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Wisconsin Society of Architects
American Institute of Architects
September/October 1991

WISCONSIN

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Green Bay, Wisconsin
Foth & Van Dyke
Photographer: John Lewis
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Is there a common thread shared by the projects in this issue—

Designing for special municipal, health care and recreational buildings? Does paying property taxes or a water bill have anything in common with having a blood test architects face and relish, or a delightful root canal or using an exercise machine?

The answer is a resounding yes! These are required activities of daily living; each should be enhanced or made enjoyable in some way. The design of each facility must have the users in mind—patrons, clients, owners, employers and employees. Understanding the needs can satisfy all objectives.

Roger D. Roslansky, AIA
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Wisconsin Architecture
Gone to the Dogs

Amid clamorous outcries, both pro and con, greyhound racing has settled in to five Wisconsin communities. The sport has an interesting history. It is said that the first formal rules for racing greyhounds date back to the 1500s under the rule of Queen Elizabeth I, the queen who loved sporting events.

The speed of these dogs was admired by the ancients of Persia, Rome and Greece. The pharaohs of Egypt admired them as great hunters who worked by sight rather than smell; they also kept them as pets.

To keep the dogs running around a track, a lure is necessary. The first successful mechanical lure was invented by Owen Patrick Smith of Salt Lake City to be used on round and oval courses. It was a stuffed rabbit attached to a motorcycle. Today, on all greyhound tracks, these important mechanical lures are given names. Without them there could be no race.

The lure at Hudson is a stuffed bone named “Wishbone.” (In the state of Wisconsin a toy or realistic looking rabbit is not allowed in racing.) The Geneva Lakes Kennel Club also has a bone shaped lure named “Bucky.” Wisconsin Dells had a bunny contest and names were mailed in. The winning name was “Hare-ington.” A caricature style rabbit named “Barney” is the lure in Kenosha. At the Fox Valley races a mechanical figure named “Foxy” lures the dogs onward.

To pamper the feet of the racers as much as possible, all tracks are heated. At Delavan the tracks use Equitrack surface, a plastic coated green sand-like material that does not freeze. Surface of the Fox Valley track is sand and silt. At the Dells a sand and clay surface is heated by Glycok radiant heat, a system of underground tubes.

Wisconsin architects were involved with each of the five tracks. Kahler Slater Architects served as associate architect for the design of Dairyland Greyhound Park in Kenosha with Hunzinger Construction as General Contractor.

The Durrant Group was architect for Wisconsin Dells Greyhound Park in Lake Delton and Fox Valley Greyhound Park in Kaukauna. Kraemer Brothers, Inc. was general contractor for both tracks. Durrant also assisted in design coordination and construction documents for the Geneva Lakes Kennel Club in Delavan.

The St. Croix Meadows Greyhound Racing Facility at Hudson was designed by Flad & Associates with J. P. Cullen as general contractor. WAI

Photography: Dan Fuller
Wisconsin's first pari-mutuel greyhound racetrack is geared toward family tourists, and has enjoyed fast success in the popular Wisconsin Dells vacation area. The facility seats 2,100 and has a capacity of more than 3,000. Geometric tile and oak trim accent the interiors.

Fox Valley Greyhound Park features a two-level, glass-enclosed building that seats 2,900 and has a standing capacity of 6,000. The grandstand offers stadium seating and a variety of concessions. The bar, decorated in shades of rose with oak accents, provides comfortable seating with a view of the action outside. Greyhound heads of solid brass decorate the bar rail. A grand staircase beyond the main entry leads to the upper level clubhouse, which boasts fine dining with a fabulous view.
Developers of Dairyland Greyhound Park wanted a distinctly Wisconsin flavor in the design of the track, located on a former farmer's field in Kenosha County. The silo elements and the red metal roof are reminiscent of the many dairy farms which dot the landscape across the state.

View of dining room/clubhouse, with seating for 1,600 people. Individual monitors at each table allow for constant viewing of races. High quality food service is an important feature of a "night at the races."

Geneva Lakes Kennel Club is in Walworth County, and was designed to be a destination for the tourists coming to the resort area. The facility seats about 3,000 in the grandstand, "sports palace," clubhouse and lounges. All areas have upscale and distinctive interiors.
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In 26 years, the population of Middleton nearly doubled—and use of the library tripled, straining the staff and facilities that were housed in 5,500 square feet of space at City Hall. The new library is helping to revitalize the downtown and strengthen the identity of this growing community just west of the state capital.

