You're looking at twelve good reasons to stock up on Aqua Glass products.

Luxurious whirlpools. Soothing steam baths. Three-piece remodeling units. Spas. Doors. Lavatories. Tub/shower modules. We even have a complete line of Special Care products for the handicapped. In all the colors, shapes, sizes and price ranges you need to stay competitive in your business.

But if looks alone won't sell you, maybe our quality will.

All Aqua Glass units are formed of high-tech acrylic and gelcoat and backed with extra layers of insulation for a solid, sturdy look and feel. Our products are so good, we offer a 5-year warranty on every unit we make.

When you help yourself to the Aqua Glass product line you save time and money. Because we have our own fleet of vans, an Aqua Glass distributor is able to mix shipments of all product lines to receive truckload quantities. And we guarantee quick delivery.

We also guarantee dependable service. We stand behind our products and the people who sell them 100%.

Quality products. A broad product line. And excellent service. Three good reasons to take advantage of all we have to offer.

You'll be helping yourself when you do.

For more information, call 1-800-238-3940 toll free. In Tennessee call 1-800-542-5806. Or write Aqua Glass Corporation, P.O. Box 412, Adamsville, Tennessee 38310.

Local Distributor: Stickler & Associates, Inc. • 333 N. 121st St., Milwaukee, WI 53226 • 1-414-771-0400
Wisconsin Society of Architects Board of Directors: Dennis L. Olson, AIA, President; Jay A. McLean, AIA, Vice President; H. James Gabriel, AIA, Past President; Daniel J. Becker, AIA, Kevin J. Connolly, AIA; Robert H. Grapentin, AIA; Erik A. Jensen, AIA; Douglas N. Kozel, AIA; James E. Larson, AIA; Richard D. Michael, AIA; Karen Newhouse (MSOE); Mark A. Pillar, FAIA; Ross T. Porter, AIA; E. Mitchell Spencer, AIA; Noble E. Rose, AIA; David Reel (UWM SARUP); Harry A. Schoneder, AIA; Kevin B. Shumann (Associate); Modesto Tavarez, AIA; William M. Babcock, Executive Director.

Wisconsin Society of Architects/AIA: 321 South Hamilton Street, Madison, Wisconsin 53703 — Phone (608) 257-8477.

Wisconsin Architects Foundation Board of Directors: Greg Smun, Madison, Wisconsin 53703 — Phone (608) 257-8477:

Wisconsin Architect, Inc.; Board of Directors: Dennis L. Olson, AIA; Jay A. McLean, AIA; H. James Gabriel, AIA; Richard W. Eschner, AIA.

Wisconsin Architect Editorial Board: Peter J. Schuyler, AIA, Chairman; C. Levonne Laughinghouse; Robert C. Greensstreet; Douglas C. Ryhr, Steve Quinn; William M. Babcock.

Magazine Staff
Editor
William Babcock
Coordinating Editor
Grace Stith
Advertising & Production Manager
Nancy Baxter

Cover: Christ Presbyterian Church
Bowen Williamson Zimmerman, Inc. Architects
Photographer: Eric Oxendorf

Wisconsin Society of Architects
American Institute of Architects
April 1989

WISCONSIN

Features
17 The Beginnings Of Jones Valley Landscape
Robert B. Graves
18 A Serious Attempt At Utopian Landscape
Robert Greenstreet
22 Topophobia — A Fear of Specific Spaces
M. Caren Connolly

Projects
5 Christ Presbyterian Church
Bowen Williamson Zimmerman, Inc.
14 Dain Bosworth/The Milwaukee Company
Herbst Epstein Keller & Chadke, Inc.
15 Arthur Young International
Potter Lawson & Pavlovsky, Inc.
16 Goldi Shoes
Kubala Washatko Architects, Inc.

Departments
7 Guidelines
26 Forum
30 Society News
34 Marketplace
34 Advertiser Index

WISCONSIN ARCHITECT serves the construction industry in Wisconsin with circulation to Architects, Engineers, General Contractors, Business and Interior Designers, Landscape Architects, Certified Planners, Developers, Specifiers, Construction Managers, Builders, Manufacturers, Suppliers. Wisconsin Architect is the official publication of the Wisconsin Society of Architects/A.I.A., published by Wisconsin Architect, Inc. Address all editorial and advertising inquiries to: Editor, Wisconsin Architect, 321 S. Hamilton St., Madison, WI 53703; phone (608) 257-8477.

Wisconsin Architect and the WSA disclaim liability for statements by the editors, contributors, and advertisers.
The Acceptable Greenhouse Effect

Wisconsin Solar Design
414-444-1639  608-831-2112
Greenhouses
Solariums
Skylights
Specializing in Glass Design & Structural Engineering

Let us know 4-6 weeks in advance so that you won't miss a single issue of Wisconsin Architect. Please include a copy of the old label.

New Address:
Name __________________________
Address _________________________
City, State, Zip ___________________
Clear Advantage

Profile™ Shower. To get a shower into better shape, look for a better angle. The Profile Shower by Kohler. It gives a bath a spacious, modern look. A clear-cut solution because it can work as a one, two or three-sided shower, in a corner or against a single wall. Profile Shower’s heavy tempered-glass doors come in a variety of sizes, with posts and receptor in decorator colors, and all-black gloss hardware. Versatile. Elegant. From all sides, the Profile Shower is a clear improvement.
Let Fly Ash do great things for your concrete.

Fly Ash can do some great things for concrete. It can make it stronger and more workable; it can increase density; it can increase resistance to leaching, acid or alkali attack.

Powder-fine Fly Ash also has great lubricating effects. It makes concrete easier to pump, flow and finish. It fills forms completely. Gives you sharper, chip-resistant edges and fine details. And since Fly Ash concrete takes less water, it's more impervious.

The best thing is, Fly Ash does all this for your concrete without costing you more.

Fly Ash is available from two Wisconsin Public Service power plant locations, Green Bay and Wausau, and includes the highly desirable Fly Ash produced from low sulfur western coal, available from our electric plant (Weston 3) in Wausau. Careful monitoring and regular lab testing insures the best quality Fly Ash possible. You also receive professional services offered by Contech, Inc., Minneapolis, our Fly Ash marketing agent.

Fly Ash. Just what you need for better concrete at lower cost in foundations, garages, driveways, floors, walls, pools, and roads. Let Fly Ash do great things for your concrete!
Architects are concentrating more design effort on interior space, giving its creation equal billing with the building shell. Design of interior space is the culmination of a building’s architectural statement. Concepts carefully expressed in exterior form can occur in more playful form in an interior space. This allows our human craving for novelty to find expression in interiors since it is often a less permanent element of the building and more adaptable to change.

Volume, proportion, color and lighting are powerful design tools which can be utilized even under the constraints of a tight budget to create an intriguing interior.

A continuation of the design concept expressed in the medium of interior materials and the solution that enhances the occupant’s use of space, kindles the feeling deep within us that we have entered a memorable space.

Mary A. Lawson, AIA
Why the most advanced CAD system for architects and building designers puts you on the edge.

And keeps you there.

