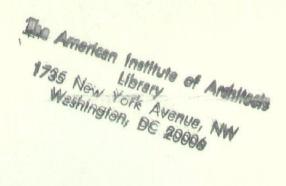
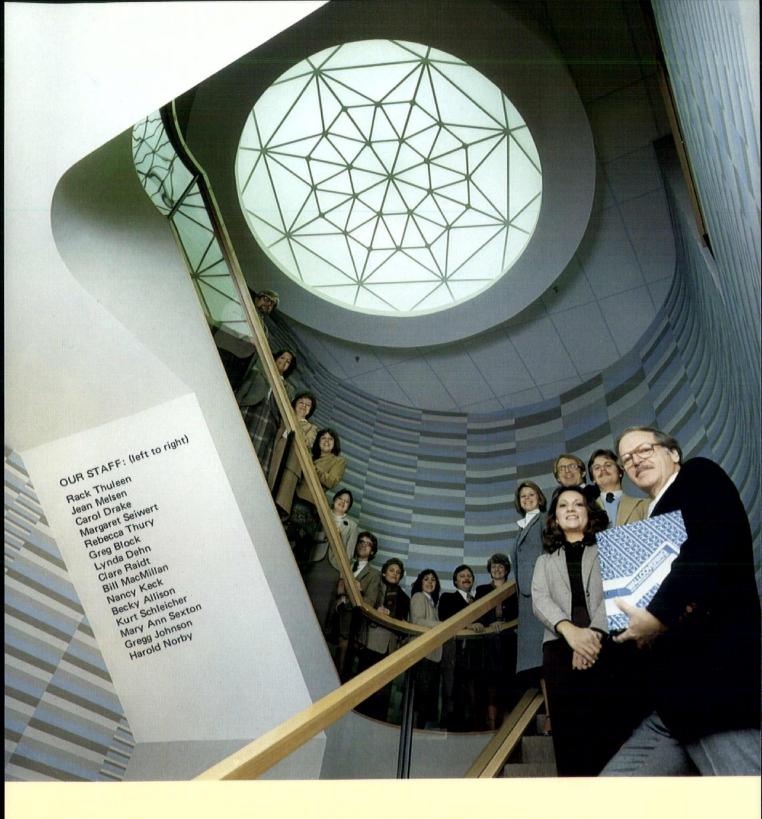


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The Walker Art Center's Martin and Mildred Friedman



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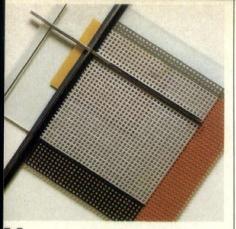
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De Stijl: The Walker's brilliantly mounted show on the post-WWI Dutch art movement.



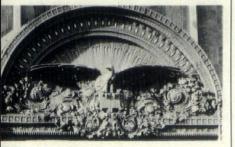
34 The applied humanism of Herman Miller



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A JOURNAL OF DESIGN AND CREATIVE LIVING March/April, 1982 Vol. 8 No. 1

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On the cover: The Walker Art Center's Martin and "Mickey" Friedman: Risktakers who score another hit with the De Stijl show. Photograph: George Heinrich.

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# MINNESOTA RETAINAGE LAW AMENDED

Effective on and after July 1, 1980, retainage provisions of public contracts entered into by the State of Minnesota or any of its political subdivisions are amended as follows:

An amount not to exceed **5%** of the value of the contract may be retained. Such retainage may be reduced or eliminated if work progresses satisfactorily.

Contractor may deposit certain securities with the public contracting agency, or in a bank or trust company, in lieu of cash retainage.

Interest on the securities shall be paid to the contractor as it accrues.

THE PIPING INDUSTRY BELIEVES THE PROVISIONS OF THIS AMENDMENT TO PUBLIC LAW HAVE MERIT, AND CAN SERVE AS A MODEL FOR PRIVATE AS WELL AS PUBLIC CONTRACTS.

For more details on other provisions and exceptions, call or write us for a free copy of Chapter 464 Laws of Minnesota 1980.

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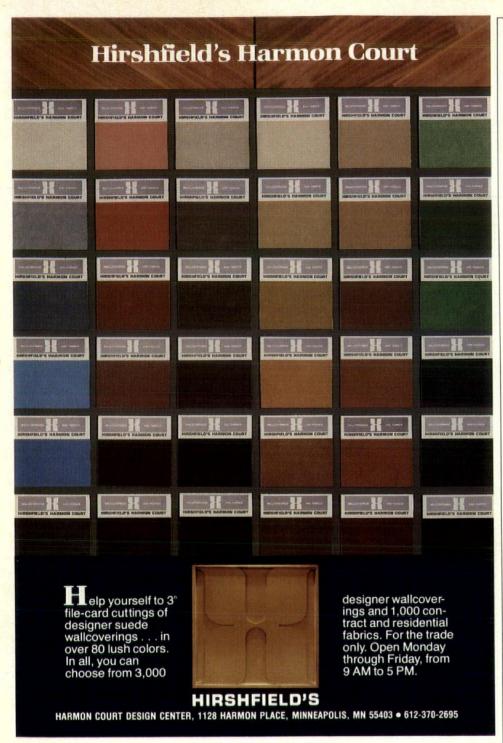
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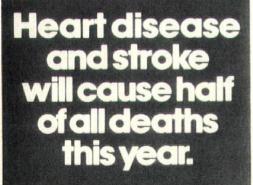
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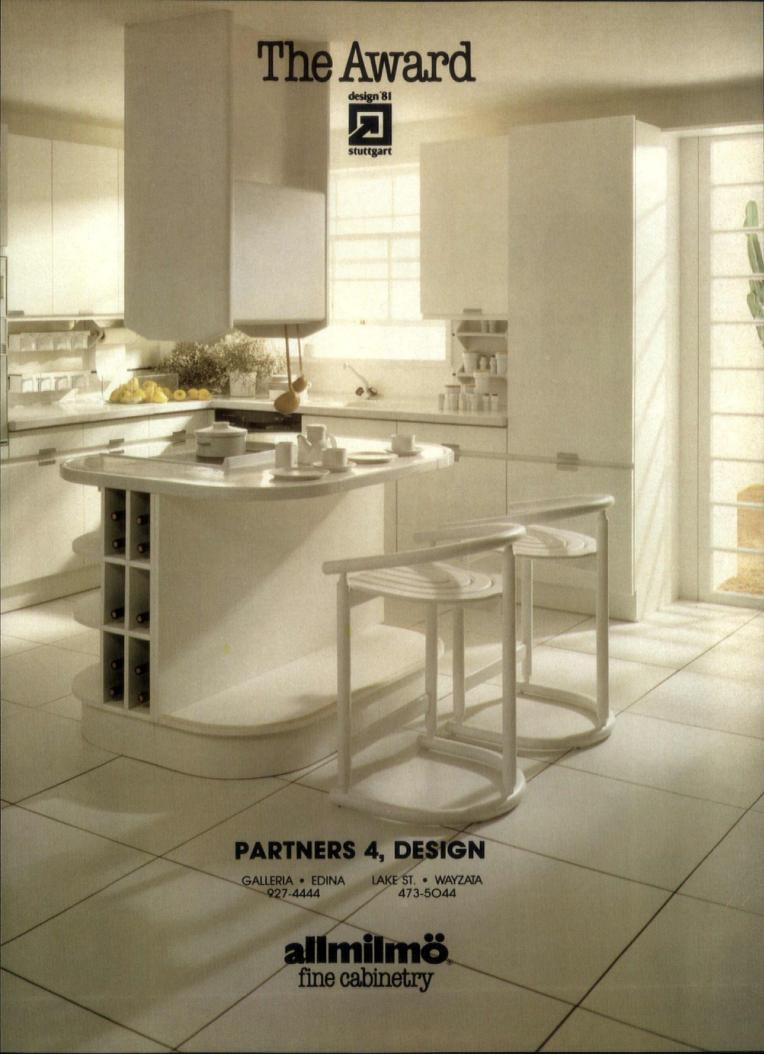
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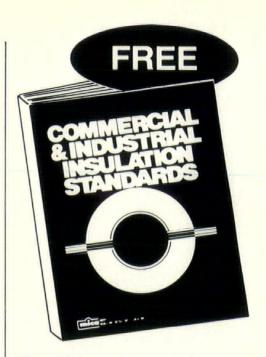
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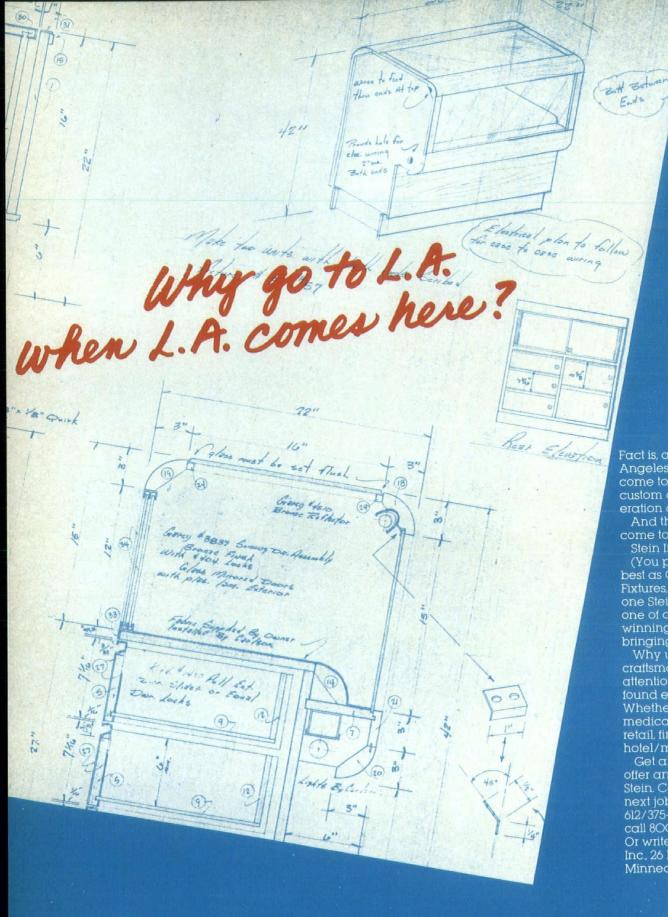
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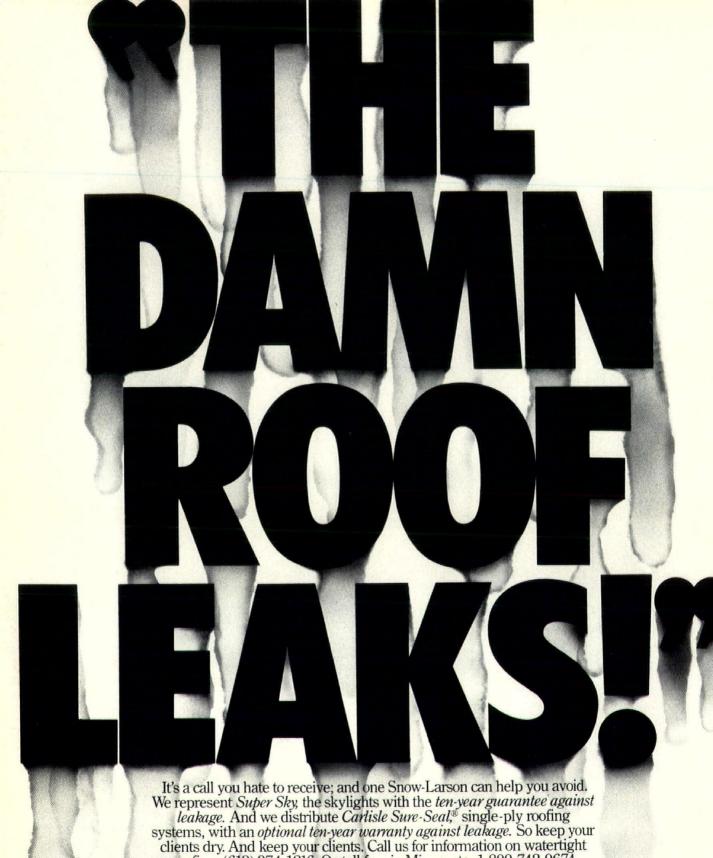


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### news, notes & opinions

### AM wins best-magazine award for 1982 in national competition

Word arrived at press time that Architecture Minnesota has been awarded the 1982 Gold Circle Award for magazines by the American Society of Association Executives. Entries were judged "for content, writing, design, photography and illustrations."

The A.S.A.E. is one of the nation's giant service organizations, with a membership of roughly 10,000 business and professional associations. Entrants in the Gold Circle Award competition are not required, however, to be A.S.A.E. members.

AM will be presented with a trophy at the A.S.A.E. Communications Section Annual Meeting on March 15 at the New York Hilton.



### Competition brings De Stijl downtown

To call attention to one of the most significant exhibitions organized by the Walker Art Center, "De Stijl, 1917–1931, Visions of Utopia" (Jan. 31–March 28, 1982), a downtown Minneapolis skyway has been transformed to look as if designed by artists of the De Stijl group. Opaque panels of theatrical gels have been set into the skyway windows to create patterns of red, yellow and blue light inside and out. Entitled "Skyway Boogie-Woogie," the design recalls Piet Mondrian's famous painting "Broadway Boogie-Woogie."

Co-sponsored by Northwestern National Bank and the Walker Art Center, the De Stijl-inspired skyway is the product of a juried competition open to architecture and graphic design students attending the University of Minnesota or the Minneapolis College of Art and





Design (MCAD). In the interdisciplinary spirit of De Stijl, eleven teams drawn from several areas of study created proposals for a skyway that would reflect and reinterpret De Stijl ideas. Each design also had to be simple enough to be installed and removed by students, meet fire regulations and city codes, and cost less than \$7,000. The winning design was submitted by John Jurewitz, a University architecture student, and Brenda Dane and Don Bergh, graphic design students at MCAD. Their advisor was Brad Hokanson, assistant professor of design at MCAD and a practicing Minneapolis architect.

The design competition was juried by: Kinji Akagawa, artist and assistant professor, MCAD; Mildred S. Friedman, *Design Quarterly* editor and Walker Art Center curator; William Houseman, editor of *AM*; Kay Lockhart, AIA, associate professor, School of Architecture, University of Minnesota; and Peter Seitz, designer and associate professor, MCAD.

Panels covering the skyway windows darken the interior, intensifying the colorful patterns on the floor and walls created by the red, blue and yellow theatrical gels (top and top left).

Three-dimensional projecting colored planes of the runnerup proposal (above) are reminiscent of De Stijl architect Gerrit Rietveld's work. Submitted by University of Minnesota architecture students Denise deVictoria, Paul Emmons, Lee Meyer, David Packard, and Christine Zagaria.



### Whether It's Something Old or Something New, REDWOOD'S VERSATILITY WILL AMAZE YOU!

PROJECT: Single Family Remodel of Seventy-Year-Old Minnetonka, Minnesota Farm House

SPECIFIER: Marv Anderson Remodeling PRODUCT: Ruf Rider Select Knotty 6' Redwood Bevel Siding from Palco. Decks are Construction Heart Grade Redwood. WHY REDWOOD?

Norm Soderman, Exec. Vice-President Mary Anderson Construction

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'They saw our ad in a local magazine which featured an updated kitchen and called for an appointment. When they came to our Remodeling office at 8700 Lyndale Ave. S., they made the siding decision as they pulled into our parking lot. Our office is sided in Ruf Rider 10" Super Thick Butt Select Knotty Redwood Bevel Siding. What better sales tool is there than that.