The 32,000 square foot building features four new computers for public use, and a listening/viewing area for recorded media. The lower level houses a community meeting room, and has 10,400 square feet of unfinished space available for expansion.
“Because of this building’s non-rectangular design, we required a material that could accommodate a series of angular shapes. Precast Spancrete was chosen for the floor planking and balconies because it could be cut off site to these precise shapes.

“Building high in the air on the lakeshore in winter presented some unusual weather problems, too. Spancrete provided a flexible construction method that was not weather dependent.

“In short, Spancrete was an economical solution that gave us a clean, finished look and was erected rapidly. And it easily conformed to the unusual shapes called for by the building’s design.”

Robert Wirth, Torke Wirth Pujara Ltd.
In 1989, Madison’s Lake Wingra Boat Shelter was destroyed by arson. The program for the new shelter was the result of a collaboration between the Madison Parks Department, the neighborhood community, the shelter operators and the architects.

Requirements of the program were to build on the original site, low profile vertical storage for 20 foot masts, visibility from the park and toward as much of lake and park as possible, natural lighting in storage area, all on a very tight budget.

The solution was to provide a composition of tight, intersecting masses with broad stepping overhangs to visually reduce the mass. The high narrow mast hall allowed a clerestory for natural light while the low projecting concessions area calls attention to itself while maintaining sight lines and human scale.

Three colors of split face concrete block were used to visually and tactually provide texture and break up the mass.

Photography: Kevin E. Donahue
This library can be reached by ferry boat. The 350 fulltime residents of Beaver Island, in the waters of Lake Michigan, required a library of approximately 3,000 square feet. It is also used by tourists and summer property owners.

The structure is nestled into a heavily wooded site with minimal disturbance of mature trees. Exterior wood siding, pitched shingled roof and standard windows harmonize with adjacent residential-scale buildings. In addition to natural light, a combination of direct and indirect lighting provides comfortable reading at various levels.

The abundant local white cedar tree was utilized as major structural columns inside and out, giving a sturdy, rustic appearance. Outside lightpole is also a white cedar pole.

Photography: Mark Heffron
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The clients, merging their two separate practices, requested that the design of their new professional building completely utilize their one-acre site and would reflect their commitment to quality care. Because surgical procedures can last up to four hours, the dentists wanted an environment in which patients could feel relaxed with high degree of well-being.

To reduce patient anxiety, the design team utilized cottage-like forms, timeless materials, and nonaggressive colors. Site planning preserved two large oak trees and a garden concept is brought into the building via its fenestration. The calming effect of carefully researched colors and the soaring ceiling in main hallway creates an environment which both uplifts and soothes.

Exterior materials are brick, split face concrete block and synthetic plaster. Horizontal bands add a decorative touch. The layout of the new facility has enabled the dentists to see thirty per cent more patients and patient anxiety is noticeably reduced.

*Photography: Mark Heffron, exterior  
Steve Poast, interior*
The new Greendale Public Library is located in a former variety store which was part of the original federal “Greenbelt” development of 1938.

Roof forms of the old theater and village hall were integrated into the existing flat roof structure. A linear clerestory was added to the building to accomplish the natural lighting requirement of a good library environment. The selection of brick, multi-pane glass and roofing tile was drawn from the exterior materials of the village hall and nearby structures. The library interior can now provide all the necessary spaces to support a 30,000 volume facility. Reference, adult, childrens sections and circulation desk are arranged flanking the linear clerestory.

The new Greendale Health Department occupies approximately one third of the total project area.

The design incorporates the regional character of this federal Greenbelt community transforming an unused structure into a contemporary community facility.

Photography: Ron Austin
The president of Bellin Psychiatric Center points out that, unlike a medical hospital, a psychiatric center’s technology is its staff and the design and ambience of the building.

This three-story New Gothic style building with 23 gables blends in with the Victorian era homes surrounding it and betrays no institutional appearance. Its site is on a busy thoroughfare and it connects with the medical hospital via a steel and glass skywalk. This accommodates the sharing of diagnostics, food preparation, and laundry, thus reducing overall patient costs.

With 67,000 square feet of space, this facility provides 87 beds plus outpatient care. Inpatient care is provided on the two upper levels. Classrooms, offices and outpatient needs are treated on first floor. Second and third floor windows are of laminated glass for patient safety. Interior decor uses a palette of soft pastels in a variety of textures and patterns.