Today, there is a revolutionary CAD system that puts you on the edge — the competitive edge. A CAD system that goes far beyond the ordinary, and gives you the edge in production, presentations, plus a lot more.

The name of this system is ARRIS™. And it is the remarkable system that will instantly show you why ordinary CAD is no longer enough for architecture and building design and management.

THE COMPETITIVE EDGE IN PRODUCTION.

With ARRIS, you don’t have to make drawings line by line. Instead, you enter basic design parameters — and let the system do the rest of the work, automatically. So more work gets done, in less time.

THE COMPETITIVE EDGE IN PRESENTATIONS.

With ARRIS, you can create extraordinary design and marketing presentations that help you win more business. For example, ARRIS 3D modeling and rendering allows you and your clients to view your project from any perspective, at any angle, at any time of night or day. And to “walk through” rooms as if they really existed.

PLUS.

ARRIS allows your project teams to share data, drawings and systems — so they can work on entire projects, not just single drawings. Plus, ARRIS will grow as you grow, so you keep your competitive edge.

So be sure to call today for our free ARRIS demonstration. We're your ARRIS Power Dealer — and we can show you how ARRIS provides extraordinary CAD capabilities. And we can also provide you with the very best in training, service, and support. Call now to get the competitive edge.

You can get the competitive edge at:

CADS, INC
2221 E. Capitol Drive
Milwaukee, WI 53211

(414) 481-1223
You expect hardwood floors and walls to be beautiful. But beauty that endures for generations requires something special. Like the Woods of Woodruff's solid 3/4" thickness and our specially grooved backsides that provide lifetimes of stability and warping protection.

For your next project, consider the Woods of Woodruff. In Ash, Oak or Cherry. You'll discover a superior product that's produced close to home - and is delivered on time.

Please clip and mail our coupon for a free color brochure and/or a sample of the Woods of Woodruff.

Pukall Lumber Company
10894 Hwy. 70 East
Woodruff, WI 54568
Phone 715 /356-3252
The remodeled sanctuary, while retaining its liturgical focus, was transformed into a powerful participatory space by subtle variations of color and lighting. Rich fabric and wood dossal screen add contrast; the chrome band surrounding the inset cross adds richness.

Acoustics for choir, musical instruments, and the spoken word are excellent. Many hours of planning went into the final design of this special use interior space.

Photography: Eric Oxendorf
Faster than a speeding bullet, more powerful than a locomotive, able to build complex buildings with amazing skill...

...and who, disguised as the mild-mannered Kraemer Brothers from Plain, Wisconsin perform incredible feats of construction excellence. Whether it's an airport, hotel, office or supermarket, they are fast becoming a legend in their own time. They consistently and successfully build projects that are the result of careful planning, skilled craftsmanship, and a close working relationship between owner, architect and builder.

In pre-selecting Kraemer Brothers as your building contractor, you're assured a certain degree of heroism. Promises made are promises kept—your project is completed on time and on budget. What's more, they're always there for you, upholding a long-standing family tradition as champions of quality, efficiency, and just plain old hard work. Want to know more?

Call Kraemer Brothers and talk to a Kraemer.

608-546-2411

KRAEMER BROTHERS
GENERAL CONTRACTOR
925 Park Avenue
Plain, Wisconsin 53577

Let us know 4-6 weeks in advance so that you won't miss a single issue of Wisconsin Architect. Please include a copy of the old label.

New Address:
Name __________________________
Address __________________________
City, State, Zip __________________________

THE MANISTEE BENCH
The new Manistee Bench invites use, and can withstand it because of the heavy duty welded frame and panel construction.

The back and seat curve gently to provide elegant, comfortable support. The selection of either metal grid or perforated seat panels gives you a choice in appearance and texture.

Electrostatically applied powdercoat colors provide a beautiful, long lasting finish.

Made in the USA.

LANDSCAPE FORMS
LFI/Landscape Forms
Bill Quinlan
2140 Halstead
Chicago, IL 60657
312/871-8810

Simple, elegant, distinctive.
Systems Managers, Architects, Designers:

More than an Opening Move—GIS Systems Offers
The Winning Strategy.

Chess Masters know that success depends on having a winning strategy in place right from the opening move. This same game plan holds true when selecting the right vendor for your CAD purchase.

At GIS Systems, we believe winning the CAD game means more than buying a computer and software. It also means having the right vendor that can help you put it all together with:

- A fully trained staff of experienced and knowledgable hardware and software applications engineers.
- Complete system training in our training center, or on-site.
- After-sale support and service.
- Plotting output service bureau.
- Custom software development services.
- Corporate-wide networking strategies and implementation.
- A commitment to your satisfaction from start to finish.

Developing your winning strategy for CAD begins by discussing your CAD needs and concerns with a knowledgable and professional GIS Systems account representative. Our representative will work with you to develop and execute a winning strategy, from opening gambit to final move.

With your winning strategy in place, we want to be sure that when you hear “Checkmate” it won’t be coming from your competition.

GIS Systems
Grambsch Information Systems, Inc.
300 North First Avenue
Minneapolis, MN 55401
(612) 342-9200

Sun: Providing you with the winning edge.

Sun Microsystems is the leading manufacturer of high performance CAD workstations, integrating industry standards with new innovations and ease of use.

- Powerful, industry standard UNIX operating system.
- Industry standard MS-DOS.
- Run both UNIX AND MS-DOS CONCURRENTLY through easy to use windows and icons.
- Built-in, industry standard networking compliments your corporate networking scheme—rather than confusing it.
- Workstation performance; affordable PC price.

ARRIS: The winning move in software.

ARRIS is the leading micro-computer based CAD package specifically designed for A/E/C and Facilities Management markets. Powerful, yet easy to use.

- ARRIS works the way you do.
- Project oriented, not drawing oriented.
- ARRIS is designed for multiple users to all access the same project database with full control, without risk of lost data.
- True 3D database.
- Fully integrated modules. No clumsy translations.
- Easily customized for company standards or personal use.
- Realistic renderings and walk-throughs.
- Complete BOM reports.
- Full programming language for special applications.
Occupying a total of 42,000 square feet, on four floors of the Kennedy II office building in downtown Milwaukee, is the brokerage house of Dain Bosworth/The Milwaukee Company. With the flexibility of being the building's anchor tenant, various stacking plans were developed to help the client determine which of the six floors were best suited to their needs.

Once the appropriate stacking plan was decided, the interior design team tackled the challenge of combining existing freestanding furniture with a new panel system. The goal of this project—to integrate Dain Bosworth's traditional image within a contemporary setting—was accomplished with use of traditional detailing and a neutral color palette. Dramatic punch was added at the reception areas which occur on each floor.

The simplicity of this scheme focuses attention on the spectacular city views and creates an aura of calm in a fast-paced operation.
The Madison branch of this “big eight” accounting firm is the smallest satellite created by this international firm. They wished to convey a progressive image at a highly visible downtown location.

A successful mix of colors, finishes and details plays a major role in achieving the opposing characteristics of progressiveness. Richly detailed molding is found throughout the space, along with beautifully panelled solid wood doors.