PROJECT: Parade of Homes Entry, 1981. Minneapolis

SPECIFIER: Mary Anderson Construction PRODUCT: Ruf Rider 8" Select Knotty Redwood Rabbeted Bevel Siding from Palco.

#### WHY REDWOOD?

Gene Gabrielson, Project Supervisor

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#### First YMCA designed for mixed-use project to be built

The first YMCA designed as part of an interconnected, mixed-use development is about to be built in St. Paul. On February 2, a bond sale passed to allow construction of the parking ramp and YMCA portion of "Block 40," located across from Mears Park on 6th Street, in Lowertown. The YMCA will own the building but not the land beneath it.

The facility itself will be typical of most YMCAs, but its location will offer unique amenities. A member could, potentially, live in one part of "Block 40," work in another portion, exercise at the YMCA, buy food in the marketplace, go to one of the six movie theaters and never leave the building. If he or she does venture across the street, three skywavs will be available.

The 64,000 s.f. YMCA will have five levels: a small street entrance lobby open to the second floor where the reception desk and offices will be located; a pool and equal-sized locker rooms for men and women on the third floor; the gym and weight rooms on the fourth; and racquetball courts and a track on the fifth. Joggers will be able to look out on one side to the atrium marketplace below. The architect for the YMCA as well as for the remaining development on the block is Miller Hanson Westerbeck Bell of Minneapolis.

Dave Anderson, project architect for the YMCA, said the outside will be brick with deep-set strip and arched windows, similar to older buildings nearby. Members of the old St. Paul "Y" will recognize the ornamented entrance arch in its new street-level entrance location.

The budget, not including furnishings, is \$4 million. This relatively low figure is possible, Anderson said, because the YMCA will have only one exterior wall and will share a heating plant with other structures on the site. It is scheduled to open August, 1983.

#### **University tests** capturing summer heat for colder months

The first stage of an experiment is underway at the University of Minnesota to test the feasibility of saving summer waste heat for use in colder

University engineers and geologists are withdrawing groundwater from an aquifer, heating it to 100 C (212 F) with a steam boiler, then returning it to the aquifer at another site. The rock

Continued on page 58

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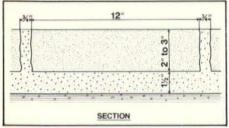
### Not-so-pedestrian plazas for pedestrians.

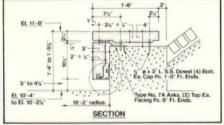


Architect: Joe Karr & Associates, Chicago, IL Sturr Young, Associate Architect, Oak Park, IL



Architect: Murphy Levy Wurman, Philadelphia, PA Project Architect: Vincent Maiello, Philadelphia, PA





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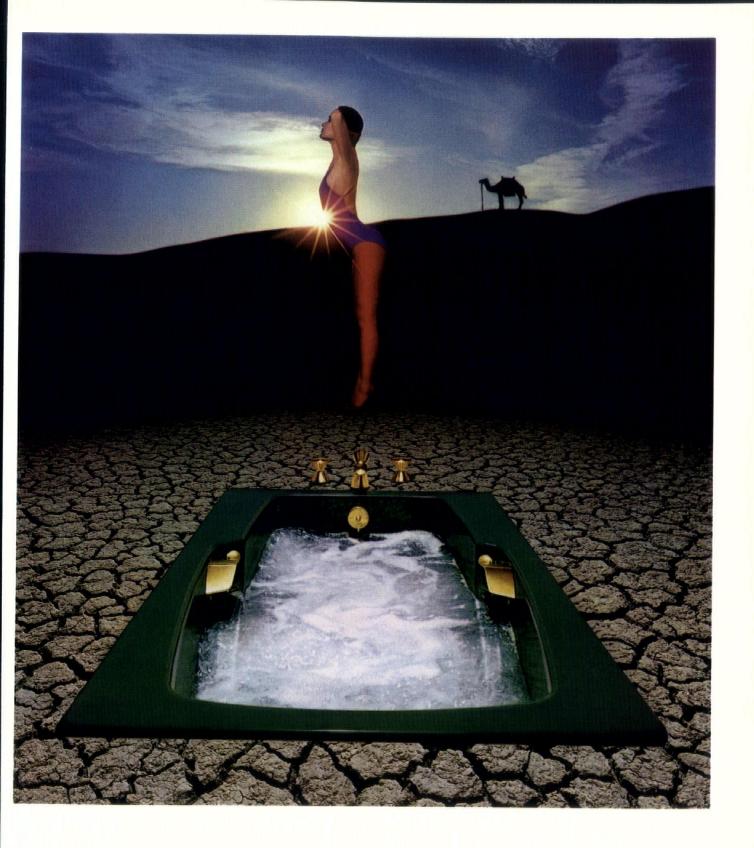
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# Go Straight To Cronstroms When Your Designs Call For Curves



Lake Superior Maritime Museum, Architect: Architectural Resources, Inc., Hibbing, MN; Army Corps of Engineers



Even though energy efficiency is the watchword in public buildings today, that doesn't mean you have to shackle yourself to time worn designs. Instead, consider the benefits of Cronstroms CTS thermal barrier system. Its energy-saving design eliminates metal-to-metal contact in curved or straight designs. And that means no frost or condensation, even at temperatures of -30°F. Of course, that's something you'd expect

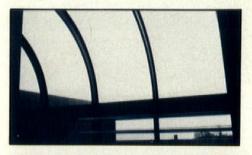
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At the Lake Superior Maritime Museum located on Minnesota's waterfront in Duluth, a location buffeted by winter's bone-chilling gale force winds, the architect specified Cronstroms CTS thermal barrier energy saving walls and windows for a new addition linking two sections. Notice the bent mullions of the upper section.

You'll find another distinctive CTS design at First Federal Savings and Loan where curved mullions frame the glass entry doors.

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First Federal Savings and Loan, Architect: Gene Hickey & Associates, Minneapolis, MN



### Carlisle membrane solves problem of "reskinning" Yale "Whale"



NEW HAVEN, CT—Four steel cables suspended from a center concrete arch give the intricate 5,500-square foot roof of Yale University's David S. Ingalls Hockey Rink the appearance of a colossal whale swimming across the campus.

Unfortunately, for the last three years, the "whale" wasn't the only one doing the swimming. Because of a leaky roof, Yale Hockey team members many times had to battle water puddles as well as their opponents.

F.J. Dahill Co., Inc., a local roofing, structural remodeling contractor, was chosen to roof the whale with an EPDM membrane manufactured by the Carlisle Tire & Rubber Co., Carlisle, PA.

The most difficult phase of the job was to develop a staging system of ladders which would conform to the roof's irregular shape and allow the crews to work.

To support the ladders, Dahill crews nailed off 2 x 4 boards between the 23,000 lineal feet of battens covering

the roof's surface. Two ladders were placed so that approximately 170 rolls of Carlisle EPDM, ranging from 10 to 103 feet long, could be placed in the 4½-foot gap between battens.

The EPDM sheets were loose laid over the old neoprene material and nailed at six-inch intervals at the base of each batten. A 12-inch piece of elastoform was then secured over the battens. When a row was finished, one of the ladders was moved and the process started all over.

Flashing was secured by inserting a metal band in the large reglet joints at the top arch and bottom wall and covering it with a sealant.

Old neoprene on the 6-foot x 360-foot concrete deck at the roof's bottom was stripped and replaced with EPDM that was completely sealed with Carlisle adhesive.







### scanning the media

Being a collection of hard facts and appealing notions gleaned from the pages of periodicals you'd read if you had the time

### Sensory Junkies

JUST AROUND THE NEIGHBOR-HOOD CORNER—MIND-BLOWING MOVIE HOUSES. Screenwriter Richard Chapman predicts in Technology Review (February/March) that the movie-going experience will soon lift you to unprecedented heights of super-stimulation. Through far-out technology and the architecture to accommodate it, a new breed of theater designers hope to beat back the competition from cable TV and home video. One of the front-running theater design firms is called Quantum Leap, which plans to establish its first "theater of the future" within 18 months. It will feature an 80-foot curved screen-floor to ceiling and twoand-a-half times the size of the average .35-millimeter screen—and a sound system incorporating 340 speakers "with computerized signalrouting, so the audience will be able to experience a sound coming from a distance and follow it as it moves around the theater." Why? Because, according to Quantum Leap's architect-trained Jerome Armstrong, "We are at the beginning of an era of sensory junkies.'

### **Primitive Posh**

NEVER HAS SO MUCH BEEN SPENT TO HOUSE TRIBAL ART. Commenting on the newly opened Michael C. Rockefeller Wing of the Metropolitan Museum of Art, designed by Kevin Roche/ John Dinkeloo & Associates, Time's respected art critic Robert Hughes reports that the architects handled "nearly an acre of elegant, muted space with such tact that the architecture never overwhelms or interferes with what it displays." Of special note is the meticulous care (and money) invested in creating an indoor environment that would ensure the integrity of such perishable organic materials in tribal art objects as nair, wicker, wood and feathers. Of the Rockefeller collection of mostly primiive art from New Guinea, Melanesia and Africa, Hughes concludes, "We end in the position of enjoying, for disnterested reasons, a whole range of art

whose main impulse was not aesthetic at all, but magical. Our pleasure, one may be sure, would have seemed ludicrous to the people who made these objects. What they wanted to evoke was awe, fear and the sense of power—the rawest musculature of the social contract, twitching, reflexively before the image."

### **Crested Butte Update**

THROUGH PLUCK AND P.R., A TINY (POPULATION 1,000) COLO-RADO TOWN HAS BESTED A GIANT MINING COMPANY. A four-year battle to save its molybdenum-rich Red Lady Mountain from being literally demolished by AMAX has made Crested Butte famous as a giant killer. The town's planners were at the forefront of what has been called "the archetypal American struggle." Planning director Myles Rademan writes, "We have jockeyed with AMAX for four years, but our differences remain irreconcilable. We might negotiate, mediate and mitigate, but the hard fact remains that towns as well as environments have finite resiliency. Somewhere the line must be drawn, and for those of us in Crested Butte the line is here." Along the way, the bibliography of national media stories about this David-Goliath story has grown to five full pages.

Always P.R.-wise, the planning department has even produced a 54-page book offering guidelines for builders titled *Design Guidelines for Architecture* and Landscape Architecture. It may be bought for \$7 from the Crested Butte Planning Department, Box 444, Crested Butte, CO 81224. By phone: (303) 349-5338.

#### **Moral Fiber**

WASTE SLATE AND MARBLE CHIPS ARE NOW BEING CONVERTED TO AN INSULATION MATERIAL AS GOOD AS ASBESTOS—AND SAFE TO BOOT. When the Bureau of Mines asked ceramics engineer John MacKenzie in 1979 to see what he and his UCLA students could make of the waste chips from stonecutting operations in Vermont, it had no preconceived ideas of

what, if anything, the project woulc yield. The answer is now at hand, cording to Discover (March). Mac-Kenzie's group found that certain n tures of slate and marble chips wou melt at temperatures significantly lo wer than those required for making conmercial-grade glass fibers. Why not see if this otherwise useless raw materia might be used to make glass wool fe or insulation, the group asked itself. Bfathoming the workings of a cottoncandy machine, of all things, they f ound its principle could be adapted to the manufacture of a glass wool capable serving as insulation every bit as go od as asbestos. Unlike asbestos, a mater -ial known to cause lung cancer, the ma ble-slate residue is harmless. Speaki ng of these new fibers (the Bureau of Mines has applied for a patent) Mac Kenzie says, "We arrived at them b scientific intuition, and now we wan know why they are so good. If we can figure that out, perhaps we could make them even better."

### **Mental States**

HOW DO AMERICANS FEEL ABO UT
THEMSELVES AND THEIR LOT IN
LIFE? Psychology Today (February), in a
story titled "Regional States of Mino","
reports the results—actually, a comp
dium of results from a variety of
sources but most notably from the University of Michigan's Institute of So
ial
Research—of its look at public attitudes
in regions of the U.S. Each region's
citizenry was rated for its collective
"outlook on life," and its views of
"stress," "positive feelings," "negative
feelings," "personal competence," and
"overall satisfaction."

The region designated West Nort

Central (Minnesota, the Dakotas, Nebraska, Iowa, Kansas and Missouri)

tied for "highest psychological well being"—surprisingly with the tier of states immediately below it: the essentially Sunbelt group of Texas, Louis ana, Arkansas and Oklahoma.

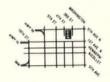
The study characterizes the Minnesota-affiliated region in this way: "The people living here, in what could be

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### MONARCH STUDIOS, INC.:

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### editorial

### What Would We Be Without Our Museums?

Impoverished—that's what we'd be. The whole ot of us.

The thought struck us midway in the editing of this issue that we were indebted, remarkably, to three of the Twin Cities' great museums for a rich bounty of words and pictures herein. In the order of their appearance, they are: the Walker Art Center, the Minneapolis Institute of Art, and the Minnesota Museum of Art.

The Walker, it need hardly be noted, is certifiably one of the world's preeminent champions of the want-garde in all aspects of creative expression. But it is something more. Increasingly, its exhibitions have demonstrated the fraternal, if not always sentimental, kinship that links all artists. None has dramatized this linkage with greater persuasion than the Walker's current, simply brilliant mounting of "De Stijl: 1917–1931, Visions of Utopia." AM's evocation of this purest of all modern movements in no way serves as an armchair equivalent of the show itself. We suggest you read what we have to say about De Stijl, then by all means trot yourself to the Walker for a first-hand encounter with these few artists, mostly Dutch and rather full of themselves, who made such a profound impact on modern art.

Our second institutional debt is owed the Minneapolis Institute of Art, whose manifold resources include its Director of Educational Programs, Kate Johnson. She is also an art historian of distinction, a member of the Minneapolis Historic Preservation Commission and, I am particularly happy to note, a

frequent contributor to this publication. We have given her article in this issue the title, "No-Nonsense Preservation," because she has written so commandingly on why architects would do well, as a matter of professional self-interest, to play strictly by the rules in designing buildings for historic district sites.

Across the Mississippi at this moment, the Minnesota Museum of Art has set the cavernous interior of the Landmark Center in St. Paul to ringing with the purposeful strokes of hammer and saw. There, in full scale, an architectural treat awaits you. It is a replication of Frank Lloyd Wright's "\$5,000 Fireproof House," originally designed by the master for the Ladies Home Journal in 1906. In addition to the opportunity of witnessing how much \$5,000 once bought, you may enjoy a wide-ranging graphics treatment of "The Prairie School," that redoubtable band of architects who early this century turned their backs on Europe and created an idiom of both strength and beauty for their Midwest clients. Of a number of delightful essays commissioned by the Minnesota Museum for "The Prairie School" exhibition, AM is pleased to offer in these pages Alan K. Lathrop's piece on how Louis Sullivan, Purcell and Elmslie and other Prairie Schoolmates sold small-town bankers on hiring them to design handsome structures in Owatonna, Winona, and other points east and west. (They did it by agreeing to the puniest of fees.)

We are indebted to the Walker, the Minneapolis Institute and the Minnesota Museum, not only for enriching our pages this issue but more importantly for lifting the spirits, and the sights, of our whole community.

William Houseman Editor

### **DE STIJL**

The Walker Art Center has done it again. If only the art world's crème de la crème previously had a clear idea of what the post-World War I Dutch "Style" movement was all about, the Walker's handsomely mounted show guarantees that henceforth even little kids will have no excuse for not knowing.