Photography: John Lewis

Two subdued tones of brick were used—dark smoke bronze with a velour texture for the first story and the trim, and slate grey for the second and third stories.
Two separate schools are located under one roof. A Corporate Playcare Center and Preschool of the Arts each has its own staff and functions but shares the main entrance and an angled corridor which fractures the rectangular building form at 18.8 degrees, splitting the space into two independent learning spaces. Unusual geometric forms provide new uses for the static lobby/corridor as seen in traditional plans.

Front entrance is near the parking area and rear entrance leads to outdoor play areas. Windowed classroom surround an inner core of toilet rooms and mechanical equipment. Five foot square grid-ded windows have been lowered for easy viewing by children.

Designers were told that possible future use of the building might be office space, so even though the geometric space has been slashed by the dramatic corridor, the facades remain undisturbed.
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24 Wisconsin Architect September/October 1991
Lowell Elementary School occupies a block within an older neighborhood and is part of a bluff plateau which rises above nearby Lake Monona. Requirements to meet current building codes resulted in a new stair tower which alleviates two problems: dead end corridors and difficult means of egress from third floor teachers’ lounge and roof terrace (populated with picnic tables).

The tower was conceived as a functional, low maintenance metal and terrazzo stair wrapped in brick of the existing vernacular. The large arched entry was inspired by bricked up arches of the old gym. Blending well with the school’s existing Mediterranean style architecture, the new tower also provides for treetop views to inspire children to look beyond their immediate neighborhood, while also providing an otherwise hidden view of lake and city beyond.

Photography: Kevin E. Donahue
Architecture can be both fun and recreational.

The bar in this project, with its whimsical athletic theme, is part of a larger project involving restaurant, kitchen, party and game rooms. In spite of an extremely small budget, this is supposedly Wisconsin’s longest bar, measuring seventy feet.

One enters the bar through a huge portal in the shape of a giant basketball backstop highlighted with sports memorabilia. A mezzanine rises above the bar and provides office and storage space while concealing a walk-in cooler.

In another area a “dugout bar” is festooned with baseball bats and has a corrugated steel roof. The level to the raised bar features baseball bats as handrails. Green Bay Packers and Milwaukee Brewers colors prevail.

*Photography: Steve Poast*
The new University Ridge Golf Course just southwest of Madison captures the essence of the Wisconsin landscape. The course is a blend of the rolling pasturelands and hardwood forests so typical of this area.

At the center of this tract is the new Pro Shop. In the future it will serve and be subordinate to a major clubhouse planned to be build amongst the hardwoods to the east. For the near future the Pro Shop is to be the center of activies and a symbol for University Ridge.

In the interior, the functions of the golf business are arranged in an open, high vaulted space. Everything is immediately visible. Circulation and purpose is clear and simple. Exterior walls are entirely glass, interrupted only by round concrete columns. Their surface is sandblasted to reveal the aggregate common to glacial moraine. Vaulted ceiling and interior walls are re-sawn cedar. The space is articulated by the exposed cedar timbers of the structure. The interior is sunlit and quiet.

Outside a wide veranda runs the length of the south side of the building. From this elevated veranda a panoramic view of the course and the beautiful countryside unfolds.

Photography: Jim Faecke
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Remember: the lowest bid doesn’t necessarily yield the lowest cost.
Dear Construction Buyer:

Choosing the right sheet metal contractor is one of the many critical decisions you must make to ensure the highest standards of quality and efficiency for your building project.

When all is said and done, your bottom line has to be the key factor. So it's important to keep in mind that the lowest bid may not be the one that produces the lowest ultimate cost.

In reality, the best bid is the one that offers the greatest value. It's the one that buys you a job that's engineered right and built right. In short, it's a bid backed by experience and sound business sense.

With this in mind, more than 20 union sheet metal contractors, together with Sheet Metal Workers Local #18, recently formed the Madison Area Sheet Metal Labor-Management Council. Its purpose is threefold: 1) To foster improved communication between these contractors and decision-makers like yourself, so we can determine how we can serve you better; 2) To provide you with useful information about the advantages and benefits of hiring local union contractors; and 3) To help ensure that the highest standards of quality, efficiency and fairness are maintained within our industry.

We sincerely hope you will find these messages useful as a guide in helping you select a sheet metal contractor. If you'd like to discuss any of these issues with a member of the council, we can be reached through our office at (608) 256-6886, and we welcome your comments.