The space plan features private management offices and secretarial areas around the perimeter window walls, with open office workstations located on the interior of the suite. This was done for two reasons. The majority of personnel in the firm are auditors, and their position requires that they spend most of the day out of the office. By placing the audit staff in the paneled workstations on the interior, the window wall space could be used by the staff who are in the office all day.

The view of the State Capitol from the conference room and private offices makes this downtown location a perfect place to meet with clients.

**Photography: Eric Oxendorf**
Goldi Shoes
Bloomingdales, Chicago, IL
Kubala Washatko Architects, Inc.

Goldi requested a store that would combine both classic Roman and Memphis-style themes in order to "bombard the senses" with a spirit of exuberance and compete effectively with many fine stores for the customer's attention. A challenge was to create a design which would draw customers to the back of an increasingly constricted space. The solution was to array the opposing styles along either side of an earthquake crack as if something went awry. The customers eagerly straddle the two dimensions—one step in reality and one step beyond. As one customer put it, the Memphis side "seems like a television with the colors turned up too high." The classic side, a soft fusion of muted hues and gently reassuring shapes seems somehow enduring by contrast.

The much needed illusion of space is created through the use of mirrors, light and color. Mirrors in the classical niches visually expand the store and reflect the sixteen-foot vaulted ceiling. Lighting, emanating from strange places, helps to enlarge the space while highlighting the shoes which, unlikely as it may seem, remain the store's centerpiece.
The Beginnings Of Jones Valley Landscape

By Robert B. Graves

My first introduction to the Valley was in May of 1941, when I moved here with my family. My father was a high school Ag teacher, and was hired by Mr. Wright to manage the farm property, which at that time consisted of approximately six hundred acres.

It was a beautiful pastoral landscape. We did not have public power because Mr. Wright would not allow utility poles on his property. We generated our own electricity, and had an internal telephone system between the four building complexes.

What fences we had were steel posts with the tops bent over, forming a post which resembled a walking cane. We strip cropped and contoured all the fields on the property, and for years continued to shuck the corn and grain because of Mr. Wright's wish to enhance the visual quality of the fields in the autumn.

We devoted a good deal of time to the maintenance of the road sides, both along the public roads and our own interior roads. Each year, when Mr. Wright and the Taliesin Fellowship returned from Arizona — including the last spring he was here (1958) — we planted the road sides through the Valley with a variety of trees and flowers.

After graduating from the University of Wisconsin School of Landscape Architecture in 1956, I returned to the Valley and worked closely with Mr. Wright for the last three years of his life in the landscaping of it. We planted what Mr. Wright referred to as a green belt from Hillside to the Unity Chapel where he was to be buried. We also landscaped a triangle at the intersection of Highway 23 and County Trunk C, which became a beautiful entrance garden.

In the spring of 1956 we planted two truck loads of evergreens — from Hillside Home School, following Highway 23 to the intersection of County Trunk C and then following County Trunk C to the intersection of Highway 14.

Mr. Wright decided at that point we should do a grouping of seven mixed pine and juniper trees. Where he wanted them planted, however, was on the highway right-of-way. I informed him of that fact and he suggested that we go ahead and plant them anyway — to test his theory that the Department of Transportation had no concern for beauty. The trees were cut down within the week.

I believe that the landscape of the Valley was equally as important to Mr. Wright as the structures he built here. It has been a challenge for all of us to maintain the integrity of this landscape as it was perceived by Mr. Wright — a challenge that we, as landscape architects and architects, have accepted.

Robert Graves is a landscape architect who currently is in practice with his son in the Jones Valley and who is the manager of the Spring Green Restaurant. A former pupil of Frank Lloyd Wright and long-time resident of the area, he provides a few thoughts on his early landscaping experiences with the Master.
Wisconsin is a particularly attractive state, and one of its areas of finest natural beauty lies less than an hour west of Madison in the Spring Green region, particularly along the Jones Valley. Of course, it is an area rich in architectural heritage and has, in the last few years, commanded a great deal of attention and concern for its future.

The reasons for the heightened activity in this quiet, pastoral setting are twofold; firstly, continued financial problems experienced by the Taliesin Fellowship in adequately maintaining the Frank Lloyd Wright buildings on their land have become critical and require serious attention and a massive infusion of funds if the structures are to remain intact. Secondly, interest has been sharpened by the recent acquisition of the golf course and restaurant (again, designed by Frank Lloyd Wright, his only design of this kind) by a European company which intends to develop the area and expand the existing facilities to include condominiums and a hotel.

To address the first problem, Governor Tommy Thompson established a high powered Task Force to prepare recommendations on the future of Taliesin. This group, which includes members of the Fellowship and Marshall Erdmann and David Uihlein, AIA, has been meeting regularly for a number of months and, at the time of writing, are in the final stages of
Far left, Midway, the farm buildings. Left, Wyoming Valley School, the only public building design by Wright using tax money. Below, Hillside School. On the following page, Romeo and Juliet, windmill Wright designed for his aunts.

preparing their report. It is hoped by many that the Governor will then act to help restore and maintain what has become a vitally important architectural icon in Wisconsin by providing some State assistance.

The second event to bring potential change to a region which has remained unaltered for so long, the purchase of the golf course and plans for its development, brings with it many opportunities for improvement and tourism. This could benefit both the Jones Valley, the adjacent townships and ultimately Taliesin itself. However, this is an area of extreme natural beauty where buildings to date have been integrated into the natural landscape with sensitivity and subtlety. There is therefore an inevitable concern that a massive influx of tourists and associated facilities will mar the existing balance in the Valley and reduce the area to an overdeveloped tourist trap.

For this reason, the School of Architecture and Urban Planning (SARUP) at the University of Wisconsin-Milwaukee, as part of its public service mission to the State, is in the process of preparing a master plan for the region. Euroactividades, the company which purchased the site, asked the School to undertake the study and make recommendations, as they were anxious that their plans for development would not impact
negatively on the rest of the Valley. A team of faculty and graduate students has therefore been studying the region and will shortly be presenting its findings. Briefly, the study provides a detailed assessment of the Valley, including its natural properties, distinctive landmarks, environmental factors and circulation patterns. Ownership and political influence become key factors and all state agencies, adjoining municipalities and private owners have been identified.

While the design of new facilities does not form part of the study — the Taliesin Fellowship is currently working on proposals for a new visitors’ center and condominium units — the recommendations concentrate primarily on the protection of the landscape and the minimizing of the impact of expanded tourist activity. SARUP has undertaken research into innovative ways of protecting the natural environment from excessive pressures of development and will be identifying successful methods of guiding or limiting future expansion so that the natural beauty and rural quality of the Jones Valley are not lost.

One of the strategies currently under consideration involves the possible extension of the Wisconsin Department of Natural Resources (DNR) Lower Wisconsin State Riverway concept south into the Jones Valley from the Wisconsin River. The plan would result in the controlling of scenic vistas by limiting development along the ridge lines overlooking the Wisconsin River, while other suggestions may include agricultural preservation methods and conservation easements.