De Stijl is perhaps art history's supreme instance of less being patently more. At its birth in the Netherlands 65 years ago, "The Style" consisted of just two ingredients; rectangular in the style of t dients: rectangular planes and the primary colors (plus black, white and gray). Yet in the half century since this leanest of aesthetic orders ceased to exist as a movement, it has continued to exercise an unwaning influence on the basic direction of modern art. And lest you doubt this, go to the Walker and see for yourself that De Stijl, having

be-

Mondrian, had long sinc declared the easel painter independence of architect (or anyone else); and a disillusioned Theo van Doesburg, on finding that three of De Stijl's most important architects — J. J. P. Oud, Gerrit Rietveld and Jan Wils — had gone over to the rival Bauhaus



gun life as less, is verifiably more. It was in 1917 that the De move ment's identity was set in a journal founded by a Dutch artist-polemi-cist named Theo van Doesburg, who was so tautly wired as to imagine that his Utopian vision would be realized in a three-dimensional triumph of artist, architect, furniture designer chitect, furniture designer and graphics artist—all working interstitially in the real world. Moreover, van Doesburg entertained the notion that once the logic of De Stijl's abstract purity had asserted itself, life's dark and discordant aspects would wither and die. Such would wither and die. Such a bubble would surely burst, and by 1923 it had. The movement's superstar, Piet

display
their
work,
said, "I
have completely given
up the desire to
work toward a
collective goal."

Yet if Utopia is by definition unattainable, then De Stijl accomplished something ever more meaningful: it esta

lished a relevant connection between abstract art and human experience. Rietveld's famous red/blue chair (left), for example, is less an object to be sat on than a con-struction to be con-templated. "Estemplated. "Es-sentially," Martin Filler, one of a dozen writers whose essays ap.

of an artist who first learned cabinetmaking in his father's shop, then became a gifted architect.

One of the younger De Stijl artists, César Domela, who is still living and working in Paris, fashioned an elegant construction (right) from glass, painted glass, painted metal, chrome-plated brass and painted wood. Dominating this page is Mondrian's diamond-shaped "Red Yellow Blue," which was painted in 1925, a time when his estrangement from De Stijl was complete. In fact, this was the case, except for van Doesburg, with

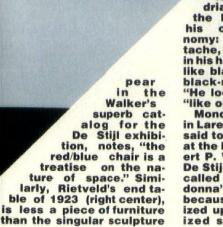
all major founding figures: the architects Rietveld, Wils, and Oud, sculp-tor Georges Vantongerloo, painter Bart van der Leck and designer Vilmus Hus-zar. Monzar. I (shown below

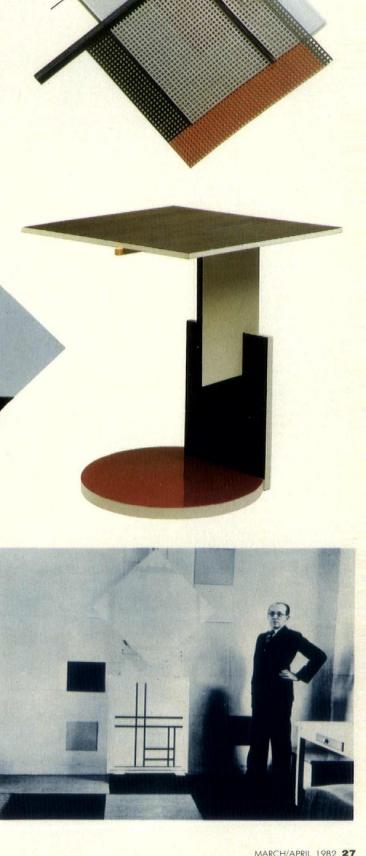
right

with

paintings) remained, of course the consummate Neoplastic man. great pho photographer Andre Kertesz, who hung out at Mondrian's Paris atelier in the late 20s, remembers is orthogonal physiognomy: a rectangular moustache, a precise center part in his hair, a bow tie and eyes like black coals behind his black-rimmed spectacles. "He looked," says Kertèsz, "like one of his paintings."

Mondrian, as a young man in Laren, the Netherlands, is said to have cut a mean rug at the local dance hall. Rob-ert P. Welsh records in the ert P. Weish records in the De Stijl catalog that he was called "the dancing madonna" by his fellow artists because of his "spiritualized upward gaze and stylized steps." It would be





wrong to think this paragon of purity danced just for the fun of it, though. No, he had to honor the "jasband" in very square prose: music, he opined, should be played not on instruments but composer-controlled devices. As the Duke might say, some Style.

To realize a famous house in The Style, Rietveld had to outfox the local codes

On the outskirts of the Dutch city of Utrecht stands a small architectural monument to De Stijl. It is a collaborative product of Gerrit Rietveld and an artist named Mrs. Truus Schröder-Schräder with whom he worked in the early 20s. It was built for Mrs. Schröder and, remarkably, she still occupies it today. To a palp-able degree, the Schröder house epitomizes the De Stijl philosophy: it is a three-dimensional composition of orthogonal (right-angle) planes and primary colors, outside and inside. Attached to the end unit of a row of conventional threestory brick houses, its sculptured precision sharply distinguishes it from its neighbors. "Understandably," Rietveld recalled the year before his death in 1964, "it was very hard to square this with the local building code. That's why, on the ground floor, the house presents a rather traditional layout . . . but the level upstairs we simply dubbed an attic, and there we realized the house we intended to make." By which Rietveld meant an interior based on open planning more remi-niscent of Frank Lloyd Wright than his European col-leagues. Apart from fixed partitions enclosing the bathroom and stairwell, the upper floor spaces were defined by sliding panels which were designed to offer various options for adapting the interior to changing needs.

True to the beau ideal of De Stijl, primary colors (plus, of course, gray, black and white) are incorporated in a painterly manner; and, judg-ing from a Reitveld rendering (opposite below), the interior at one point was intended to express an even closer marriage of the easel painter's art and architecture.



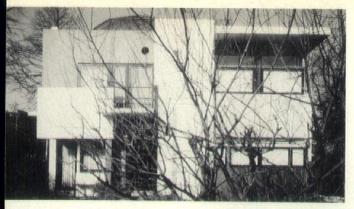








The Schröder house exterior uses primary colors in both structural and decorative members as thin but powerful bands tying geometric planes together. In living area (left), free-standing blue chimney provides color wallop. Corner detailing of windows allows for unobstructed view when units are open. White chair near first-floor kitchen is a variation of 1923 Berlin chair.

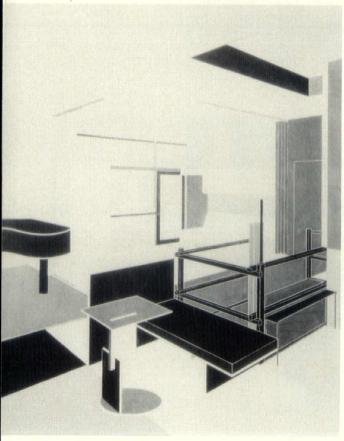


testored in 1974, the house expreses De Stijl values in inear color punctuation of gray and white stucco planes. Built-in furniture, as well as open plan, owe some credit to rank Lloyd Wright, although

heavy color emphasis in both the actual interior and Rietveld's rendering (below) are strictly De Stijl.

Wrote the Soviet artist El Lissitzky of Rietveld and the Schröder house, "He was not able routinely to draw out a plan. He does all with models, feeling things with his hands; and therefore his product is not abstract."





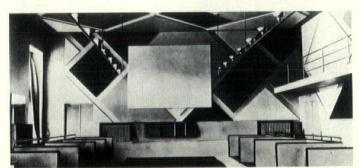
### From right to 45° angles—first in a flower room, then a cafe

In the early years of The Style, the movement's founding eight or nine members were governed by a singular proscription critics have dubbed "canonical orthogonality;" by which they mean simply that De Stijl art had to consist of color planes formed by horizontal and vertical lines. A rigor-ous corollary held that, insomuch as art should not be somuch as art should not be held in thrall by architec-ture, these color planes and horizontals and verticals must not overlap from one solid plane to another. These precepts, in purest appli-cation, were the essence of the movement's most formidable theoretician, Piet Mondrian. He called this essence "Neoplasticism."

As editor of *De Stijl* magazine and thus Neoplastiguardian-spokescism's man, Theo van Doesburg gamely defended the found-ing philosophy—until he himself joined the defectors. Two fateful commis-sions turned him around. One was the opportunity to design a flower room in 1924 for a villa at Hyères owned by the Comte de Noailles. The other involved the redecorating of a number of rooms in the Cafe Aubette in 1926 as a joint design ven-ture with Jean Arp and So-phie Taeuber-Arp. Most significant of these rooms, from the viewpoint of De Stijl philosophy, was the cinema-dance hall. It was van Doesburg's job to do, and, as with the earlier flower room, he abandoned Neoplasticism to pursue a heretical theory known as "Elementarism." He went diagonal. That is, he devised color planes for the cinema-dance hall's interiors to meet the ceilings and walls at 45° angles. (This departure may be fully appreciated today by visitors to the Walker, where this historic room has been established.) sentially reproduced.) His idea was to achieve a "counter-movement"

through his diagonal color planes that would "oppose to the material room in three dimensions a super-mate-rial and pictorial diagonal space." Critics agree that while the Aubette's interiors were a commercial flop (the owners started making changes almost immediately), they remain a significant exploration in modern

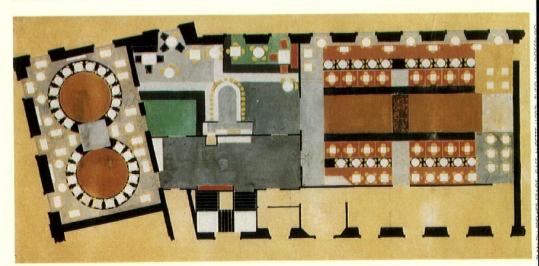




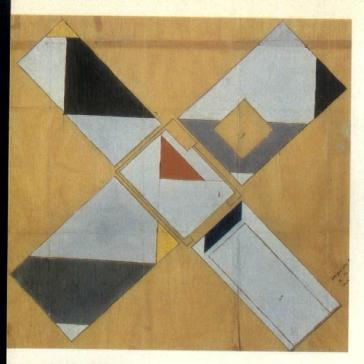
Cinema-dance hall's interior by van Doesburg is recreated as central feature of the Walker's "Visions of Utopia" exhibition on the Center's main level (above). The van Doesburg plan and vintage photographs are graphic documentation of his swing away from classic De Stijl right angles in favor of previously spurned diagonals.







art.



Backed against the wall after the Cafe Aubette's failure to please the public, van Doesburg wrote, "Let the architect create for the public. The artist creates beyond the public and demands new conditions diametrically opposed to old convention. Constant values are only contained in 100-percent art. This is now my firm conviction."



Van Doesburg's plan and drawings of a flower room commissioned by the Comte de Noailles marked this De Stijl founder-editor's first departure from the strictures of a "Neoplasticism" that required horizontal and vertical lines to define color planes.



### STILL ANOTHER CASE OF **ARTFUL RISK-TAKING**



Martin and Mildred Friedman, husband and wife though they be, are not in any sense, banal or otherwise, a "team."

Martin Friedman is Director of the Walker Art Center. As such, he has been the principal instigator for some twenty years in making this institution internationally known, not only for the alacrity with which it champions the avant-garde across the whole arts spectrum, but also for the critical risks it takes to make the things most avant hap-

Mildred Friedman is Curator of Design at the Walker, as well as editor of Design Quarterly, one of the most respected publications commenting on the arts, not least because of its boundless catholicity. Unaccountably, for a person of cultivated sensibilities, she goes by the boiler works nickname of "Mickey."

That Martin and Mickey Friedman go their separate professional ways, albeit under the same roof, may be gleaned from the admission that a recent interview with AM was the first either could ever remember having given jointly. The occasion could scarcely have been more propitious, however, since the current Walker show, "De Stijl: 1917-1931, Visions of Utopia," may be savored by the Center's Director as still another cultural event that is making an enormous impact not only in the Twin Cities but across the country as well. As for the Center's Curator of Design, she may count the De Stijl show an extraordinary personal achieve-

"This show," Martin Friedman is quick to explain, "is all Mickey's. She has been nurturing it for four years."

Like numerous Walker shows during the Friedmans' time, the De Stijl is a major cultural occasion derived from an aesthetic wellspring that might well have remained not only untapped but unnoticed (for other high-risk shows conceived by the Walker, see the box opposite). How did this one come

"My interest in De Stijl stems from a long acquaintanceship with various aspects of the movement," says Mickey Friedman. "Obviously, everyone who lives with modern art is interested in Mondrian. That's a given: it's very hard to ignore him. Well, for many years we have been going to Holland, where, if you go to the Stedelijk Museum you trip over De Stijl the minute you come in the front door; the first galleries you encounter are all devoted to this movement. The idea of doing the show seemed a very natural thing, but you have to ask yourself, 'Why is it right to do this show now?' One answer we found, was the fact that 1982 would mark the 200th anniversary of Dutch-American diplomatic relations, which happens to be the longest unbroken diplomatic connection the United States has ever had with any country.'

It was 1978 when the Walker decided to stage a De Stijl show. Recalls Martin Friedman, "We had never been to war with the Dutch, but the Walker almost declared war over the problems we had securing some loans from Dutch museums. Eventually, they were all re-

solved amicably."

The Friedmans convey the impression that while a 200th anniversary is an acceptable political reason for having a show, there was a far more compelling cultural one. Says Mickey, "A show of this kind demands so much preparation: so many expensive loans, so much insurance, so many commitments. We had to ask ourselves, 'Is this the right moment?' And we decided it was, because after looking up the history of exhibitions on this movement we discovered that there hadn't been a major De Stijl show in 30 years."

A question occurs. Considering the growing post-modernism rhetoric of the past few years, could the De Stijl exhibition conceivably serve as a countervailing force? "I can recognize the feeling in some quarters that certain forms have been exhausted," says Martin, "that they've been commercialized and plasticized. I can understand those who say, 'The hell with it all-let's go back to something a little cuddlier and prettier.' And I am all for it. But the interesting thing to me is that the De Stijl movement embodied so much of what the post-modernists are trying to do."

Indeed, as the Friedmans are prone to emphasize, an essential lesson is now being offered by the Walker's De Stijl show on just how pervasive, how thoroughly respectable, the modern movement has become. "Modernism," says Martin, "has made its point. Most people, and particularly the young, educated generation, regard modernism in its various art forms as a natural part of their daily existence. They no longer see it as a series of pinnacles to be conquered. They've grown up with it. We've watched it happen here. The forms of modernism are the forms they now understand, the forms they are comfortable with." Given such a histor-

> "This show is about the shock of relationships"

ical perspective, those nurtured on modernism are in the enviable position of being able to discern, through a visit to the De Stijl show, where the modern movement is literally coming from.

Mickey picks up: "When you look at De Stijl, you are looking at genuine invention. When you think about the use of pure color, line and form on a twodimensional surface, you can appreciate that the early Mondrian, the early van Doesburg and van der Leck paintings were the result of true discovery. No one had ever used pure color before in the way these artists succeeded in using it. Or if you look at the way a Rietveld chair is put together, you find that it is a genuine breakthrough in furniture design. There had never been a chair put together in this way before."

Martin again: "It seems to me that, as Mickey has suggested, this show is about the shock of relationships. You walk into a room and see a chair which is basically a three-dimensional painting. My God, what is this? A chair which is made precisely of the same colors as you find in a painting-and

for the same reasons.