James W. Foulker
Council Chairman and Member of Sheet Metal Workers Local #18
We’re committed to seeing that you get the most value for your construction dollar. Period.

It’s no secret that one way to lose money on a construction project is to hire a contractor who’s unable to maintain control over costs, deadlines or quality standards. When that happens, it’s usually going to wind up costing you in the long run.

The members of the Madison Area Sheet Metal Labor-Management Council want your business — and want to earn your continued confidence. That’s why they’re dedicated to helping you control your bottom line on every job they perform. How do they do it? By taking the steps necessary to see that you get the most value for your construction dollar.

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Madison Area Sheet Metal Labor-Management Council
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While designing the 34,000 square foot addition, it was important to respect the context of the exterior informal rough materials while creating a unified refined interior.

The successful solution is a significant horizontal building which clearly indicates the sequence of interior spaces and special functions. Attention to materials and lighting enhanced spaces designed with different users in mind: quiet individual study areas, public seating areas and window seats with views to the surrounding gardens.

Two octagonal areas with clerestory windows provide definition to the structure as design elements and function as warm inviting reading areas for adults and children. A unique puppet theater/story room has a theatrical, yet cozy, feeling for the children. The administration suite, staff support space and meeting rooms are commodious to meet future requirements.

Photography: Steven Poast
Door County’s rich tradition of quality arts and crafts is reflected in the design of the building; native stone and wood form the exterior materials palette. Located on the grounds of Gibraltar School in Fish Creek, the auditorium will be used for student performances as well as for community events. This freestanding building will be connected to the school by a 60 foot arcade which allows a physical link to be created without providing direct access into the school. This helps reinforce the idea that the theater is primarily a community-based facility.

Focus of the entrance lobby will be a mural depicting the life and activities of Door County and its residents by muralist David Giffey. Additional areas will include interior art galleries off the main lobby and an outdoor courtyard.

The Peninsula Music Festival will move its summer concert series into the complex in 1991.

Photography: Scott Georgeson
Built to replace an existing 84-year old station, this design was derived from particulars of site, program, and client with its conventional "houselike" form sensitive to the context and human scale of its setting within a residential neighborhood. In the truest sense the building design endeavors to strengthen and compliment its surroundings. The 11,300 square foot facility is constructed with two apparatus bays, and is intended to accommodate nine persons on a 24-hour basis.

The building features the use of easily maintainable and quality building materials: split face concrete block and brick construction, concrete tile roof, decorative glass block accents and several unique exterior columns—the columns being reminiscent of fire poles from fire stations of the past.

Photography: Geoff Bray
The program established that the new library be located on a trapezoidal site in a transition area between residential areas and older historical commercial structures. Adjacent on the north is a historical train depot. Off street parking and east pedestrian accessibility were also high priorities. Building size required 3,200 square feet to meet both growth and budget requirements.

To afford a sole librarian maximum supervision, the interior was designed around the circulation desk, a major focal point. There are separate seating areas for adults and children and a quiet room for computer usage. The exterior design solution used architectural elements from historical Carnegie libraries to create a facility that complements and blends well with the older architectural fabric of the business district. Entrance and window treatment are two such details.

Photography: Bonnie Wood-Wright
Modern education strategies address a multitude of issues in today's academic circles.

In 1983, when the Zimmerman Design Group was selected to design the new 200,000 square foot, two story replacement of the old Gaenslen School for the City of Milwaukee, the issue of integration was a paramount design consideration. The architects were not designing for racial integration, but for the integration of regular, able-bodied students with "exceptional" students who struggle with varied physical and emotional disabilities while engaged in their scholarly pursuits. The educational concept introduced at Gaenslen is part of a national trend to mainstream exceptional education students with regular students. Enrollment consists of students of preschool age through 8th graders.

After digesting a comprehensive 139 page report authored by the school's principal and staff which outlined in detail the school's needs and requirements, the design team generated the program and design concept. The extremely limited building site area dictated a two-story building. A partial basement was created due to the falling topography and functions as the central mechanical equipment area as well as the location of the central bulk storage room. The structure's massing was kept low and horizontal to create a more humanistic and less intimidating scale.

In dealing with a two story school, elevators provide a vertical circulation source for the handicapped students. However, this is a time consuming method considering the wheelchair bound enrollment. Therefore, a series of ramps were developed to accommodate the vertical transition and to satisfy exiting requirements for the handicapped.