More specific recommendations will be geared towards the enhancement of the identity of the Jones Valley area and the reduction of any potentially negative effects that an influx of tourists may have, including a detailed analysis of current roadways and parking. Clearly defined road signage, well designed parking areas and strategic pulloffs and overviews are crucial to ensure that traffic does not overwhelm the existing roadway structure. Additionally, some thought is being given to the overall image of the Jones Valley which can be improved by sensitive signage, appropriately scaled tourist-related facilities and an articulated sense of entry and arrival to the Valley.

Finally, suggestions involving site quality will include broad strategies for future potential development, including landscaping approaches most appropriate to the region. The final report, which will be presented in both booklet and exhibition form, will be published in the Spring, and will hopefully influence the future development of the Jones Valley.

With the relative flurry of activities and expanded interest in the area, the future of its famous architectural heritage and its natural beauty are naturally causing some concern and speculation. However, it is hoped that the combination of State involvement and private investment can, if sensitively implemented, make the Jones Valley an area of enhanced natural beauty and restored architectural splendor capable of embracing the visitors who come to enjoy its many unique characteristics.

Photography by Dick Stith
Drawings by Jeff Mussor
Once upon a time sixty years ago, a little girl lived in the Big Woods of Wisconsin, in a little gray house made of logs. The great, dark trees of the Big Woods stood all around the house, and beyond them were more trees. As far as a man could go to the north in a day, or a week, or a whole month, there was nothing but woods. There were no houses. There were no roads. There were no people. There were only trees and the wild animals who had their homes among them."

One Hundred years later, this culturally significant landscape is unrecognizable to its faithful readers. The reconstruction of the little house is set in an open field with only a few small trees between it and the obligatory parking lot. The landscape of words—the description of enclosure is more real in the pages of a child's book than it is at the actual site. This is an example of the ever changing quality of the American Landscape. When reconstruction is made, is it faithful to its past circumstances or does it constitute the creation of a new event? Landscapes create more than spaces, they create experiences, culture, and a record of passing time.

Architects have, recently "discovered" the landscape. They banter glibly about landscape "issues" like genus locii, sense of place, regionalism, and contextualism. All too often, this discussion results in creating a genus locii for the site after it has been cleared for development. This newly created sense of space extends to the property line and there it abruptly ends. Regionalism is most commonly expressed in the projection of the eave line and is not necessarily geographically specific to the site upon which it is built. Rarely is regionalism reflected in the landscape. Contextualism is usually expressed as a geometric plan relationship in reference to adjacent developments. Wisconsin architects would do well to return to their historic tradition of organic architecture rather than attempting to "invent" a better idea. Landscape ideas, as well as building ideas, to paraphrase, should come from or of the land, rather than sit on top of it.

But all of these ills are symptomatic of the psychological condition topophobia—fear of specific places. Traditionally man has seen the landscape as a dichotomy; either as an earthly paradise or as a threatening forest where unkind spirits dwell. This landscape struggle between light and dark still exists today.

For Americans, the larger issue is the ambivalence that our culture has towards the American Landscape. Ours is not a traditional culture which has a long history of steady growth with a homogeneous population with common goals. To the contrary, ours is a young nation which has developed rapidly with a diverse parapletic population with almost as many goals as there are individuals. Traditional site planning wisdom has been imported to America by its many immigrants. Ideas about ideal spaces and proper uses of the landscape have been either transplanted in total or adapted to local conditions with mixed results.

The true American Landscape is still evolving. Architects and Landscape Architects share the onerous task of shaping a landscape which will develop meaning over time. The roots of an American attitude toward the landscape emerged after World War II, expressing the desire to cast off the old European trappings of the picturesque and the classical. This dynamic time in our history is best illustrated with examples of Thomas D. Church's organic California gardens, James Roses' modern movement gardens, and Dan Kiley's creative association with major architects of the past forty years. This diversity and plurality shows clearly that America is too large to have a national landscape and the obvious answer is to create a series of regional landscapes. The basis for such a regional landscape in the midwest, can be derived from the works of Jens Jensen, now largely ignored; Frank Lloyd Wright, now largely misunderstood; and Frederick Law Olmstead, now largely copied.

The current Wisconsin interest in the painstaking recreation of tall grass prairie, a phenomenon which runs counter to natural landscape succession, is as artificial as the embroidered ground plan of the French parterre. This is not to say that these two types of landscapes cannot or should not be created for their own beauty, but they are not "natural" landscapes. In order for a landscape to be meaningful it has to improve and accommodate the functions and aesthetic of its cultural environment.

Is there any wonder that architects are phobic about the landscape? The historic landscape has been altered by development, there is little "natural" landscape to conserve which has not been affected by roads, structures, farming, logging, mining, etc. Our culture is constantly in flux and as a group we know very little about natural systems.
RIGHT...
FROM THE START

Just 55 minutes at the start could save you thousands of dollars on your next parking structure.

That's all it takes to get crucial planning advice from our specialists.

In 55 minutes we'll show you the latest methods of getting the most parking space for your dollar.

We'll give you up-to-date information on building structures that are virtually maintenance free.

We'll demonstrate how Peters' precast concrete is superior to cast-in-place concrete in corrosion resistance. And we'll show you how best to integrate engineering and construction to assure total budget control.

After a 55 minute consultation with J.W. Peters you'll know how to build your parking structure right...right from the start.

JW PETERS
AND SONS, INC.

34212 West Market Street • Burlington, WI 53105 • (414) 763-2401
(312) 782-4691 (Chicago) • (414) 272-7222 (Milwaukee)
As an adjunct professor of Architecture at the University of Wisconsin at Milwaukee School of Architecture and Urban Planning, I see the early symptoms of topophobia. The landscape is seen by students as both anti-intellectual and frightening. The students “know” about the landscape but they don’t necessarily “understand” it. The following preconceptions about the landscape are almost universal with architecture students:

1. Single trees or a single line of evenly spaced trees (generally 20’ on center) are acceptable as a symbol of larger woods or forests, and “should” do for any project.
2. Rocks are automatically placed in groupings of three.
3. Groupings of trees in irregular shapes are only acceptable as the border of a drawing, otherwise they are perceived as unnerving, or worse — undesigned.
4. Trees are rarely drawn at actual scale. In plan they appear “too big” in elevation, trees are generally assumed to be 20’ tall. Otherwise they overwhelm the elevation or they ruin the board layout.
5. Shrubs are rarely considered, unless they are clipped and evergreen (read walls). They are not perceived as frightening, merely as “messy.”
6. The basic fear is that the drawings will be unclear, cluttered or complicated. As a result most site drawings are clean, clear, static and boring.
7. The landscape is considered a place to retreat from and building is seen as shelter and protection. Students would profit from Venturi’s definition of architecture as “the wall between the inside and the outside.”