Still another question is put to Mickey Friedman: Will De Stijl be a

popular success? "I think there will be a great deal of interest in the community of architects, designers and art historians, not least because there will be a lot of new material that has never been shown before. But beyond the professionals, people generally will be interested in juxtapositions of materials they've never seen before: Mondrians juxtaposed with architecture, for example, in a way they've never seen before. They will begin to recognize relationships they didn't know existed before."

And what of the post-modernists? "Kids who are in schools of architecture or fine arts today have grown up with the idea that post-modernism is what art is all about, right? What we're sayingrather, what De Stijl is saying-is that before you decide that post-modernism is what it seems to be, you'd better take a good look at modernism: Find out what it was; find out why we are going through a neo-classical phase right now. In order to know that, you have to understand modernism in its most basic form. The philosophical values of De Stijl-purity of line, of form, of intention—these all need to be understood."

Where, following De Stijl, might the Walker be heading? Where will the Friedmans be looking for inspiration? "Everywhere," says Martin. "We are operating in many areas: painting, sculpture, photography, design, architecture. We are interested in the performing arts, in new music, new dance, experimental theater. We have an incredibly pluralistic following. When we first came to the Walker, it seemed to me that probably the same people would come to all events. What has happened is that we don't have just an audience for film; we have an audience for the classic Hollywood film, another for the European documentary, still another for the young filmmaker (admittedly a small one, but very valuable all the same). As we wind down the Twentieth Century, it seems to me that the hybridization we are now seeing among the arts (once such a novelty) is now a major leitmotif. There will still be painters who confine themselves to painting and dancers who remain interested only in the purity of dance, as many should. But we'll also be seeing greater cross-fertilization among the arts.'

The Walker will still be encouraging the singularly occupied artist, but it will pay particular attention to the new interaction in the arts. "We are operating in so many areas, and with an intensification of expertise among our curators. How can that fail to interest all of us

here?"

Meanwhile, as AM goes to press, the evidence that's always most persuasive says the De Stijl show is a tremendous success. What evidence is that? The box office, of course.

#### A sampler of venturesome Walker exhibitions



From Works for New Spaces, the first show to appear in the facility designed by Edward Larabee Barnes, Lynda Benglis' Adhesive Products; May-July, 1971.



From *Projected Images*, pin-sized hole in a board fitted into gallery window projects image of outdoor street scene onto wall screen; September-November, 1974.



From Naives and Visionarriom Naives and Visionalies, James Hampton's Throne of the Third Heaven of the Nations Mil-lenium General Assembly; December, 1974-January,



From The Architecture of James Stirling, specially designed viewing booths installed to project photographic images of four major works; September-October, 1977.



From The River: Images of the Mississippi, wall mural in front lobby depicts an imaginary Minneapolis riv-erfront scenario; October, 1976-January, 1977.



From Noguchi's Imaginary Landscapes, large-scale environmental sculptures by Japanese artist Isamu Noguchi; April-June, 1978.

### Workplaces that Work

## The Applied Humanism of Herman Miller

You wouldn't expect this sophisticated furnituremaker to flog its workers, even if it were less morally motivated. But who else would commission prizewinning posters just to celebrate the company picnic?

We are a nation of office dwellers. Over 50 percent of the American working force can be classified as white collar. And a good one-third of that 50 percent spend their lives in an office setting. Yet, the environment in which office work takes place is almost invariably at odds with the nature of the work itself. Indeed, many social scientists nowadays see a direct connection between low productivity and environmental banality in the American workplace.

It was ever thus. The great art critic and architectural historian John Ruskin believed the dehumanizing and demoralizing aspects of work "can be met only by a right understanding on the part of all classes of what kinds of labor are good for men, raising them, and making them happy; and by equally determined demand for the products and results of healthy and ennobling labor." Of course, he was speaking at the time of the scandalous factory conditions of Victorian England, but the words ring true even today as more and more people find themselves in a subservient role to the machines-computers, word processors, data transfer systems-of an increasingly complex and abstract information-oriented world.

If Ruskin were alive today he doubtless would approve of the work situation at Herman Miller, Inc., for this famous furniture manufacturer is an uncommonly conscientious employer. For well over a half century it has been permeated by a Calvinist moralism that translates into high quality, honest design and, not least, significant profits. It has accomplished these ends without ever losing sight of the notion that its greatest resource is its people.

Herman Miller's sensitivity and concerns for its people have manifested themselves in the shaping of the actual work environment. It is a management precept that a quality environment yields quality results. And if the furniture this company makes is a fair test, the theory clearly holds true, since its products are a top choice of architects



Blending with cityscape, Herman Miller's Bath, England factory (above) is the consummate good neighbor. Prizewinning poster (opposite) from summer picnic.

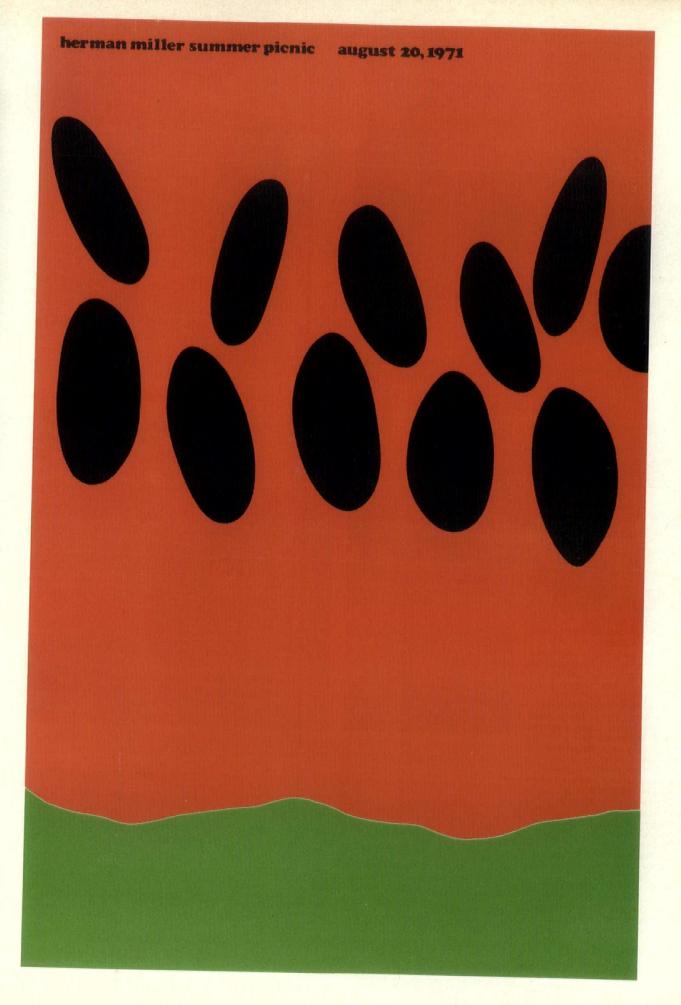
and designers when specifying office interiors.

A concern for quality design in a quality environment influences everything Herman Miller does—from the design of the furniture, the selection of architects for new manufacturing plants, the design of advertising and promotion, to the staging of the company's annual summer picnic.

As with the Japanese, when you come to work for Herman Miller you may come expecting to stay. It is a little like joining a family; everyone looks after you and is genuinely concerned about your production and how you contribute toward the good of the entire company. Such fellowship at the interpersonal level can take the form of self-policing (the time clocks were removed years ago), or peer group observation; and, at a broader social level, as employedirected educational seminars and

lectures, aid in providing childcare, payment of adoption costs in lieu of maternity benefits for those who choose to do so, and even in the great emphasis on top-quality design for cafeteria menus and artifacts for the company's summer shindig. There is one story told by proud company executives of an elderly woman, whose husband had worked for the company years ago, annually receiving an invitation to the summer picnic though her husband had been dead for several years. It is this sort of caring for the well-being of its employes and employes' families that enables Herman Miller to bring out the high productivity and pride of craftsmanship in its workers; to produce what Charles Eames liked to call "good goods," while enriching the lives of its members in the process.

-Bruce N. Wright



Humanism embraces even hot air balloons and crazy games.

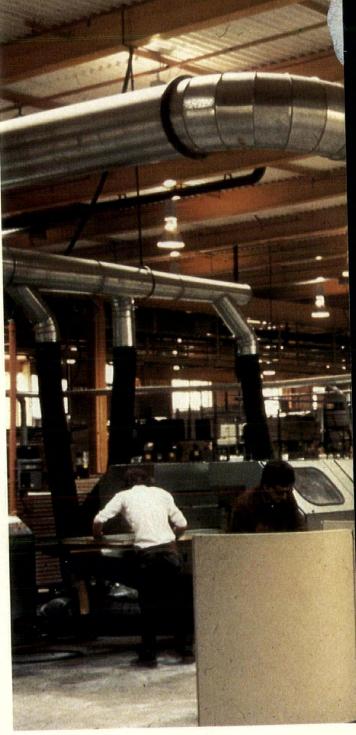




At the Herman Miller headquarters in Zeeland, the central lobby (top), dubbed "Main Street" by employes, does in fact function as a social milieu for easy, fortuitous encounters. Its main design ingredients: red brick pavers, large potted trees, and high, welllighted ceilings. Blue boxes with windows angled strategically under skylights provide natural light for conference rooms.

At new Health/Science facilities manufacturing plant in Grandville, Michigan (above), whimsical people-sculptures (here a gardener overlooking a skylighted atrium), are integrated into the workplace throughout. The building's yellow porcelainpaneled facade will likely be replicated by architects Booth/Hansen & Associates as company growth requires additional, incremental units.



















Bright, high-tech factory environment at Herman Miller's Bath, England plant (above) incorporates the company's own work station units to make the workplace "subservient to human activity."

A hot air balloon adds exitement to adds.

citement to a recent com-pany gathering (far left) as employes congregate on the main headquarter's front lawn for the annual picnic. Employes are encouraged to participate in scheduled events such as the "crazy games" which sometimes use holding ponds on main grounds (left) as obstacles.

Social seating groups of company's own products form break areas for employes at the Holland, Michigan seating plant (top). Such areas are scat-tered throughout the factory, and the employes fre-quently personalize the one nearest their work stations. (Note the kiosk with company bulletins, job list-ings, and a weekly cafete-ria menu.) These areas reflect Herman Miller's stated goal to create an stated goal to create an environment that "encour-ages an open community and fortuitous encounter," with a minimum of disrup-tion to the work flow. Shoulder-high windows

running the entire base of the building (above) allow each employe a view out-side from any vantage point in the factory. Vehicle circulation is kept to the perimeter to ensure that no windows are blocked.

Papier-mâché sculpture of a painter makes a state-ment about white walls at the Grandville plant.



Banner-festooned cafeteria (above) is located in a heavily traveled corridor between factory and office space, where hydraulic lift and on-foot executive may both be seen scuttling by. Consistent with Herman Miller's aim to demonstrate the flexibility and adaptability of its products by integrating them into every aspect of its own work environment, several compo-nents of this cafeteria have been drawn from company-made hospital

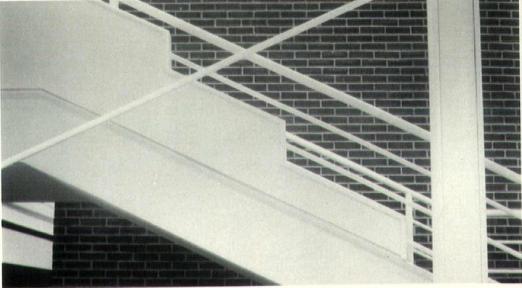
company-made hospital and factory systems.
Stairway rising above a busy ground-floor area at the Grandville plant (right) is designed with "modesty panels" to reduce any discomplished expensions skirted. comfiture among skirted

employes.

Common at Herman Miller facilities are numerous outdoor terrace break areas where, weather per-mitting, workers may enjoy an ambience more often associated with a private

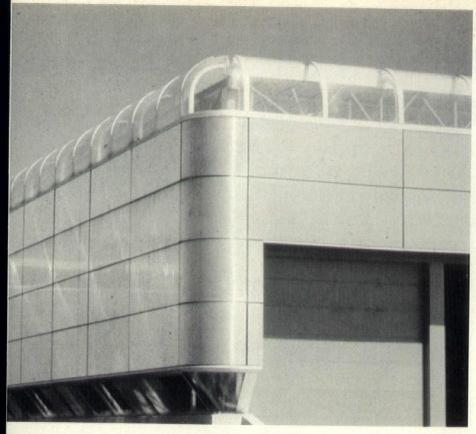
club (below right).

Overhead curing racks of foam cushions (below far right) move on a continu-ous conveyor at the Holland seating plant. They not only eliminate floor storage but also happen, as they pass by in their bright colors, to look nice.











The much-published Holland plant designed by CRS, Inc. (top) exemplifies the company's commitment to quality architecture.

Work stations are uncluttered and well lighted (above); the work patterns are engineered to achieve dual aims of employe comfort and productivity. The Marigold Lodge, near

The Marigold Lodge, near Holland, was painstakingly restored to provide a year-round company avocational center for employe activities (right).





Chairman Max De Pree

When Herman Miller's Max De Pree signs up an architect for a new project, here's what he expects:

The following client-architect values were expressed by Mr. De Pree not long ago in a talk on "covenantal relationships" with a group of architects.

• If the relationship is to be meaningful, the architect has to work with Herman Miller and then stay involved—become part of Herman Miller.

• As a good client and user, Herman Miller is likely to improve on the product the architect provides and will remain involved in this ongoing developmental activity.

• Every architect and client has a contract, but Herman Miller also wishes to build a covenantal relationship, one built around ideas, one that is basically philosophical.

• It is Herman Miller's goal to create an environment that encourages an open community and fortuitous encounter that welcomes all and is kind to the user. Herman Miller believes a building changes with grace, is scaled to persons and is subservient to human activity. It must contribute to the landscape in its aesthetic and human value, meet the perceived needs and be open to surprise.

• Herman Miller has no preconceived notions concerning materials or building techniques.

• Herman Miller says to architects initially that they cannot just do a building for the company and leave. "If you are going to work for Herman Miller, you have to stay."

Workplaces that Work

## A Factory for Making Architecture

It's not the sleek box itself but the Big Room that explains the IKOY Architects' laid-back work habits and seminal design process





The place calls to mind Orwell's Animal Farm.
Everyone here is nominally equal. Everyone works in the Big Room—including, most emphatically, the six partners, who sit at boards exactly the same size as those of the most junior draftspersons. There are no secrets in the Big Room. All fifteen people sitting here are not only permitted but required to eavesdrop on everything that's going on: phone calls, project

discussions, client meetings.

