construction phase): Schuler and Shook
 Photographer: Shin and Joel Koyama
 Windows: Harmon Contract Kawneer/Heat Mirror Glazing
 Roofing: Ballasted EPDM, Carlisle
 Stone/brick: Bor-Son
 Flooring systems/materials: Lee's Commercial "Faculty IV" and Prince St. "Sisal"
 Ceiling systems/materials: Plaster/Mulcahy
 Casework/woodwork: Ron's Cabinets, Inc.
 Furniture systems: Accessible-Seating-KI "Versa" chair
 Acoustical fabric wall panels: Knoll
 Textiles "Jasmine"
 Auditorium seating: Irwin
 Theater equipment: SECOA

Project: Mariucci Arena

Location: University of Minnesota, Minneapolis
 Client: University of Minnesota
 Architects: Opus Architects & Engineers/Graham-Edmunds
 Principal-in-charge: John Albers/Barry Graham
 Project manager: Craig Larson, Jeff Kemp
 Project architect: Larry Everson
 Project designer: John Albers/Barry Graham
 Project team: Roger Mifek, Chuck O'Connell, Jim Fantuz, Bob Morgan, Jeff Magnuson, Barb Elton, John Lewis, Tony Dib, Scott Christiansen
 Hockey arena program: David Knoblauch
 Structural engineers: Opus Architects & Engineers
 Mechanical engineers: Opus Architects & Engineers, New Mech & Dunham Associates
 Electrical engineers: O.S.M.
 Contractor: Opus Corporation
 Interior design: Opus Architects & Engineers

Landscape architect: Damon Farber Associates
 Ice rink refrigeration/dasher boards: Commercial Refrigeration Systems
 Windows: Gateway ACG
 Lighting: General Electric
 Roofing: B.L. Dalsin Roofing
 Brick: Corning-Donohue Inc.
 Structural concrete: Bladholm Brothers Co., Fabcon, Inc.
 Flooring systems/materials: Tuflex Skate Tile
 Structural steel: L.L. LeJeune Steel Co., Western Steel Erectors
 Arena seating: Interkal
 Architectural precast concrete: Kroeger Precast

Project: Frederick R. Weisman Art Museum

Location: University of Minnesota, Minneapolis
 Owner: University of Minnesota
 Architects: Frank O. Gehry & Associates
 Design principal: Frank O. Gehry, FAIA
 Managing principals: Robert G. Hale, Jr., AIA, Randy Jefferson, AIA
 Project designer: Edwin Chan
 Project architect: Victoria Jenkins
 Project team: Matt Fineout, David Gastrau, Richard Rosa
 Executive architects: Meyer, Scherer & Rockcastle, Ltd.
 Managing principal: Jeffrey Scherer, AIA
 Project architect: John Cook, AIA
 Project team: Greg Abnet, Joan Soranno, David Zenk, Pat Fitzgerald, Tim Carlson, Kelly Roemhildt, Jim Larson, Mark Fausner
 Structural engineers: Meyer, Borgman & Johnson, Inc.
 Contractor: Sheehy Construction Company
 Mechanical: Egan & Sons, Inc.
 Electrical: Electric Service Company
 Sheet Metal: A. Zahner Sheet Metal Company
 Windows: Duratherm Window Corporation
 Lighting: Linear Lighting, LSI, Macro
 Shade system: Mecho Shade System
 Roofing: Goodyear Roofing
 Brick: Belden Brick Co.
 Concrete: Cemstone Products Company
 Structural Steel: American Structural Metals, Western Steel Erection, Inc., Listul Industries, Inc.
 Plaster/Drywall: Minuti Ogle Co., Inc.
 Painting: Wasche Interiors, Inc.
 Wood floor: Harris Tarkett
 Plywood casework: Ron's Cabinets, Aaron Carlson Company
 Furniture systems: Herman Miller
 Testing: American Engineering and Testing
 Mechanical/Electrical engineers: Ericksen, Ellison & Associates
 Civil engineers: Progressive Consulting Engineers
 Landscape architects: Damon Farber Associates
 Signage: Yamamoto-Moss, Inc.
 Cost consultant: Ted Jage & Associates
 Specification consultant: Jack Lindeman
 Lighting: Paul Helms Associates
 Parking/traffic consultant: Strager Roscoe Fausch
 Model Photographer: Joshua White
 Photographer: Don F. Wong