To combat these seven deadly sins, I teach the students to “read” the landscape. The exercises of reading the landscape are merely site visits during which students focus on the landscape as positive space. They do simple things; such as measure the caliper of trees, calculate height and canopy spread. Students are instructed to analyze the landscape as to its abstract qualities and its three dimensional aspects. They need to constantly remind themselves that the landscape does things that architecture doesn’t. Landscapes continually change over time. They change daily with the changing light of the sun and the phases of the moon, seasonally in color and form and texture. Over long periods of time they change in height and width. Culturally or functionally their use may change. The olfactory quality of some landscapes have an incredible capacity to invoke memory and to heighten perception. All of these elements are easy to forget in the design studio. The most important issue is to understand a site within its cultural context, its history, its presence, and its future. Designs devoid of these considerations are drafting exercises. Of course these elements are difficult to draw. But the understand of their meaning should and can be expressed in the design.

By the conclusion of the course the students may not be cured of topophobia but at least they can now appreciate the course of treatment. Students are encouraged to understand what a site is and what opportunities and constraints it affords. They are introduced to the tools necessary to analyze the site in a meaningful way. This holistic attitude toward building and site design insures the development of an American landscape. This specific landscape will have a strong sense of place, recognizing its genus locii, have regional and contextual significance, and will continue to develop its meaning over time. When these goals are achieved, topophobia; a fear of specific spaces, can be replaced by topophila, a love of specific spaces.

(Wilder, Laura Ingalls, Little House In the Big Woods. Harper & Row, N.Y. 1932/1971, p. 1)
(Venturi, Robert, Complexity and Contradiction. N.Y. Museum of Modern Art, 1972, p. 89)
Incomsn/
Digging near underground power lines and other utilities can be dangerous. Before you dig, uncover the facts. If you are digging in Wisconsin call Diggers Hotline at least 3 days before digging.
1-800-242-8511
Toll Free
344-5111
Milwaukee Area

State law requires you to notify owners and operators of underground facilities at least three working days before you dig. One call to Diggers Hotline alerts most major Wisconsin utilities. If there are utility lines under the site you specify, the company will mark their locations for you.
Save this ad. It's one you can live with.

Diggers Hotline

Let us know 4-6 weeks in advance so that you won't miss a single issue of Wisconsin Architect. Please include a copy of the old label.

New Address:
Name _______________________________________________________
Address _____________________________________________________
City, State, Zip ________________________________________________

Moving?

Mail To: WISCONSIN ARCHITECT
321 S. Hamilton St.
Madison, WI 53703

We will reprint your ad on our magazine paper stock in the quantities you need.

For more information contact:
Nancy Baxter
Advertising Sales Manager
608/257-8477

Wisconsin Architect April 1989
While IAC ceramic tile is priced comparably to most higher grades of vinyl, carpet and wood, it's far more durable, and a lot less trouble. There's no stripping, waxing, sealing, or buffing — ever. And because it's made by IAC, it resists stains, acids and other corrosive substances. In fact, IAC has more than three times the abrasion resistance of current industry standards — as well as nearly twice the breaking strength and almost five times the bonding strength of standard tile.

Tile of Distinction Ceramic Tile Showroom
• Serving Wisconsin builders, architects, and interior designers for 35 years • Hundreds of samples on display • Experienced design consultants available to assist you • Fast delivery of hundreds of different tiles from our warehouse

746 N. 109th St., Milwaukee, WI 53226 • 414-476-0970
toll free 1-800-242-0847

Endeavor with Tile From Butler Tile Sales

Enhance with Tile From Butler Tile Sales

Tiles — While IAC ceramic tile is priced comparably to most higher grades of vinyl, carpet and wood, it's far more durable, and a lot less trouble. There's no stripping, waxing, sealing, or buffing — ever. And because it's made by IAC, it resists stains, acids and other corrosive substances. In fact, IAC has more than three times the abrasion resistance of current industry standards — as well as nearly twice the breaking strength and almost five times the bonding strength of standard tile.

Tile of Distinction Ceramic Tile Showroom
• Serving Wisconsin builders, architects, and interior designers for 35 years • Hundreds of samples on display • Experienced design consultants available to assist you • Fast delivery of hundreds of different tiles from our warehouse

746 N. 109th St., Milwaukee, WI 53226 • 414-476-0970
toll free 1-800-242-0847

HERE IN ITS SIMPLEST FORM IS A MARVIN WINDOWS CATALOG.

Most window manufacturers make just a few standard shapes and sizes. Marvin offers you thousands to choose from. With everything from authentic divided lites to Round Tops.

All Marvin windows are constructed of fine-grained Ponderosa pine. This wood was chosen for its excellent insulating properties and the way it accepts a stain-and-varnish or paint finish.

A variety of glazing options are available, including insulating glass and special energy-saving Low E glass. So heating and cooling costs are significantly reduced. What's more, Marvin windows are carefully weatherstripped to eliminate drafts and further reduce energy loss.

And you don't have to wait a long time to have your windows made to order. Delivery is usually within three weeks from the time they receive the order.

Call or stop in for complete details on Marvin Windows.

builders world, inc.
p. o. box 881 • waukesha, wisconsin 53187 • (414) 542-8883

Find the Speaker in this Picture

What you see (or don't see) is an in-the-wall speaker system. Blending into the environment, it's designed to be heard, not seen. The speakers can be painted or wall-papered over.

We are specialists in custom home entertainment systems, from design to installation. We work directly with you, the architect, to provide the best system for your client. From 22 years of serving commercial and professional clients, we understand the special satisfaction that comes with knowing a system is the best it can be.

You'll find our designers and installers to be patient, attentive and knowledgeable. We'd never be satisfied with a system until you are.

Let's talk about the possibilities. Call David Vatland at (414) 733-8539 to find out how we can help you. Get the picture?

Enjoying our 23rd year serving you.

Sound World

414-733-8539
3015 W. Wisconsin Ave., Appleton, WI 54914

25 Wisconsin Architect April 1989
An important factor affecting the liability exposure of Wisconsin architects and others in the construction industry is the "statute of limitations" governing actions against those involved in the design and construction of improvements to real property.

The Wisconsin Supreme Court recently struck down the state's statute of limitations for the design and construction industry. The Court ruled that section 893.89, Wisconsin Statutes, was unconstitutional because it violated the equal-protection clauses of the Wisconsin and U.S. Constitutions. In its opinion, the Court indicated that legislation could be drafted that would meet the constitutional issues involved. The WSA anticipated this opinion; and proposed legislation, 1989 Senate Bill 34, has been introduced to create a new and improved statute of limitations for Wisconsin's design and construction industry.

Over the last several decades, the Wisconsin Legislature has enacted two statute of limitations for the design and construction industry. In 1975, the then existing statute of limitations was declared unconstitutional by the Wisconsin Supreme Court. In response to this decision, the Wisconsin design and construction industry lobbied in support of a new statute of limitations which was passed and signed into law in 1977. The new law required that actions for injuries arising from the design and construction process must be brought within six years of substantial completion.

However, the Wisconsin Supreme Court subsequently ruled that this statute of limitations law only applied to projects completed after 1977. In other words, any project completed prior to 1977 did not have the benefit of the statute of limitations that ran from the date of substantial completion. These pre-1977 projects only have the benefit of statutes that require lawsuits to be brought within three years after the time of personal injury or within six years if only property damage is involved.