The Big Room is the central feature of the IKOY Architects' mirrored and festively polychromed high-tech office building in Winnipeg. Everyone here is not really equal, even though a bonanza of amenities—swimming pool, steam room, billiards, mezzanine lounge, a kitchen stocked with deli comestibles, joggers' lockers, the company sailboat, the company fishing shack in the North Woods,

and even the punching bag—is offered freely to all IKOY employes and their families. Not, however, because the partners are such nice guys but because they are pursuing a design philosophy that requires an extraordinary commitment from everyone in the firm. "We're anti-knowledge and pro-discovery," says one of IKOY's partners, Ron Keenberg. "It was our contention when we got together and started this firm ten years

ago that if we produced buildings from the collective knowledge we have, we would be making a career only of what we know. But if we used our knowledge in the pursuit of discovery, this would lead to a continuing discovery of new architectural knowledge as all of us in the firm worked and matured. The people who work for us therefore must accept the idea of discovery, which is very







Free-standing on a tight city lot in downtown Winnipeg, the IKOY Architects' building masks what's going on inside from passersby by means of mirror cladding, fore and aft (top opposite). The only exterior clue to the doublestory volume the firm occupies are two horizontal bands of mirrored panels finished in grey on reverse side. (Ground floor is leased.) All employes involved in the architecture IKOY "makes" work side

by side in the "Big Room" (opposite). A mezzanine level rests on a steel framework which serves the further visual purpose of defining the reception seating area (left) and rear open area featuring a punching bag. Red door and stairway beyond lead to the firm's outdoor swimming pool, built as much for the employes' families (who use it on weekends while the breadwinners grind away indoors) as for the employes themselves.

hard work."

By their own assessment, all of the IKOY partners were trained in the International Style, and their repudiation of it is expressed in the Big Room as a workplace. "The Big Room allows for the full use of varying abilities," says Keenberg. "Traditionally, there are two people in an architect's office who rise above everybody elsethe partner who brings in all the work and the fair-haired

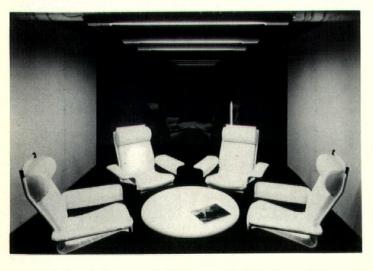
designer. Everybody else is in the back room. The secondclass citizens of architecture. If the partners have front offices, conference rooms and private toilets, their ties with those people in the production room are tenuous. A partner walks in and says, 'Let me see what you've done. Hmmm. Ah, why don't you change this over here and that over there?" The guy in the back room thinks, 'Oh, my God, what

an ass. He doesn't know what he's talking about.' So the two of them have an argument. The partner glares at the back-room guy and says, 'Look, don't argue with me. Just do it.' And walks out."

Arguments happen in IKOY's Big Room, too, but the partners say the physical setting virtually requires them to be resolved sooner or later. A minor tiff might be resolved by one person's backing off and going up to

the mezzanine for a steam or a coke. But in any event, the Big Room has been found to exercise a certain healing effect on bruised psyches. Keenberg again: "We believe criticisms must be extremely honest, even when they're rude and crude. But in the Big Room no one will absorb such criticism. So there will be an argument, and you'll go home and lock yourself in mentally and begin to wonder, 'Was that guy right?'





The mezzanine, fully visible and bounded only by a metal rail, consists of a lounge area, billiard table, island kitchen and a cube of clear glass block that houses a locker room and steam bath. Beneath the mezzanine are conference rooms adjacent to the Big Room. Simply furnished with canvas-covered chairs that cost about \$80 each, these rooms are divided by simple Masonite wall sections joined with exposed fasteners. Walls

facing the Big Room are entirely of glass because, as one partner explains, "When some of us are meeting with a client, the rest of our people can see that we're working; and the client can see that they're working—that we in the meeting are not the only people involved in creating his building."

Because you have been publicly exposed, you can't hide the reality of your disagreement. So you are forced to reconcile the disagreement in your own mind. Sometimes it akes a day, sometimes a week, sometimes six months. Eventually, you are forced to examine the other person's point of view. Then you can go back in that Big Room and that argument keeps rearing its ugly head until one person understands the point

the other is making. Or quite possibly we may come to realize that both of us are wrong. You can't hide with your mind in the Big Room."

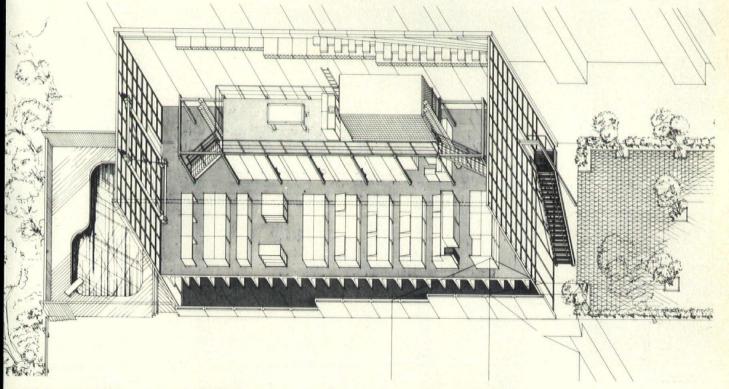
Arguments aside, the chief aim of this building is to encourage the professionals who work there to do what they are good at—and to grow. It is the firm's position that everyone on the payroll is a designer of one sort or another. Says Keenberg, "The Big Room also teaches that

there are other important aspects than who brought in the job and who is responsible for the concept design.

There's detail design development, production, supervision, administration; and there's products. In some offices the designer yells, 'Granite!' But if he had to use granite as a product, he'd have to rely on the local memorial stone manufacturer to tell him about techniques. We have someone in our

office who knows all about granite and how to use it. The designer goes over and communicates with him, and all of a sudden everyone in the firm knows that that person has made a major contribution to the design process—thanks again to the Big Room."

Not least of the reasons why fifteen architects can communicate successfully in one room is the out-size volume of the room. It was





## Even the lowliest make design contributions

Steel members that form the bridge supporting the mezzanine were pre-assembled off the site as sub-components, then tied together when delivered and set in place. Although virtually all of the industrial products and materials IKOY uses are off the shelf, their actual application is determined by fur-ther design analysis. "A building is made up of so many connections," say one partner, "and we think of each connection as a design. With this kind of design mentality, we can do systematically related work in which each person in the firm is in fact a designer."

IKOY's experimental notion that a large volume of space, two stories high, would provide an environment of acoustical privacy—and it does. "You can sit at your board with people talking all around you," says another partner, Don Blakey, "and you learn to choose—to listen or not to listen. Unlike a room with a nine-foot ceiling, where the sound bounces, we've found the sound doesn't travel harshly

in this big volume. If you want to pay attention, you tilt your ear; otherwise, you don't. It's an unusual acoustical setting."

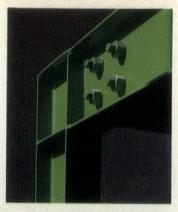
IKOY thinks of its building as a factory for producing architecture. The people who work here are the machines, and it is the firm's idea that as the machine-architects add new process to their functional knowledge, they will make ever-improving prodThe partners were anything but sure, as their own office building neared completion in 1978 (it took just three months to put it together), that they'd made an acceptable product. They worried that their prospective clients would view this glass box as the work of way-out artniks instead of solid professionals. No danger. "At our open house," Keenberg recalls, "some thought it was magnificent, some weren't

sure what they thought. But everyone thought the building was fun. That's exactly what we hoped they'd think."



Polychromatic scheme enriches industrial details
everywhere: Blue steel offthe-shelf plates for steps
are topped with black rubber treads which are
stopped short of plate's
edge to stress a veneer
character. Structural steel
connection shown here
painted in "IKOY Green" illustrates firm's design
strategy: "Some firms weld
or bolt. We do both for
clear design expression."
Bright yellow flange assembly anchors wind
braces (opposite).

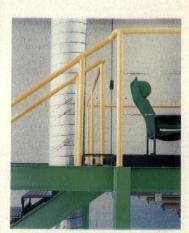






They take pride in being 'machine architects'







steam-locker room cube ests atop its steel supporting structure like a giant block of ice. As with many industrial products, the clear glass blocks change in appearance as the viewer's vantage point changes; seen against natural backlight (above) it orms a clear geometric pattern. Viewed where the com's flourescent light pounces off it, it shimmers right). After the material was installed, uncommonly modest staffers protested the idea of being seen stark naked while in the

steam room. So IKOY went to the experimental expedient of having a section of glass block walls sandblasted inside the steam room. "It worked out beautifully," says an employe. "The finish is a nice frosty grey. We only did the middle, though, so from the outside you can see the steamers' heads and shoulders above the frost and their legs and feet from the knees down—just as in a Paris pissoir."



Composition of ordinary materials assumes the quality of sculpture. Minimal pipe railings are augmented by the simplest of security details—plasticized wire lines running between vertical posts and made taut by the kind of turnbuckle commonly used on a clothesline. Electric wiring that wends from fixture to fixture visually undulates, as if set in motion by ceiling fan.

#### Workplaces that Work

# All in the Family Under One Roof

It could have been a cat and dog fight, but a Portland firm's adroit psychology and design savvy have united all of a small town's municipal services in one fine structure

Most everyone who worked for Gresham, a suburb of Portland, Oregon, was hurting for space. So it was perhaps natural that the city council decided, on receiving a \$3.9 million public works grant, to build a single facility in which to house the whole work force: police, firemen, city management and finance, protective services, technical library, public works and school administration. Only when Greshamites started looking around for municipal models to emulate did they discover that there weren't any: their combined municipal-educational service center was to be the first of its kind in the United States.

Clearly aware, however, that their reach exceeded their grasp, the city council turned to the Portland firm of Broome, Oringdulph, O'Toole, Rudolf & Associates (BOOR/A) for help in

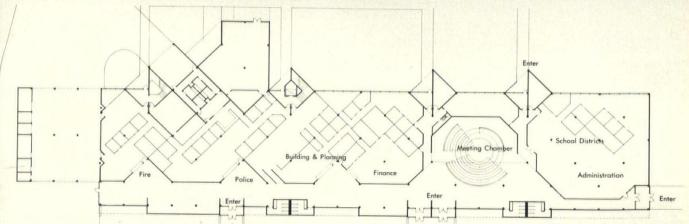
giving substance to their brainstorm. BOOR/A responded with admirable humility. Since they'd never designed such a building as Gresham wanted, they asked the client for help. They introduced some 30 municipal workers to the consciousness-expanding properties of the architectural charette. During three intensive wish-fulfilling days, the charette team agreed on having a building that would be energy-conserving, easy to maintain, accessible throughout to the visiting public and susceptible to unrestricted movement within the building by all who worked there. Recalls one charette participant, "Those three days with the architects were a new experience for most of us. It was kind of wild at the time, but the results were positive."

Indeed they were. The architect has

resolved an incredibly complex clients' program with exceptional finesse-and under terrible pressure: to get the \$3.9 million, BOOR/A had just 25 days to develop a schematic design, and another 90 days to produce working drawings and commence construction. The Gresham Municipal Services Center, which was completed on time and for \$3.3 million, not only houses the required myriad of municipal services but also incorporates a striking amphitheatre where both the city council and the school board may convene public meetings and official hearings. The building's openness is democratically impeccable, visible and accessible from numerous entrances. Its best architectural feature, an indoor "street", links all who were once isolated to all else in municipal comity.









The once-swampy site for Gresham's municipal-educational service center was reshaped and bermed to accommodate the architects' long, lean silhouette (top). Penetrating the berms are public entrances which lead the visitor immediately into a novel experience: the bright-colored (green and magenta), open-trussed pedestrianway—actually an indoor street—which evokes the "openly democratic" character of the building. Thanks to this street, anybody at any point inside may freely move about to any other point (see plan). If such freedom liberates

the worker, it has an even greater meaning for the Gresham resident who comes seeking one service or another: wherever one enters, a warm reception is inherent in the arrangement and frequency of the reception centers—not to overlook the decidedly unbureaucratic-looking cafe seating groups. And strolling the street, one passes stylized lamposts, as well as offices-cum-storefronts. Easily the most visually appealing space here is the public meeting room, defined only by its encircling partition and bright red seats.



## No-Nonsense Preservation

This spring Minneapolis will gain 200 buildings to be preserved, thanks to an eternally vigilant system. Here's how it works.

By Kate Johnson

All indicators predict that an ever greater proportion of building activity in the coming years will involve the rehabilitation or renovation of older structures. Chances are thus likely that more and more architects will find themselves working with designated historical landmarks. An inescapable consequence is that they will have direct contact with local review agencies and citizens' commissions of appointed volunteers charged with protecting a history that belongs to everybody. They will also need to school themselves on Federal guidelines that affect tax benefits for owners and developers. The purpose of this article is to provide information—using the example of the Minneapolis Heritage Preservation Commission—that will make the review encounter positive and productive rather than frustrating for designers, developers and preservationists alike.

What makes a building or any part of our material environment deserving of study and eventual designation as significant, worthy of being saved and preserved as a city grows and changes? A building can be an archetype, a textbook example of an historic style. Or it can be unlike anything ever built before, totally unique. It can be a modest, unremarkable frame house in which, however, someone wrote one of the great novels of American literature. A building can be our only design by a famous architect or master craftsman. And, of course, something other than a building-St. Anthony Falls in Minneapolis, for example—can be designated for preservation because of its role in our history or even, simply, its singular beauty.

There are two levels on which our historic material environment in this country is identified and protected. The National Register of Historic Places confers national designation and operates through State Historic Preservation Officers (SHPOs). In Minnesota, municipal commissions recommend buildings, districts, landmarks or sites at the local level. While national and local agencies overlap in very important ways (most notably, guidelines for restoration and qualification for tax benefits), they do not overlap in the obvious realm of

designation. In Minneapolis, for example, there are some structures on the National Register that are not on the city's list, and vice versa. One must be careful, therefore, to investigate the possibility of either form of designation when dealing with an historic structure.

The National Register was only established in 1966, building on the lists that were begun in the '30s as HABS, the Historic American Buildings Survey. Today there are approximately 15,000 sites or structures on the National Register. In Minnesota, the Historic District Act of 1971 established eleven state historic districts, declaring, "It is in the public interest to provide a sense of community identity and preserve these historic districts which represent and reflect elements of the state's cultural, social, economic, religious, political, architectural and aesthetic heri-

"It should be quite clear that historic preservation is not a fuzzy-headed relative of beautification."

tage." Among these state-designated districts are Fort Snelling, Old Mendota and St. Anthony Falls. Locally, the Minneapolis Heritage Preservation Commission (hereafter the HPC) was created by the City Council in 1972 partly as a mechanism through which to 'exercise control and maintenance of St. Anthony Falls historic district. . . ." Its other powers and duties are:

To catalogue structures and sites and recommend them to the City Council for heritage preservation designation.

To prepare guidelines for utilization of designated sites.

To review all building, moving and demolition permits for designated structures and all buildings within historic districts.

Places recommended for preservation to the City Council are chosen by ten appointed volunteers, each with a special expertise, personal interest and unique perception of history. Currently, the Minneapolis HPC consists of three

lawyers, three architects, two community activists, one engineer and one historian. These varied backgrounds complement each other and make possible actions in the interest of a broad public. The City Council has supported these actions to a remarkable degree, rejecting only a few recommendations for designation and supporting HPC decisions to

refuse building permits.

Heritage preservation designation guarantees that thoughtful people will make every effort to preserve the best of the built environment and to encourage its utilization in practical ways. Enabling legislation for preservation agencies on both state and local levels grew out of the wholesale destruction of Minneapolis' Gateway district in the 1960s. Rich streetscapes from the 1880s and '90s were lost, as was the much-beloved Metropolitan Building (1888, E. Townsend Mix). The public outcry over its demolition was followed in less than a decade by Peter Nelson Hall's renovation of the Pracna Building (1890, Carl F. Struck), instantly recognized as a whole new approach to the characterful but often outmoded buildings found in the heart of all American cities-buildings whose long-dead designers were unable to speak in defense of their efforts. The HPC not only guards the integrity of the work of the past, but also preserves the cultural heritage of Minneapolis for future citizens, equally voiceless in the present.