Advertising Index

AIA Documents, p. 16
 Albinson, p. 44
 Fred G. Anderson, Cov. II
 Architectural Consultants, Inc., pp. 12, 44 (CETCO)
 Association Administrators & Consultants, p. 54
 Coming Soon, p. 11
 Consulting Engineers Council of Minnesota, pp. 4, 44
 Directory of Consulting Engineering Firms, pp. 45-51
 Engineering Design Group, p. 44
 Ericksen Ellison and Associates, p. 4
 W. L. Hall Co. p. 8
 Fabcon, pp. 17, 18
 Damon Farber Associates, p. 10
 Leonard, Street and Deinard, p. 10
 Minnesota Architects, Cov. IV
 Minnesota Ceramic Tile Industry, Cov. III
 Minnesota Drywall Council, p. 10
 Minnesota Masonry Institute, p. 14
 NewMech, p. 55
 Pierson Agency, p. 55
 Principle Fixture and Millwork, p. 2
 St. Croix Press, p. 6
 Superior Wood Systems Products, p. 54
 Wells Concrete Products, p. 1

AM

lost minnesota



T.B. Walker residence and art gallery, 803-807 Hennepin Avenue, Minneapolis.

The Upper Midwest's finest public-art gallery sprang out of a downtown-Minneapolis residence and out of the mind of the art-collecting lumberman who lived there.

T.B. Walker, who moved to Minneapolis from Ohio in 1862 and made a fortune in lumber and real estate, built a house for his large family at the corner of Eighth Street and Hennepin Avenue in 1876. At about the same time, he began collecting art, starting with a few canvases, sculptures and prints to decorate his new home.

From those modest beginnings, Walker's art collection grew during 40 years into an immense hoarding of collectible objects of all kinds. He bought portraits and landscapes,

works by such masters as Rembrandt, Anthony Van Dyke, Frans Hals, Jean Corot, Henri Rousseau and Joseph Turner. He acquired an unmatched variety of Asian pottery, porcelains and jade carvings. Musical instruments, ancient Greek vases, lamps, coins, agates, sea shells, paintings of American Indians, southwestern archaeological artifacts, antique furniture and old bronze pieces also entered the Walker collection.

The Walker residence, a large but-not-monumental chateau-style structure, quickly ran out of space for this behemoth collection. In 1879 he built an art gallery between the residence and the carriage house, furnishing it with a skylight and paintings. Anyone could visit and enjoy art at no charge.

Two more galleries became necessary in 1892. In the style of the period, the walls of these art spaces supported a crowd of masterworks, while decorative furniture and sculpture filled the corners and heavy rugs muffled footsteps on the wooden floors.

By 1916, when the Walker family moved to the larger expanses of a mansion on Lowry Hill, 14 rooms of the Hennepin Avenue house were crammed with art. The lumberman established his own art foundation, which opened as the Walker Art Gallery on the present site of Walker Art Center in 1927.

The old Walker residence fell in 1920 to make room for the State Theater, which today is part of LaSalle Plaza. *Jack El-Hai*

Every profession has its tools.



But it's the professionals behind the tools who make the difference.

When you get right down to it, almost anybody can throw a baseball. Or play an instrument. Or even hold a trowel. But when these tools are in the hands of professionals, the difference in quality becomes apparent. That's why you should award your contract to a tile contractor who employs union tile setters. When you do, you'll be engaging professionals whose job management experience and craft skills will protect you from costly job failures. They'll provide tile surfaces of lasting beauty that will help make your building more durable, fireproof, more attractive to tenants and maintenance free. And over the life of your building they'll save you money. Why not call on the best: Union Tile Contractors and Craftsmen. They're ready for you.

THE SIGN OF A TILE PRO[®]

Nobody builds like union contractors and craftsmen.