In its most recent opinion in Funk v. Woolin Silo & Equipment, Inc., the Wisconsin Supreme Court ruled that the entire statute of limitations for the design and construction industry was unconstitutional. According to the Court, the legislation adopted in 1977 failed to correct all the constitutional deficiencies identified by the Court when it struck down the previous statute of limitations. As a result, there currently is no statute of limitations for the Wisconsin design and construction industry other than that which requires actions to be brought within either three or six years of the time of discovery depending on
whether personal injury or only property damage is involved.

For decades, courts have recognized the prerogative of legislative bodies to establish time periods (statutes of limitation) within which lawsuits can be commenced. The rationale for all statutes of limitation is the balancing of the interests of potential plaintiffs in bringing suits for their injuries with the interests of potential defendants in certainty and finality in the administration of their affairs. . .to be free from suit after a reasonable period of time.

The need to balance these competing interests is particularly compelling in the context of a construction project. The useful life of an improvement to real property can extend for centuries, leaving the architect and the architect’s estate with virtually unlimited liability. Architects, as professionals registered by the state, are not allowed to shield themselves behind a “corporate veil.” This means that we place our personal assets and those of our heirs on the line whenever we provide professional services, and that exposure can last the lifetime of a building.

The necessary extended record keeping involving all contract documents, shop drawings, change orders and other documentation establishing the liability among many players (owner, architect, engineer, general contractor, subcontractors, materials suppliers, etc.) is an excessive and perhaps impossible burden. Further, after the owner’s acceptance of the project, all maintenance and subsequent improvements are beyond the control of all the other parties to the initial construction.

Forty-two states have some form of statute of limitations for actions arising out of improvements to real property. These are the oldest and probably the most fundamental type of statutory remedy for architects’ liability problems. The statutory limitation periods range from four to fifteen years, with an average of nine years. Statistically, these statutes do not unfairly limit the interests of plaintiffs. A 1983 study found that 89% of the claims were brought within six years of substantial completion, 96% were brought within eight years and 97% were brought within 10 years.

During the past several legislative sessions, the WSA has worked with a consortium of design and construction industry organizations for the adoption of legislation to improve and strengthen Wisconsin’s statute of limitations law. This legislation has been introduced in the current session as 1989 Senate Bill 34 and has been referred to the Senate Judiciary and Consumer Affairs Committee. The prime sponsor of SB 34 is State Senator Jerome Van Sistine of Green Bay.

The key provisions of this legislation include:

* Appropriate language and classifications that would enable the new statute of limitations to better withstand a constitutional challenge.

* Additional language to clarify that projects completed before 1977 would have the benefit of the statute of limitations.

* Extension of the maximum time period in which legal actions may be brought from six years to ten years of the date of substantial completion of a construction project.

* An additional requirement that legal action must be brought within three years after a person discovers or should have discovered an act or omission, within ten years of substantial completion of a project.

Your support for this statute of limitations legislation is important. Stay in contact with your state legislators and encourage them to support SB 34. Call the WSA office for further details about this proposed legislation. . .1-800-ARCHITECT or 608-257-8477.

EDITOR: The author is Chair of the WSA Legislative Committee and has testified in support of similar legislation introduced in previous sessions.
Bring your designs to Pella.

Light up your life.
Pella gives your imagination full rein. Let our window experts help bring your dreams to life.
We can show you one of the biggest selections of windows, doors, sunrooms and skylights anywhere.

Talk to the experts.

Verflalen, Inc. The Pella Window Store

Green Bay Madison Mequon Milwaukee
Neenah Oshkosh Racine Wausau

Autodesk AEC Architectural customizes the world's most popular computer-aided design software specifically for design professionals.
AutoCAD AEC Architectural now taps the full power of 3D to streamline the process of design development, floorplan preparation, and presentation.
Contract documents may be created automatically using the AutoCAD AEC architectural database functions.

Why spend time drafting when you could be designing?

CADSYS, INC.
Provides Complete CAD Solutions

Turnkey systems
CAD Training Center
Custom Programming

Crossroads Corporate Center III
20875 Crossroads Circle, Suite 600
Waukesha, Wisconsin 53186
(414) 785-9495 or Toll-free: 1-800-999-4CAD

CADSYS, INC. offices are
also located in Chicago and Houston

No one knows more about glass rooms than Four Seasons.

Four Seasons is America’s largest manufacturer of greenhouse/sunroom additions. We offer Builders and Architects more than nine different ways to add individuality and appeal to both residential and commercial properties. Available in aluminum and wood framed structures with curved and straight glass curves leave other sunroom companies out in the cold. Call or visit Sun Rooms Unlimited, suppliers and installers of Four Seasons Solar Products, for more information.

132nd & National Ave., New Berlin, WI
(414) 797-8818

With one possible exception, new styles. Four Seasons state-of-the-art engineering and exclusive product features like Heat Mirror™

SUN ROOMS UNLIMITED, Inc.
Plant your yard with berried treasures

Charm ornamental orioles with fruiting crab apples. Lure bandit cedar waxwings to purple juniper jewels. Fruited trees and shrubs beckon wildlife on the wing.

When the experts at McKay plan your landscape, mature plantings appreciate the value of your home as years pass.

Because McKay's complimentary landscape architecture service is backed with over 1,000 acres of Wisconsin-grown, winter-hardy stock guaranteed to thrive:

It costs no more to call on the professionals: McKay.

See the Yellow Pages for your local McKay representative.

DESIGNED FOR PROJECTION

Would you like to have more technical support when you design meeting rooms with projection systems?

Look to Midwest Visual, Wisconsin's most experienced installer of audio-visual, video, and computer presentation systems. We specialize in custom systems for conference rooms, board rooms, training centers, and small auditoriums. We can provide the requirements you need for screen sizing, audience seating, front and rear projection rooms, sound systems, control systems, and lighting.

Conference room at Miller Brands, Milwaukee

We'd like to help provide your clients with meeting rooms that take full advantage of the latest communications technology. Call us as questions come up in any stage of the design process.

16908 West Victor Road, New Berlin, WI 53151
(414) 784-5880

The Wisconsin Society of Architects has recently held several QBS round table sessions with members around the state to evaluate the Qualification Based Selection Program.

If you would like to receive a copy of the documented conclusions resulting from these meetings, or would like to share your thoughts with us regarding the QBS Program, contact Darius Van Fossen, WSA QBS Facilitator.

Call 608-257-8477 or drop a note to the WSA office, 321 S. Hamilton St., Madison, WI 53703.
Society News

QBS
The WSA's innovative Qualification Based Selection (QBS) program continues to play to rave reviews from public owners and architects. During the past three years, the WSA has assisted close to 1,000 owners in establishing an architect selection process based on qualifications.

A number of national organizations, including the AIA, ACEC, NSPE/PEPP and ASFE, have approached the WSA about using the successful Wisconsin QBS program as a model for other states throughout the country. These organizations have recognized that the QBS program has proved to be a valuable member service and an extremely successful public outreach/education effort.

Wisconsin's program is guided by a QBS Steering Committee with representatives from the WSA and the Wisconsin Association of Consulting Engineers (WACE). WSA representatives include Harry Schroeder, AIA, Chair; Jim Gabriel, AIA; Jim Potter, AIA; and James Shields, AIA. WACE representatives are William Mielke, Gil Gerdman and Terry Beuthling.