To date five districts and 34 individual structures in Minneapolis have been designated as significant and worthy of preservation. This spring over 200 individual structures and an undetermined number of districts will be recommended to the HPC for consideration by a study team supervised by the Center for Urban and Regional Affairs at the University of Minnesota. The study team will also produce the manuscript for a popular publication on the role of historic districts and buildings in the development of the city.

The St. Anthony Falls Historic District, an enormous area that includes a variety of building types and dates, was established by the state legislature, acknowledging the area as the heart of the early city's economy, technology and

communications systems. A major drawback to the designation of any district, much less one so critical in the future plans of the city, is the concommitant need to review every building, every wrecking and moving permit for every structure within the district. While it is dominated by the awesome and muscular Pillsbury A Mill (1881, Leroy S. Buffington), the district also includes a number of totally undistinguished concrete block structures, the Sheehy Company dirt piles along Marshall Avenue, and the elegant Grove Street Flats

Fifth Street Southeast Historic District, four and a half blocks long, contains a number of fine houses in the Italianate style from the 1870s, built by early civic leaders, as well as two impressive stone churches from about 1890. The Washburn-Fair Oaks Historic District rings the park of its name, which is faced by the complex of buildings occupied by The Children's Theatre Company, The Minneapolis College of Art and Design and The Minneapolis Institute of Arts (1912–14, McKim, Mead and White; 1972–74, Kenzo Tange and

nesses to an era of self-made mercantile millionaires. The star of the Warehouse district, Butler Square (formerly the Butler Brothers Building, 1907, Harry W. Jones; renovated, 1973, by Miller Hanson Westerbeck Bell), was the very first individual building ever designated for heritage preservation in the city of Minneapolis.

Among the 27 designated buildings outside of historic disticts are the 1856 Gothic Revival B. O. Cutter house, the Grain Belt Brewery (1890), and some of the major commercial buildings downtown: Pittsburgh Plate Glass (1910, Kees and Colburn), the Grain Exchange (1900-02, Kees and Colburn) and the Minneapolis City Hall (1888-1909), Long and Kees). Three surviving city water towers (Kenwood, Prospect Park and Washburn Park), several more single family homes, Fire Station #19 and one interior, the former Forum Cafeteria (1929; soon to be reincarnated at City Center), are also on the list. The youngest designated structure is Saarinen and Saarinen's Christ Lutheran Church (1949), though the distinction by rights should really have gone to Perkins and Wills' Lutheran Brotherhood Building (1954-55). It lacked only one vote from the City Council for designation two years ago, and the HPC is confident that next time it will pass, so high has appreciation of its merit and quality

What is the practical value of designation? For one thing, it is a way to control change through the regulation of building, wrecking and moving permits. The HPC currently averages about 100 permit requests a year. The Department of Inspections' computer automatically flags addresses of designated buildings and all buildings within an historic district. The requestor is informed that he or she must appear at a public hearing of the HPC, held the third Wednesday of every month. A call to Steve Murray, HPC's staff member within the Planning Department, will tell the applicant everything he or she needs to know; what kinds of things are subject to review (parking lots and signs, for example, in addition to exterior building changes), how many copies of what kinds of drawings are needed by the Commission, how many days before the public hearing, how the hearing is publicized, etc., etc. But it is imperative, really, that the process of communication begin long before anyone is ready to apply for a permit, because by then design decisions have already been made.

Once the City Council has designated a building or a district, the ordinance requires that the HPC develop "guidelines for utilization of the property." Our general District Guidlines for



If anyone needs convincing that there must be some authority to monitor changes made to the built environment, consider the fact that the screen on Ralph Rapson's Guthrie Theatre (above) was removed over the living architect's own strenuous objections (left).

1877), currently being restored and renovated by John Kerwin. Another problem is that no single set of guidelines for utilization would be appropriate to the whole of such a varied disrict, to Nicollet Island as well as the East bank milling area or the vacant and once occupied by the Great Northern Depot. Consequently, no fewer than eleven subdistricts were distinguished.

The exact opposite from the size and ack of homogeneity of the St. Anthony Falls district, Minneapolis' second disrict, Milwaukee Avenue, is just two blocks long. A mini-neighborhood of mostly identical workers' cottages, its designation was proposed by residents hemselves who preserved the structures and achieved home ownership through 'sweat equity.'

In 1976 two historic districts, both esidential but of different scales, were lesignated by the City Council. The

URTEC). Mansions, such as those built for Charles S. Pillsbury (1912, Hewitt and Brown) and Alfred F. Pillsbury (1903, Ernest Kennedy) face the park. Other streets of this district are composed of groups of impressive Queen Anne frame houses, as well as several clusters of picturesque brick row houses from before 1900.

The fifth historic district is the Warehouse Preservation District. It was designated in 1978 during an interesting episode in America's growing awareness of the built environment and its possibilities. Minneapolis artists, following the lead of their New York confreres, moved in droves to the (then) cheap and spacious lofts in warehouses along First Avenue North. Preservationists liked the idea of genuine new uses for old buildings, but were really concerned with preserving these wonderful old fortresses of the wholesale trade, wit-

Utilization follow very closely those of the Department of the Interior because the Federal program of tax incentives for historic preservation bases all judgments on compliance or non-compliance with the Department of the Interior's standards. It is important for everyone engaged in restoration or renovation of historic structures to understand that no municipal commision can vary from these Federal standards without jeopardizing financial advantages for its citizens.

Commissioners are sensitive to the charge, usually leveled by architects, that the HPC is playing designer when its guidelines say, "Retain existing window and door openings," or when the HPC must, by law, list findings of fact to show how proposed new construction does or does not "materially impair the architectural or historical value of buildings on adjacent sites or in the immediate vicinity." It should be quite clear that historic preservation, as practiced in the City of Minneapolis, is not a fuzzy-headed relative of beautification. Rather it is a regulatory arm of environmental protection, as it is defined in the City's current Comprehensive Plan. The HPC communicates with the machinery of city government and is nominally staffed through the Planning Department. Our role is to advise the City Council how to keep the best of the city's history while living in the present and planning for the future.

The day you learn that there is a good chance you will be involved in a project within an historic district or on an individually designated structure, get in touch with HPC staff at the Planning Department. Staff and commissioners are eager to meet with you in order to start a dialogue early enough that clearly outlines the possibilities and limitations of a given situation. It makes no sense to begin design development for a program that fails to note, for example, that Federal tax credits are significant to the developer, and that the Department of the Interior guidelines must therefore be respected.

Butler Square is an excellent illustration of the importance of those guidelines. The first half of the building was renovated before the 1976 Tax Reform Act and the guidelines were in place. Washington was prepared to deny tax benefits to the development of the second half of Butler Square, begun in 1979, because significant alterations to the fenestration had been made, a situation vigorously opposed in the Interior Department's guidelines. Minneapolis HPC staff contacted Washington, arguing that it certainly would be preferable to have all its windows match, and convinced the feds to grant historic preservation tax benefits to Butler's second phase.

The Minneapolis HPC has developed local guidelines for utilization for each district. The Milwaukee Avenue Historic District, for example, is so complete and has such a strong character that the vast majority of activity has been restoration. Guidelines for in-fill construction justifiably call for designs that echo existing structures. These guidelines were developed by the homeowners and rehabbers themselves and adopted by the HPC. The whole point of the Milwaukee Avenue district is that there is one house type; every house on the avenue looks pretty much like every other house on the avenue. To allow variation from that schema would negate the reason for its designation in the first place.

Two other primarily residential districts, the Fifth Street Southeast district and the Washburn-Fair Oaks district, share a set of common guidelines. There has been no new construction in the Fifth Street district since its designation and, in fact, very little in the way of serious renovation or restoration. In Washburn-Fair Oaks, on the other hand, there has been a great deal of fixing-up, and four new multi-family housing structures have been built. New construction guidelines call for materials, scale and set-back that are compatible with adjacent structures, since there

has been energy-efficient windows that maintain the pattern and rhythms of the original wood frame windows.

Of all places, the greatest potential for new construction and building activity of every kind exists in the St. Anthony Falls Historic District. Because of its complexity, it took forever to develop "guidelines for utilization" for its eleven sub-districts; in fact, they were being developed at the same time that the largest and most controversial project for the East bank, Riverplace, was taking shape. It is to the credit of Bob Boisclair, his staff and his architects, Palaia Svedberg Associates and Miller Hanson Westerbeck Bell, that they never lost patience or faith in the system of regulations and reviews. HPC commissioners and staff have been told by Mr. Boisclair and his colleagues that the dialogue, the half a dozen or more presentations and reviews, and the compromises on both sides have resulted in a better project. Further, the HPC review process eliminated the necessity for several costly state and Federal reviews.

The Riverplace compromises worked out with the Boisclair people primarily concerned the issues of height and massing—sources of controversy from the beginning of the project—and their impact on the 125-year-old Our Lady of Lourdes Catholic Church. (More severe critics argue that the project is just plain





is a great deal of variety within the district.

Far greater potential for new construction exists, obviously, in non-residential districts, such as the Warehouse Preservation District. Here, existing structures are so commodious and well-built that there hasn't been much discussion of new construction.

Most of the work has been renovation for adaptive re-use, and the hottest issue St. Anthony Falls Historic District, provoked controversy in its earliest version (left) for its domineering proximity to the 125-year old Our Lady of Lourdes church. Revisions prompted by community preservation reviews led to reduced height, remassing that allows the landmark church breathing space (above).

inappropriate for an historic district.)

The height of both towers was reduced, and both were pulled back as far as possible from Lourdes Church and from Main Street, opening up substantially larger views of the church and reducing the mass near pedestrianoriented Main Street. A four-to-six story building height, comparable to the scale of existing commercial structures, was agreed to along Main Street and

Hennepin Avenue. HPC commissioners would like to think we had something to o with a change from aggressive, almost brutal forms to those that are ighter, more varied and incorporate lements of existing historic structures in the district. Of course, Post-Modernsm helped to turn the tide against nega-structures.

The HPC had two main concerns. One was the singularity and visibility of Our Lady of Lourdes Church. The ther was the fact that Block 1 plans northwest of Hennepin) called for the emolition of the old Ryan Livery Sta-

#### "The object of preservation has been achieved when there are no victims."

le (c.1880). We hoped to avoid the ind of time/space shock that occurs in he relationship between Richardson's rinity Church and I. M. Pei's Hanck Insurance Building in Boston, esecially because St. Anthony is a discit. District goals are distinctive: to reserve character, historicity, ambince, and memories of the past. District oals are not limited to the preservation f single indisputably significant structures. Further, Lourdes Church is a nore delicate design than Richardson's owerful masterpiece.

The livery stable, though not a great hasterpiece, is a major contributor to he character of the historic district. he HPC, charged with preserving ich structures, simply could not agree its demolition. If we are criticized or the cost and complexity of moving it Lourdes plaza, it should be rememered that the developer need not have roposed its demolition in the first lace. Now the guidelines for new conruction in the sub-districts of St. Anony are included in the Central Riveront Urban Design Guidelines adopted y the Minneapolis City Council on ecember 11, 1981. This is the real oal of preservationists: that all plans or new development start with a conderation of the existing significant fabc, and incorporate that fabric into new esigns.

In the course of working out St. Annony Falls district guidelines and
orking with the Boisclair people,
IPC commissioners learned a great
eal about the development process. We
ecame aware of the need for communiation and action prior to the review of
ermit requests, so we instituted the
re-permit concept approval. This beomes part of the public record and enoles developers of complex or fastacked projects to move ahead before
etailed construction drawings are cometed.

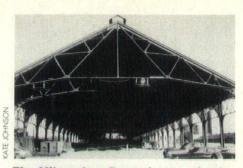
HPC's Commissioners have also approved footprints and released building permits for foundations so that construction could begin. And we are working to develop different review requirements for minor projects, in the interest of simplifying things for everyone. These accommodations are evidence of the willingness of the Commission to facilitate the growth of the city. It is reasonable to hope that these acts of good faith will be met with like kind on the part of architects, builders and developers.

This has not always been the case. Indeed, this article was written because twice within a year representatives from a Minneapolis architectural firm came before the HPC for a building permit, saying, "But we have to have it because the working drawings are already finished and we have to get the building up by such and such a date." Once, maybe; but twice looks like pressure and an unwillingness to take the process seriously. Again, a successful collaboration begins with early communication. The HPC needs to know what architects and developers are thinking of doing, and architects and developers need to know both Federal and local HPC guidelines and parameters for legal ac-

The Minneapolis HPC takes the meaning of the word "guidelines" literally. Variances are granted only "in cases where an applicant clearly demonstrates that an alternative design is a superior and compatible solution." The Milwaukee Depot, immediately adjacent to the West Bank Milling sub-district of the St. Anthony Falls Historic District, is the hottest area for development in Minneapolis right now. I can assure you that because the Milwaukee Depot is our only surviving train depot, and because there are only ten remaining such iron trainsheds in the whole country, there is no alternative to strict preservation of these structures.

The fact that the HPC's guidelines have been incorporated in the city's Central Riverfront Urban Design Guidelines illustrates the fact that preservation interests are firmly integrated with the interests and policies of the City of Minneapolis. We have a strong preservation ordinance, and its intentions and mechanics have been absorbed into the workings of the Department of Inspections, the Community Development Agency and the Planning Department. The HPC is an empowered arm of city government, working with other city agencies to protect the memory of what we've been in the past even as we strive to create the ideal city of the future. These goals were clearly evident in the various designs proposed recently for the Milwaukee Depot site.

The object of preservation has been



The Milwaukee Depot is one of only ten such remaining iron trainsheds in the country.

achieved when there are no victims; when nothing that has been identified as special or rare has to be sacrificed to the gods of progress. The City Center Project has become, from the point of view of both a preservationist and an economist, the way not to do it. The City of Minneapolis paid over a million dollars in a settlement to the owners of Scottie's (the former Forum Cafeteria) and incurred a deduction from the tax increment bonds-costs passed on, of course, to the taxpayers of Minneapolis. Members of the City Council have expressed (both publicly and privately) a determination never to do this again. This is the underlying reason for the City Council's financial support of the twoyear city architectural and historical resources survey, to be finished this April. Its object is to compile a base of information from which developers, designers and politicians may begin. These identified resources will be considered as givens. It hurts to know that after they declared in court that the Forum's wonderful old Beaux Arts facade was of no historic merit, the Oxford Properties Ltd. later decided it was distinctive enough to dismantle carefully for unspecified reassembly somewhere else. Their "all or nothing" stance, punctuated with nervous references to a secret prestige tenant who demanded an entire city block of floor space or the deal was off, was unnecessary and, most of all, uncreative.

The challenges to architects and developers are big ones, calling for new ways to look at old problems. Guidelines are essential. If nothing else, they force everyone to ask questions and to come up with answers; the harder the questions, the more interesting the answers! The Minneapolis Heritage Preservation Commission is committed to protecting the best of past designers' efforts while we work with you to build a city of meaning for the future.

Kate Johnson, a member of the Minneapolis Historic Preservation Commission, has been chairman of the Education Division at The Minneapolis Institute of Arts since 1979.

## How the Prairie School Wooed Small-Town Bankers

Louis Sullivan and his Schoolmates sold their flinty clients on quality architecture only when it was offered at going rates.



Merchant's National Bank, Winona, Minnesota. 1911–12. Architect: William G. Purcell and George G. Elmslie.