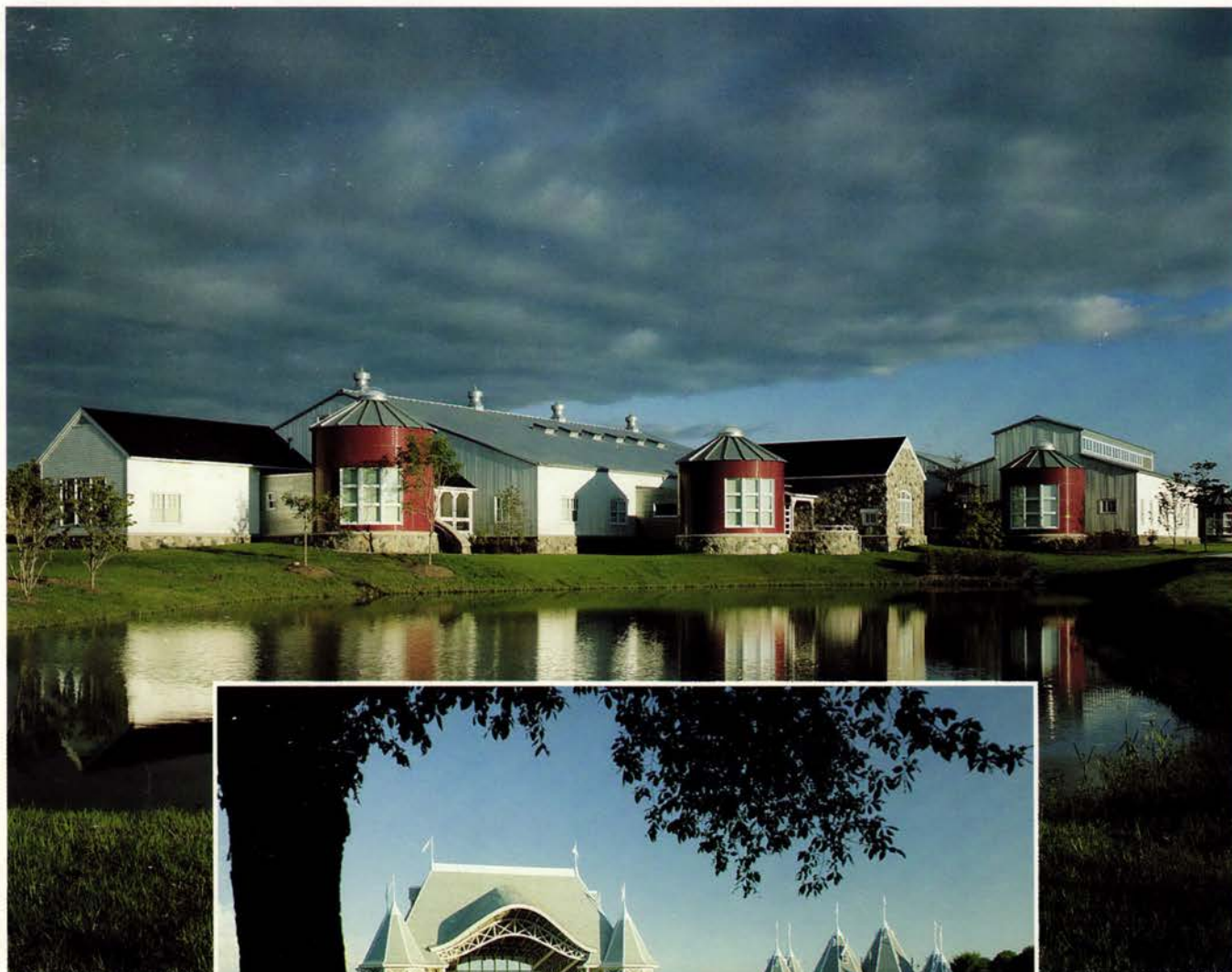
International Masonry Institute • 823 15th Street, N.W., Washington, D.C. 20005 • 202/783-3908



Contact Your Guildset Ceramic Tile Contractor For A Professional Installation

Minnesota Ceramic Tile Industry

Minnesota Architects



In the last several years, Minnesota architects have won over 200 prestigious awards here and around the world. This excellence has been recognized in the design of facilities ranging from single family residences to large corporate headquarters.

Keep us in mind.

Proven design leadership

AIA Minnesota, A Society of the American Institute of Architects
275 Market Street, Ste. 54, Minneapolis, MN 55405, 612/338-6763 FAX 612/338-7981