If you have any questions or would like information on QBS, please call Darius Van Fossen at the WSA office. 1-800-ARCHITECT/608-257-8477.

SARUP
Many exciting things are happening at the University of Wisconsin-Milwaukee School of Architecture & Urban Planning. The following are just a few examples.

Lillian Leenhouts, FAIA, will receive an Honorary Degree from UWM in recognition of her hard work and contributions on behalf of the School of Architecture and the architectural profession. SARUP hosted a special reception to honor Lillian at the end of March.

Catherine Miller, a senior in the Department of Architecture at UWM, has been elected vice president of the national American Institute of Architecture Students (AIAS) for 1989-90. She will serve at the Washington, D.C. headquarters of the AIAS for one year. This reporter learned that her successful campaign slogan was "Eat Cheese or Die."

Cathy is one of the group of students who has made the Wisconsin Chapter of AIAS one of the best in the country. Last year, they were runner-up in the annual Most Active Chapter Award competition. The UWM AIAS Chapter has doubled its membership in the past eight months and is looking forward to an expanded agenda this year, including the ever-popular Beaux Arts Ball in April.

ARE Review Sessions
The Southeast WSA Chapter and UWM SARUP have put together an extensive schedule of ARE prep-sessions. The purpose of these review sessions is to give students, Associate members and WSA/AIA members an opportunity to meet and discuss topics included in NCARB's Architect Registration Examination.

The sessions are being held on Monday evenings at Engelmann Hall on the UWM campus. They began in March and will run through June 3, 1989. If you have questions, please call Jeri McClenaghan-Ihde evenings at (414) 332-6909.

Meetings/Tours
The Milwaukee Chapter CSI is hosting an event to honor Bob Morrison on May 22, 1989 at the Milwaukee Athletic Club. For reservations and further details, contact Barbara Just at (414) 354-4046.

Historic Milwaukee, Inc., is pleased to announce its tenth season of tours highlighting the architectural history of Milwaukee. Its "Spaces & Traces Tour" of Bay View will be Saturday, May 13, 1989. ArchiTours will be offered from June 1 to October 15. For information, call (414) 277-7795.

The Frank Lloyd Wright Home and Studio Foundation in Oak Park, Illinois will host the fifteenth-annual "Wright Plus" housewalk on May 20 & 21, 1989 from 9:00 a.m. to 5:00 p.m. The guided tour will include eleven buildings, five designed by Wright and six by his architectural contemporaries. Call (312) 848-1500 for information.
New Regional Director
Robert C. Mutchler, AIA, is the new Director of the North Central Region on the AIA Board of Directors. Bob is president and chief administrator of Mutchler & Lynch Associates in Fargo, North Dakota. The firm specializes in health care facilities, banking and other commercial offices, and colleges and university buildings. He is also president and chief administrator of a design-build firm, MLA Development Company.

Bob Mutchler received his B.S. in Architectural Engineering in 1956 from North Dakota State University. He has been an active member and officer of the North Dakota Chapter/AIA.

Bob replaces Tom Van Housen, AIA, of Minneapolis as the AIA Director for the North Central Region. The Region includes Wisconsin, Minnesota and the Dakotas. Bob's three-year term as Regional Director will end December, 1991. At that time, as is the tradition for the Region, the next Director will be named by the WSA.

New State Architect
Frederick Loewen, AIA, has been named State Chief Architect for the State of Wisconsin.

Loewen, a registered architect with 28 years of state service, also will serve as the director of the recently created Bureau of Architecture in the Division of State Facilities Management. The primary responsibility of this position is policy development and management of all state architectural activity. It also includes state-wide authority in determining the level of quality for general construction in state facilities. He also will serve as a non-voting advisory member of the State Building Commission.

Jack R. Kloppenburg
It is sad to have to report the passing of a fine architect and WSA member Jack R. Kloppenburg, AIA, of Bayside. He possessed many fine qualities, many no doubt inherited from his father Ralph Kloppenburg, FAIA. He is survived by his wife Virginia.

Jack has many good friends in the profession and the entire construction industry. His presence, thoughtfulness, leadership and many talents will be missed. Jack Kloppenburg died November 30, 1988 at the age of 60.

I.M. Young
Thousands of kids enjoyed the WSA's half-million Legos® at the Madison Children's Museum during January and February. The Legos® area, sponsored by the WSA, was part of the Museum's hands-on construction industry exhibit.

The exhibit included the offices of I.M. Young & Associates, Architects, where children enjoyed creating their own building plans at several drafting tables.

Southwest Chapter members contributed drawings and models to give the exhibit the feel of a real office. By all reports, the exhibit was a success and turned many young minds on to architecture. It is not certain, at this time, whether or not Mr. Young is an AIA member.

Oops!
Apologies to photographers Skot Weidemann, Bob Rashid and Mike DeVries. Their credits were omitted in the January story on MATC-Madison.

Membership Action
Groth, Michael P., was approved for AIA Membership in the Southeast Wisconsin Chapter.

Markowski, Peter, was approved for Student Membership in the Southeast Wisconsin Chapter.

Perez, Paul, was approved for Student Membership in the Southeast Wisconsin Chapter.

Ellsworth, Craig T., was approved for AIA Membership in the the Southeast Wisconsin Chapter.

Greiber, Ronald, was approved for Student Membership in the Southwest Wisconsin Chapter.

Barr, Arthur C., Jr., was approved for Associate Membership in the Southwest Wisconsin Chapter.

Barton, Lawrence, was approved for Associate membership in the Southwest Wisconsin Chapter.

Kehoe, Daniel R., was approved for AIA Membership in the Southeast Wisconsin Chapter.

Klessig, Steven L., was approved for AIA Membership in the Southeast Wisconsin Chapter.

Koy, Steven R., was approved for Associate Membership in the Southeast Wisconsin Chapter.

Siebers, Richard G., was approved for Associate Membership in the Southeast Wisconsin Chapter.

Sobek, Gary, was approved for AIA Membership in the Southeast Wisconsin Chapter.

Warnke, Donald R. was approved for AIA Membership in the Northwest Wisconsin Chapter.
You put care into your designs. Well, we at Klipstein Insurance Services are design professionals too when it comes to liability insurance for architects and engineers. We know your product and we take care to design a policy sensitive to your individual needs. We identify your risk exposure—both insured and not insured—and advise you on how to reduce risk. We review contracts, compare policy provisions, monitor claims and conduct inhouse Loss Prevention seminars. Yes, we are Design Professionals. And we want to work with you!

We are the exclusive representatives of Design Professionals Insurance Company and a member of Professional Liability Agents Network (PLAN).

Let’s talk today!
Paul Berta and Tom Dowling
KLIPSTEIN INSURANCE SERVICES
216 N. Midvale Blvd. • Box 5566
Madison, WI 53705 1-800-792-3505, Ext. 268
A WISCONSIN TRADITION OF QUALITY FOR OVER 80 YEARS

Brick
Block
Pavers
Stone

THORO SYSTEM PRODUCTS, INC.