#### By Alan K. Lathrop

The small-town banks of Louis Sullivan and Purcell and Elmslie are exquisite amalgams of shrewd business and aesthetic principle. They embody their owner's pragmatism, their clientele's demand for confidence and stability, and their designer's visionary philosophies. These banks represent the climax of close, sustained cooperation between client and architect; they result from almost equal shares of ideas and aspirations. Each building was planned first to function and look like a bank; the exterior form naturally enwrapped the interior space to honestly reveal its structure and functions. Ornamented with

stained glass mosaic and terra cotta, these buildings also became artistic monuments to the architects, who were able to make beautiful what were essentially machines for commerce.

The bankers were all looking for personal, distinctive, contemporary structures and the right individuals to design them. They wanted architects with whom they could work and who understood that they wanted something noticeably new, but also something functional and economical. Although the Prairie School architects were urbane, progressive and idealistic, there is no solid evidence to explain why their generally small town and rural-oriented, conservative

clients were attracted to these men in particular.

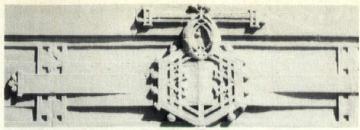
There are important differences between the way Sullivan secured his commissions and the way Purcell and Elmslie obtained theirs. Sullivan already enjoyed a wide reputation as an innovative designer by the time he worked on his first bank in Owatonna, Minnesota, in 1907. He was sought out by clients who had already either read of his work in the popular press or had heard of it from colleagues.

On the other hand, Purcell and Elmslie were not widely enough known to gain more than a very few commissions this way. Instead, they solicited projects by mail and through personal salesmanship. They became master propagandists both for their own talents and for the Prairie School style as a whole, while denouncing the popular, imitative Greek and Roman facades for debasing the forms from which they derived. Their polemical ideals as well as recommendations of previous clients, brought them several bank commissions in the Midwest.

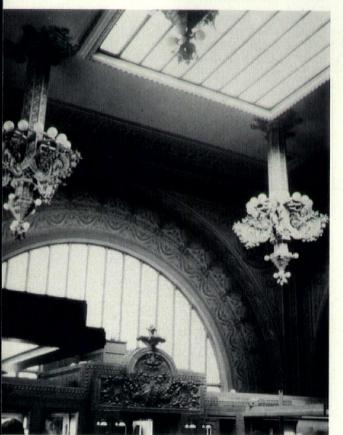
Once a commission was granted, the two firms took a parallel course in designing their structures. Sullivan's can best be seen in a letter h wrote very late in his career, in 1918, to a prospective banker client in Winterset, Iowa. He proposed to visit the town and carry out a "thorough and detailed investigation."



Detail of bronze chandelier in Owatonna bank.



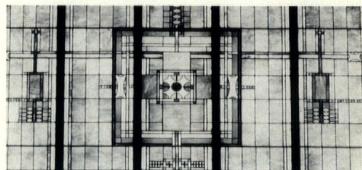
Carved sandstone overdoor to office annex, National Farmer's Bank, Owatonna.



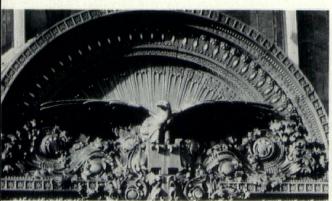
lolded plaster, stencilwork and cast bronze enrich inteor of Sullivan's bank.



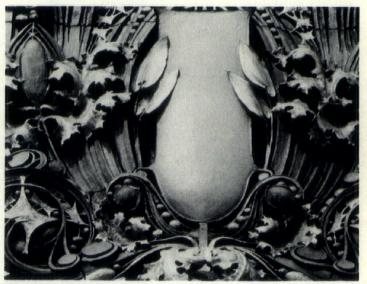
National Farmer's Bank, Owatonna. 1907—8. Louis Sullivan, assisted by George Elmslie.



Stained glass pattern extends beyond mullions in facade windows of Merchant's National Bank.



laborate terracotta detail drapes across doorway lintel n Purcell & Elmslie bank.



Elmslie's stylized organic forms in terracotta for Winona bank.

tigation of physical conditions . ." He would collect data "in general and in detail, the client's working needs, his special methods of doing business, special features desired, etc., etc., until I have in mind an intimate visualization of all these ideas, items, wants and wishes." He would then "work out immediately, in the client's office, a preliminary plan to scale . . . PLAN is the all-important thing. On its adequacy [depends] the smooth and efficient working of the business. All other considerations (interior and exterior) have their origin in the plan, and should, for the best results, grow out of it spontaneously."

After that, Sullivan would discuss the building program further with the client, ascertaining more precisely his needs ("heating, ventilating, lighting, etc.") and preferences in construction materials.

At the same time, Sullivan collected information about the site. This included soil, location of utilities, grade and definition of lot lines. An estimate of cost was then possible, and if the client was satisfied, Sullivan would prepare carefully drawn pencilsketches. "These should give to both client and architect a definite conception of the building program." The next step "is the drawing up of a contract for services between architect and client . . ."

Sullivan was chosen by Carl Bennett, owner and president of the National Farmers' Bank of Owatonna, Minnesota, after Bennett read Sullivan's essay, "What Is Architecture?," in a 1906 The Craftsman magazine. Bennett had long searched for a person to design the "true and lasting work of art" which he and his family wished to give to their town. Bennett appears to be one of the few banker clients who had an understanding of Sullivan's theories or knew why he wanted Sullivan to design his bank. Sullivan, in turn,

hoped to create a highly colorful "tone poem" for the banker. "I want a color symphony," he told Bennett, "and I am pretty sure I am going to get it." Their acquaintance developed into a friendship which lasted until Sullivan's death in 1924. Fred Shaver of Cedar Rap-

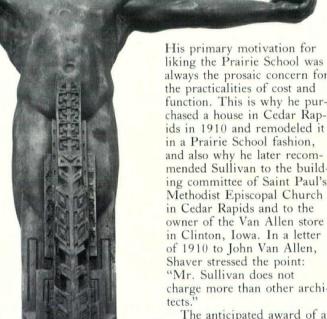
ids, Iowa, chairman of the building committee for the Peoples Savings Bank, sought out Sullivan after visiting Bennett's bank in Owatonna to custom design a small structure that expressed both his and the community's tastes. But Shaver was never more than a pragmatic businessman with minimal interest in artistic considerations.

His primary motivation for liking the Prairie School was always the prosaic concern for the practicalities of cost and function. This is why he purchased a house in Cedar Rapids in 1910 and remodeled it in a Prairie School fashion, and also why he later recommended Sullivan to the building committee of Saint Paul's Methodist Episcopal Church in Cedar Rapids and to the owner of the Van Allen store in Clinton, Iowa. In a letter of 1910 to John Van Allen, Shaver stressed the point: "Mr. Sullivan does not charge more than other archi-

The anticipated award of a commission for the new Merchants' National Bank in Grinnell, Iowa (1913-14), brought Sullivan and the Purcell and Elmslie partnership into brief competition for the first time. One of the directors, Benjamin Ricker, was in charge of finding an architect. Ricker was not totally unfamiliar with the Prairie School. In 1911, Walter Burley Griffin had designed a distinctly Prairie School house for Ricker. The ever-vigilant Carl Bennett notified Purcell in 1913 that Ricker was thinking of building a bank, prompting the Minneapolis-based architect to dash off a letter, enclosing, as he usually did, illustrations of his firm's best work and statements of its philosophy. After visiting Owatonna, Ricker eventually decided on Sullivan and invited him to Grinnell. There is no evidence to demonstrate that Ricker, like Shaver, was more than a casual admirer of the unique physical appearance Prairie School buildings presented. Instead, he was much more interested in their ability to function and to give him his money's worth. George Hamlin, president of the bank, wrote Purcell in 1913 that he was interested in a building that "was not expensive" but still "distinctive and possibly a little out of the ordinary as to appearance." Sullivan visited Grinnell in late November 1913, and sketched a building for the board of directors which eventually cost precisely the original estimate.

Purcell and Elmslie's approach to design varied only a little from Sullivan's. Write ing in 1914 to a prospective client in Moorhead, Minnesota, Purcell elucidated their methods: "Our study starts with the community, the commercial location of the banking office as well as the physical location, with the resulting effect on the building Every aspect, light, approach, materials, color, character of clientele, character of bank as held in the community, are carefully weighed, valued and allowed to accurately determine the several factors in the result." The outcome of this study, continued Elmslie, would be "a building which begins with your particular business and proceeds toward the building. In such a procedur a sort of a beautiful, high powered and accurately adjusted machine—rather than a building as we use the word—is what is developed. A machine or a structure in which every need of your business, every special method in conducting it, its character as held by the community, its location, and surroundings, all influence and find form in the resulting ap pearance of the building.'

Purcell and Elmslie received three bank commissions between 1910 and



Sculptor Richard Bock cre-ated "Spirit of Mercury" for Frank Lloyd Wright's City National Bank, Mason City, lowa.

912, all of them through dvertising and promotion by etter. At Grand Meadow, Minnesota, the partners along with George Feick, a hird principal in the firm intil 1913) dealt with a man named Elgar Greening, who vas willing to let them deign a highly functional but adically innovative structure. He was delighted with their reation, especially with their ttempts to create a friendier, less formal atmosphere between customers and tellers y eliminating the traditional ellers' cages. But despite Purcell's praise of their lient's willingness to indulge heir progressive whims, nowhere does he credit Greenng with a profound undertanding of the new rchitecture. Like their other lients, Greening was eduated by Purcell and Elmslie s the project went along, and vas quite impressed by their bility to deliver a structure vithin budget.

The next commission came n 1910 for the First Naional Bank in Rhinelander, Wisconsin. Their client was D. F. Recker, vice president. He convinced the directors hat the somewhat unusual lesign which the architects roposed in response to the eculiar problem, a bank inorporating main street shop ronts, was the best solution. he banking room was laced at the rear, behind the hops and a small arcade. It vas illuminated by a skylight nd large windows. From vidence contained in renarks written years later by urcell, the bank's executives vere chiefly and characteristially interested in the funconal layout. Appearance ounted so little in their coniderations that Purcell laeled them "unaesthetic small own businessmen" who were ersuaded to let Purcell and Ilmslie build the type of tructure they did because of the soundness of our ecoomic reasoning."

The firm's largest bank uilding was erected in Wiona in 1912–13. This was he Merchants' National ank, designed for a more ympathetic president and oard, who gave Purcell and Ilmslie a free hand to de-

velop their own design. Of all their banks, this one engendered in them the most pride. H. C. Garvin, the president of the rival First National Bank, had first commissioned the partners to design a new building for his bank. Garvin was a good friend of Purcell's father, a wealthy Chicago commodities broker; however, he was unable to convince the directors to buy Purcell and Elmslie's design. Instead, they voted to erect a fashionable Beaux-Arts facade. Later, at the Merchants' National Bank, Purcell and Elmslie were able to give full reign to their ideas. The bank's exterior was a prime example of Sullivan's

liever in cooperation between business and agriculture. Wheeler and his wife decided their bank must reflect their belief in the banker-farmer alliance, and for this the traditional, impassive classical facade would not do. They, like Carl Bennett, found Sullivan through The Craftsman and commissioned him after visiting Owatonna. Also like Bennett, they seemed to be very much interested in architectural or aesthetic considerations. But these still did not outweigh in their minds the need for a secure, workable space inside the bank.

Purcell and Elmslie reached their peak of creative without being queer." Again, economics were the primary consideration: Purcell and Elmslie were told by one of the members of the board of directors that they would not receive the commission if their bank exceeded \$10,000 by even so much as \$100. They met the challenge.

There is no clear evidence that any of the banker clients of Sullivan or Purcell and Elmslie were strongly attracted to the Prairie School aesthetic. All of them were searching for architects who could deliver customized, individualized buildings at the lowest possible cost and which, above everything else,



Exterior detail from Sullivan's Northwestern National Bank, Owatonna.

principle that the walls must be "plastic," a mechanical enclosure for the functional spaces inside. Exterior forms emerged organically as functions were defined, honestly expressing those activities. Terra cotta ornament "honored" the integrity and vitality of the wall. Large opalescent glass windows and a complementary skylight provided diffuse yet adequate light to the banking room and offices.

Between 1914 and 1919, Sullivan and Purcell and Elmslie each built three more small town banks. Sullivan's final project was the Farmers' and Merchants Union Bank of Columbus, Wisconsin. His client, J. Russell Wheeler, was a long-time be-

ability at Winona and maintained that plateau through successive banks at Madison, LeRoy, and Hector, Minnesota. At LeRoy, Purcell met his stiffest challenge in keeping construction costs within the original estimate of \$10,000. To do it, he and Elmslie eliminated all decorative terra cotta from the exterior, resulting in a building that was, as Purcell wrote later, "at best all too severe in character, and greatly needed the life which color and pattern . . . would have given the facade. The interior, however, is interesting and practical in every way, a perfect little country bank full of light and sunshine, very conveniently arranged and interestingly modern

worked. It is a lasting tribute to both bankers and architects that each remained sensitive to the other's concerns and thus were able to achieve their objectives in nearly every case. This remarkable relationship produced banks when flexibility accommodated the changing demands of owners and users. Their designs are enduring monuments of American culture. Alan K. Lathrop is Curator of the Northwest Architectural Archives, University of Minnesota Libraries. This essay will appear in the copyrighted catalog of the exhibition, "Prairie School Architecture in Minnesota, Iowa and Wisconsin," at the Minnesota Museum of Art, Landmark Center, St. Paul, February 14-April 10.

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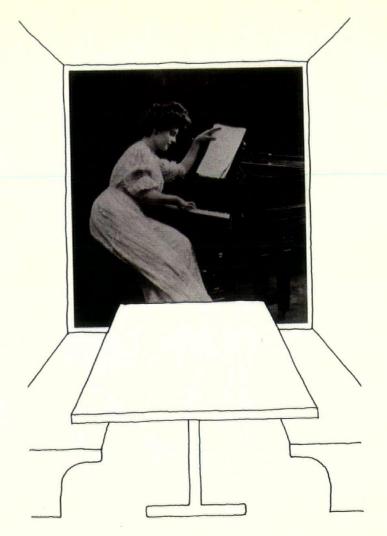
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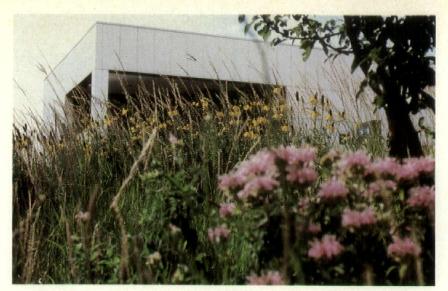
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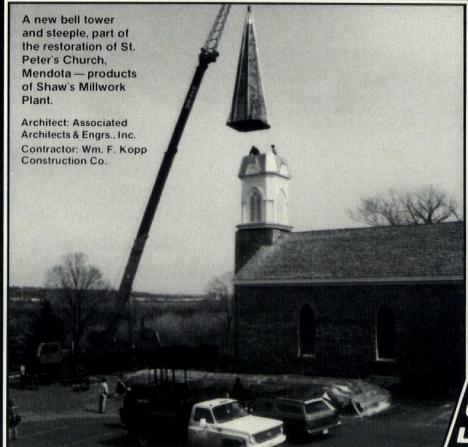
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#### news, notes & opinions

(Continued from page 14)

walls of the aquifer are expected to heat up in an hourglass-shaped configuration-which scientists call a "heat storage bubble"—and keep the water hot. When the water is withdrawn, the scientists predict that 80 percent of the heat can be recaptured by a heat exchanger. Each step of the process will take eight days.