Sonneborn building products

American Olean Tile

WISCONSIN BRICK & BLOCK CORPORATION

6399 NESBITT RD MADISON, WI 53719
(608) 845-8636

PBBS EQUIPMENT CORP.

HEATING AND AIR CONDITIONING
RADIO DISPATCHED SERVICE FLEET
FOR COMMERCIAL AND INDUSTRIAL
INSTITUTIONS, THROUGHOUT WISCONSIN
AND UPPER MICHIGAN

COMPLETE BOILER ROOM
ENGINEERING - PARTS - SERVICE
CLEANING - WATERBLASTING
OF ALL MAKES OF BOILERS
NON-DESTRUCTIVE INTERNAL INSPECTIONS
COMPLETE MOBILE BOILER ROOM RENTALS

AUTHORIZED
CLEAVER BROOKS SALES - PARTS - SERVICE

REPRESENTATIVES FOR
- AEI TURBULATORS
- ASCA STEAM TRAPS - SIGHTGLASSES, UNION
- CHECK VALVES, WAFER CHECK VALVES,
- STRAINERS
- CAIN FEEDWATER HEATERS
- CANNON FEEDWATER HEATERS
- CLEVELAND CONTROLS
- PROMINENT FLUID CONTROL SYSTEMS
- ICE-O-MATIC ICE CUBER
- THERMO-KOOL WALK-IN COOLERS & FREEZERS

AND-CAR
AUTOMATIC BOILER BLOWDOWN SYSTEMS
- ELECTRONIC BOILER ROOM MONITORING
- ENERGY MANAGEMENT SYSTEMS
- ELECTRONIC SECURITY SYSTEMS
- OXYGEN ANALYZERS - FLUE GAS ANALYZERS

SERVICE OFFICES
- MADISON, WI (608) 249-6604
- STEVENS POINT, WI (715) 344-7310
- GREEN BAY, WI (414) 494-3875
- MILWAUKEE, WI (414) 781-9620
5401 NORTH PARK DRIVE • BUTLER, WI 53007

GIS Systems has the solution to your pen plotting bottleneck. Our Plotting Service Bureau is the most experienced in the Midwest, utilizing state of the art 400 dot per inch electrostatic plotting technology. Fast, cost effective, high quality plots. Monochrome and color, in any size.

We offer:
- Overnight turnaround for local and long-distance customers
- Postscript compatibility
- HPGL and Calcomp formats
- Support for most micro- and mini-computer based CAD systems
- Very high speed modem capabilities, up to 19.2k Baud
- Modem purchase plan
- The best plotting rates in the country
- Volume and contract rates available

For more information, call:

GIS SYSTEMS
Grunbach Information Systems, Inc.
300 NORTH FIRST AVENUE
MINNEAPOLIS, MN 55401
(612) 342-9200

Your source for complete AEC CAD solutions.
Guard® "Da Vinci II", strongly textured faux marble contract vinyl wallcoverings in a color range incorporating classically differentiated neutrals and greys, turquoise, rose, and weathered sand, and "Da Vinci Metallico", on a subtly gleaming Renaissance-inspired metallic ground, are major introductions by Columbus Coated Fabrics, Borden Inc., Columbus, Ohio. 

Guard "Da Vinci II/Da Vinci Metallico" has 20 oz Type II construction, Class A fire rating, and meets or exceeds all requirements of Type II classification via CCC-W-408a and CFPA W-101A. For further information, contact: Susan Kramer, Product Manager — Commercial Wallcoverings, Columbus Coated Fabrics, Borden Inc., Columbus, Ohio 43216; (614) 297-6029.

The new Traverse Chair from LFI is strong and sophisticated—for the most active, bustling spaces, or the quiet, reflective ones. Indoor food courts or outdoor courtyards. The design combines beauty with structural integrity. From the slightly splayed stance of the legs comes stability. From the intersection of graceful curves comes rigidity. The nine exciting standard colors are more than skin deep. The electrostatically applied Pangard polyester powdercoat finish is baked-on. The Traverse Chair is available with or without armrests, and with either a grid or a perforated metal seat panel.

For more information, contact Bill Quinlan, LFI, 2140 N. Halsted, Chicago, IL 60614 312-871-8810.

The Acoustical/Fenestration Department of Twin City Testing was recently accredited by the U.S. Dept. of Commerce under their NVLAP (National Voluntary Laboratory Accreditation Program) program to conduct acoustical field testing procedures relative to multi-family housing. TCT becomes the first laboratory in the U.S. to receive accreditation to conduct ASTM E336 and ASTM E1007. These procedures related to STC (Sound Transmission Class) and IIC (Impact Insulation Class). The UBC (Uniform Building Code) has minimum performance standards that must be met prior to issuing occupancy permits. Twin City Testing's Acoustical Department has extensive "in-lab" facilities as well as the above field testing capabilities. For further information, contact Richard Thomalla at 612/641-9310.
Consulting Engineers

- Geotechnical
- Water Resources
- Environmental
- Construction Services

STS Consultants Ltd.
Milwaukee, WI 53224 414-359-3030 • Green Bay, WI 54303 414-494-9656

DOLAN & DUSTIN, INC.
CONSULTING ENGINEERS
2266 N. PROSPECT AVENUE
MILWAUKEE, WIS. 53202
(414) 276-5502

- Electrical Power - Primary & Secondary Distribution
- Lighting Design • Security & Communications Systems
- Grounding • Emergency Generation • Uninterruptible Power

George E. Dolan, PE
Gerald E. Braun, PE
Charles M. Mullikin, PE
Roger A. Nass, PE
Arthur L. Miller, PE
Richard Gumpert, PE

JEFFREY P. BROWN
Architectural Rendering and Models
P.O. Box 71177 Milwaukee, WI 53211 • (414) 962-0510

Rent this Space
Call: Nancy Baxter
608-257-8477

MILWAUKEE BLUEPRINT SERVICE
7526 W. Appleton Ave., Milwaukee, WI 53216
Fast Diazo Printing • Specs • Supplies
Free Pick-Up and Delivery with Minimum Order
(414) 464-2350

LA FORCE
Hardware & Manufacturing Co.
1060 W. Mason St., Green Bay, WI 54303
(414) 497-7100
THE REPUTATION YOU CAN BUILD ON

Whatever applications your project requires, we can supply all the door hardware you need.
- Complete Selection
- Competitive Prices
- Reliable Service

Let us be your headquarters for door hardware.
Sculptured Rock is your natural choice for a permanent and beautiful landscape.

**Keystone** retaining walls are designed to function beautifully for a lifetime, providing long term savings compared to timbers which will deteriorate.

There are no metal members in **Keystone** to rust away, such as found in timbers.

No cumbersome tools, mortars, cutting or preservative treatments are required with **Keystone**, and the wall goes up in half the time of old methods.

**Build it to last!**
- Individual concrete units locked together with fiberglass dowels.
- Available in 8" or 4" high mini-units.
- Choice of face, color and texture.
- Strong, permanent and maintenance free.
- Quick and easy installation reduces labor.

Manufactured in this area by **Best Block Company**