Because nearly three-fourths of all major American cities lie over aquifers of some kind, this storage of heat energy has great potential for solar and district heating, says James O'Gara, engineer and aquifer project director at the University. Smaller projects using cool water have begun in Stonybrook, New York, and with warmer water in Bethel, Alaska, at Auburn University in Alabama, and in several European and Far Eastern countries. Minnesota's is the only attempt to test the feasibility of injecting heat in the summer, then retrieving it for use in winter.

If the first experiment succeeds as planned, four more will be undertaken at increasing water temperatures. Throughout, extensive biological, geological and chemical analyses of soil samples from the heat bubble will be conducted; changes in water temperature, pressure and flow rate will also be monitored to assure that the potability of the groundwater is unaffected by the

experiments.

Eventually, project engineers hope to conduct a test at 150 C (302 F) for a total cycle of 180 days, creating a fivemegawatt thermopower system. If successful, the University will then decide whether to ask the Federal Department of Energy (DOE) to fund a full-scale demonstration system that could save an estimated 30 percent of the raw energy costs for the St. Paul campus.

#### First Architectural Film Library organized

Despite the almost ubiquitous nature of the visual media today, quality films about architects and architecture are inexplicably rare. To redress this situation as well as make a permanent film record of significant buildings and architects before they are gone, Richard Snibbe, FAIA, has organized The Architectural Film Library.

Located in New York City, it is a member-supported, nonprofit organization with a staff of twelve TV and film professionals. They will produce films and videotapes about architecture for a general audience and distribute them to organizations inside and outside the profession. Members can use their services at cost.

"The Gropius Legacy," featuring the work and teachings of Walter Gropius, will be the first film produced by The Architectural Film Library.

For more information about The Architectural Film Library, contact Snibbes Inc., 77 Irving Place, New York, NY, 10003, (212) 475-1730.

#### Now on sale: MSAIA Energy Sourcebook

Organized according to the design process, the MSAIA Energy Sourcebook is an open-ended retrieval system for energy information. The articles are purposely short and each is reviewed for its technical content by a specialist in that field. The Energy Committee promises that articles will be updated as new information is generated. New batches of articles will be mailed out to subscribers quarterly. Peter Herzog, AIA, chairman of the Energy Committee, says the goal of the MSAIA Energy Sourcebook is "to help architects reduce energy use in buildings by providing a forum for sharing energy information they have learned through research and design experience."

The project was backed by nearly \$24,000 in grants by the Minnesota Energy Agency.

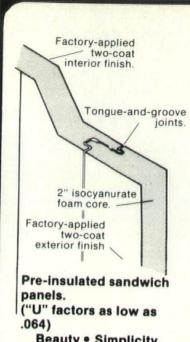
#### Larsen/Rova captures KTCA "Dream House" design competition

For the second year in a row, a "Dream House" will be auctioned by St. Paul PBS station KTCA as part of its "Action Auction" to raise money for station operations.

The architect of the "Dream House," Richard Schaeffer of Larsen/Rova Associates, Minnetonka, was chosen this year through a competition held by the Minnesota Society American Institute of Architects. The judges, who reviewed over 30 plans, were: Eric Canton of Canton Corporations; Robert Buckler, the public affairs representative for the Minnesota Forest Industries Information Committee; Cheryl Kohout, KTCA Auction Manager; and architects James Lammers, AIA, Hills Gilbertson Architects, and Bruce Wright, AIA, AM's managing editor.

Sheila Bayle of KTCA said the house is valued at \$135,900. Last year's "Dream House" was valued at \$109,500 and auctioned for \$95,000. While most of the labor and materials are donated, some of the proceeds pay construction bills.

The Action Auction will be held May 14–22 on KTCA.



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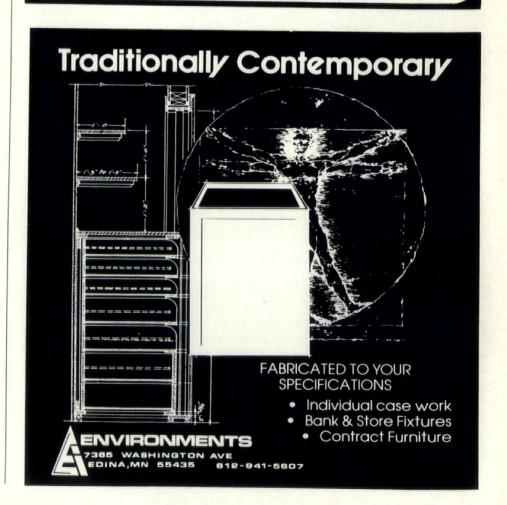
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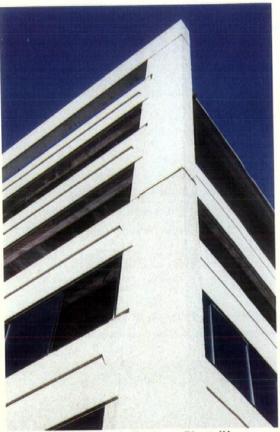
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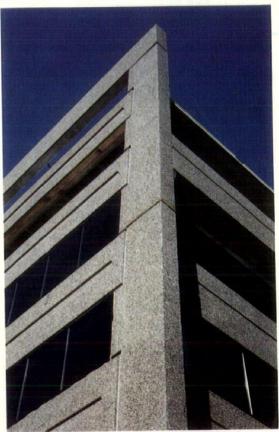
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#### Dwyer Cooks Up A Better Kitchen

Dwyer Products Corporation has succeeded in doing what other American companies have tried and mostly failed to do: it has designed kitchen units that are handsome in their own right and appropriate anywhere.

Most packaged kitchens look like either hi-sci labs, with their stainless steeleverything, or like camouflaged office furniture. Dwyer has realized that neither image fits the actual function of the compact kitchen, which is mainly to heat or chill already-prepared food.

The company was manufacturing some of the better-looking compact kitchens when it decided to refine their designs a year ago to compete more effectively, particularly with imports. Dwyer's engineering and marketing staff made the changes in-house, the results of which should give Dwyer a promising new position in a tough market.

Basically, they redesigned and repositioned the cabinet handles, stripped away unnecessary metal trim and combined the faucet function with the

Now placed vertically on the upper cabinets and horizontally on the lower ones, the well-styled handles make the kitchen's form more like a single piece of furniture. Their size is generous enough for the largest hand to grasp.

enough for the largest hand to grasp. Venting now consists of a simple row of vertical slits in elegant contrast to the circular burner knobs.

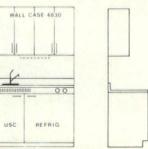
As a final touch, the company removed the metal Dwyer name plate and replaced it with understated lettering painted directly on the cabinet door.

The result of modifying these few details is a far classier and more functional looking line of compact kitchens.

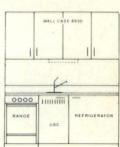
Dwyer manufacturers all components of its kitchens, except the microwave oven and icemaker, and willingly modifies any of its standard models. It claims its ranges and refrigerators, being designed primarily for commercial and industrial use, have a greater lifespan than most standard kitchen appliances. Dwyer has been in business 50 years.







Models show thoughtful details Dwyer didn't have to change: seamless porcelin-on-steel counters; concealed hinges; and appliance doors that match cabinets. Inside shelves roll out. All components can be rearranged for the customer.



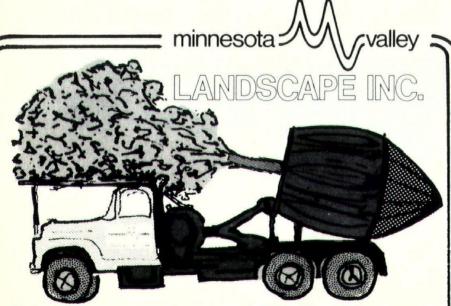
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#### Not ready to buy art? Then rent it

Often nowadays, that arresting abstract painting you passed in a corporate foyer was not their's but a gallery's. The corporation just rents it.

You, too, can rent art to enhance your surroundings; several Twin Cities galleries and museums are happy to oblige you. The cost is generally modest, and while you won't find any Warhols, you may choose from a goodly range of regional artists. All galleries in the rental business can help you select your artwork, and some will visit the place—home or office—where you'd like to display a piece and counsel you in its selection. Occasionally, what you rent may be purchased.

The following is a list of places where artwork may be rented.

#### ART LENDING GALLERY 25 GROVELAND TERRACE MINNEAPOLIS

If you appreciate Realism, the Art Lending Gallery—also known as The Groveland Gallery—offers about 300 paintings by regional artists who work in that style. Gallery director Mary Lundrigan says that most people rent with the idea of buying a piece to live with it before making a decision.

Any painting worth less than \$350 rents for \$10 a month; three percent of the retail price is charged for paintings of higher value. If you decide to purchase a painting, Lundrigan will subtract up to four months of the rental fee, depending on its value, which may be as high as \$3,000.

Hours: 12:00-5:00, Tuesday-Friday; 12:00-4:00 Saturday.

#### FRIENDS GALLERY MINNEAPOLIS INSTITUTE OF ARTS 2400 THIRD AVENUE SOUTH MINNEAPOLIS

Like the Art Lending Gallery, the Friends Gallery features paintings by regional artists, but to rent from this source, you must be a member of the Institute.

The rate is ten percent of the purchase price for a two-month period. The gallery prefers not to rent from its relatively modest-size collection for longer periods to keep the paintings visible to potential buyers. The staff will assist any individual or business in selecting a group of paintings. The rate is the

Hours: 10:00-5:00, Tuesday-Saturday; 12:00-4:30 Sunday.

C. G. REIN GALLERIES 3646 WEST 70TH ST., EDINA 165 NORTHSTAR CENTER, MINNEAPOLIS

Corporate offices are the primary customers for C. G. Rein. The gallery's 10,000-piece collection-all of which may be leased or purchased—represents a wide range of artistic expression and media from the 19th century to the present.

The minimum lease agreement of \$3,400, based on one-and-one-half percent of the retail value, requires the customer to select nearly \$22,700 worth of art. An additional ten cents per \$100 of value is charged for insurance costs. A percentage of the lease can be applied to a purchase.

Hours: 10:00-9:00 Monday-Friday, 10:00-6:00 Saturday; 12:00-5:00 Sunday.

MINNESOTA MUSEUM OF ART ST. PETER AT KELLOGG BLVD.

Only a business firm may rent art from St. Paul's Minnesota Museum of Art. Curator Tom Holman says the staff selects the art after meeting with the client, then installs it and adjusts available light. The client pays \$100 to \$300 per artwork, depending on the area to be filled, not the value of the piece. The art will be changed or roated after six months as part of the yearly contract.

Up to 100 pieces may be rented from he Museum's Community Service Collection, which includes drawings, paintngs, photography, and some sculpture and tapestries. Holman says most are 20th century creations. None of them

may be purchased.

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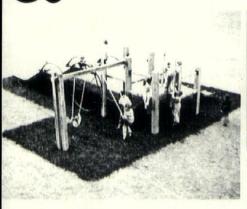
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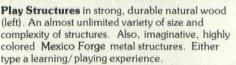
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#### letter from the publisher



How important is the architect in the building process? Architects themselves, as well as those of us who appreciate their work, would like to believe they are essentially important.

Yet some of the findings in a two-year analysis of the practice of architecture by the National Council of Architectural Boards suggest the role of the architect may be smaller and certainly different than it is generally assumed to be. Such an inference can be drawn from the observations volunteered by "major users of architectural services" who took part in structured panel discussion staged as one aspect of the NCARB study. Forty-three panel participants—individuals from both the public and private sectors who are responsible for the selection and supervision of architects—expressed their views on a broad

range of topics. Some of the most significant were these:

Site Selection and Analysis: "Slightly more than half the users indicated that the site for construction is almost always selected before the architect is involved in the project . . . only five of the users regularly include the architect as a full participant in the site analysis process, and none of these expect the architect to play the lead in this phase". Design: "The participants overwhelmingly agreed that design is the purview of the architect," but many large, private sector representatives on the panel are limiting the freedom of the architect in the design phase. Construction: Just nineteen of the forty-three participants assign the architect full responsibility for supervising the work of the general contractor during the construction phase. Summary: Most of the special group of panelists agree that the process of planning, designing and constructing a building has become much more complicated and difficult in the last several years. Technological innovations have vastly expanded the knowledge base that an architect must acquire if he or she is to retain a "master builder" role. Response: Since the NCARB panelists in their assessment say the architect's role is being "more narrowly defined", what might be the correct response by architects? May I suggest several arguments to bolster the case for more, not less, leadership by architects in the building process.

Architects are growing professionally with the technological advances occurring in the industry. If anything, architects are better qualified than most others by virtue of their first duty to be designers and to keep technology properly subservient to the demonstrably

worthwhile goals of society.

Architects are no less the generalists than they have always been;

and who better than a generalist to lead the team?

Shouldn't architects possessive of "process" and "artistic" skills occupy a place of prominence around the decision-making tables? Certainly architects can contribute in many ways. Principally, their contributions will not only help the "return on investment" calculations but will provide for beauty, delight and environmental harmony.

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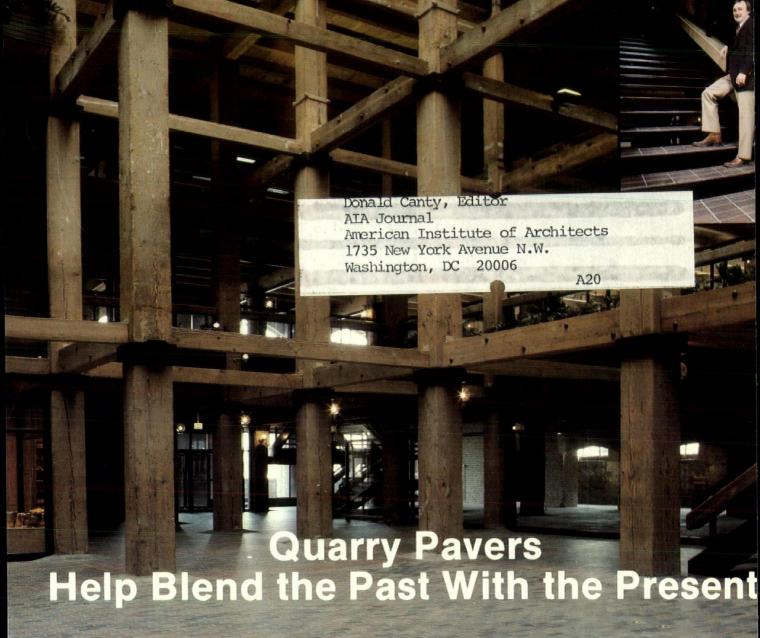
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IN 1906 ARCHITECT HARRY WILD JONES designed the Butler Building destined for the National Register of Historic Places. Three quarters of a century later, architect Arvid Elness (pictured) and project designer Victor Zeuthen successfully combined "sensitivity and restraint while integrating new design elements with the structure's historic character."

Today, although Butler Square's fortress-like exterior looks exactly like it did when built, it is amazingly changed inside. Within the newly completed West portion (Phase II) an open-air atrium soars upward for nine stories. Serviceably harmonizing with what Elness calls the "egg crate effect" of timber post and beam skeletons are rectangular 4" x 8" ceramic tile quarry pavers (10,000 square feet) on courtyard walk areas and staircases. To retain the original irregularities of the floor, the pavers were laid directly on the existing slab using a thin mortar bed.

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