The second floor consists of classroom pods around the perimeter of the building. Each pod or "house" is comprised of four classrooms clustered around a carpeted central resource area which provides individualized instruction and instructional tools unique to that pod. In merging two distinct ability groups of students in an academic environment, the design challenge was to develop a classroom which took the focus off the handicap and put the focus on learning. The faculty is organized into teams and are assigned to a classroom cluster or "house" from which they teach. The classrooms are divided by folding acoustical partitions which enable the classrooms to open up for large class learning experience or to be closed for traditional classroom teaching techniques. This flexibility allows the faculty
team to tailor their curriculum to the mixed abilities and personalities of their students. The enrollment of 600 pupils accounts for only one-third of the potential student capacity of the new $15,000,000 facility. Of the 600 students, 400 are regular-education students.

The handicapped and exceptional students are able to learn with the regular students in the same classroom environment. Details include mounting the blackboards out from the wall which creates knee space for the wheelchair into position. The design detail is an effort to diminish the self-conscious feeling of their handicap and to emphasize a spirit of cooperative learning. Seven of these classroom clusters face the main resource area, which houses the library and computer center. Wide corridors, doorways and handrails throughout the hallways provide handicapped accessibility. The corridors also feature specially patterned floors to help visually impaired students distinguish between walls and floors. Additional amenities designed to meet the needs of exceptional students include lowered sinks, water fountains and tilted mirrors in the restrooms.

The design concept developed for the interior spacial systems emphasizes flexibility, bright spaces achieved by natural light, and ample circulation clearances to accommodate handicap needs. The first floor focuses on children in the early childhood groups, providing direct access to a structural outdoor play area. The unpredictable weather posed another design challenge. Younger students with high energy levels are forced inside when bitter cold or rain persists. The design developed multiple indoor play areas with large expansive windows which allow ample natural light and a spectacular view of the tree-lined banks of the Milwaukee River. These play areas are equipped with floor drains which allow activities which include sand, water, paints and other materials which may be too messy or restrictive in the classroom. The first floor also contains the cafeteria and adjoining state area which allows the cafeteria space to be used as auditorium seating. The cafeteria also serves as an arrival and staging area for handicapped children in transit from the adjacent bus drop-off platform. In addition to housing the administrative functions, the remainder of the first level is devoted to areas that serve admirably as means of exiting and building evacuation.

Bonnie Vick, principal at Gaenslen School, played an important role in establishing the needs of the children so the architects could visualize and plan wisely. She emphasizes that mainstreaming is not what is done at her school. Mainstreaming indicates that all children are capable of meeting the standards of their age group. The Gaenslen program is integrative. The large number of handicapped interact socially and scholastically with regular students and academically reach only as high as each is possible. Now that the building is in use, Bonnie Vick has praise for the internal ramp design. The ramps are tucked away within the building design and do not impose on other areas. They serve admirably as means of exiting and building evacuation.

At the monthly fire drill, this school with 657 able and severely handicapped children can evacuate the building in less than three minutes. (Two drills have been timed 2.45 and 2.5 minutes.) Fire officials and school staff are proud of this life safety feature.
not always found in elementary schools though often needed for exceptional education. Among these are music, home economics, industrial arts, physical education, occupational and physical therapy and a swimming pool facility. The swimming pool area is equipped with ramped access and a small hoist and includes a therapeutic pool.

Many of the handicapped students rely on specially designed vehicles to transport them to and from school. The wheelchairs and other personal mobility assistance equipment requires additional space and the buses are equipped with hydraulic lift platforms to load and unload the wheelchair bound children. One can imagine the long lines of special vehicles before and after school. One by one the wheelchairs are secured on the platform and lowered onto the ground. It may take 15 minutes to unload a typical bus. Add the unpredictable Wisconsin weather and one can have uncomfortable and even hazardous conditions for these children.

The key factor in resolving this condition was to create a long linear loading/unloading platform to accommodate numerous buses. Similarly, this dock was developed at the same height as the bus floor. This eliminated the need for using the time consuming lift procedure. Once a bus arrives a "gang plank" type device is locked into place linking the bus floor to the loading platform. A continuous canopy stretches out from the entry doors over the top of the buses.

A learning environment for children who long for those physical and mental freedoms has been created. The architecture compliments the spirit generated within these walls. The focus is on the children, faculty and administration, who together, in a spirit of humanity, are enriching the lives of each other. The architecture serves as a monument to this human spirit.

Two small therapy pools were designed. One pool is shallow—two feet deep. It allows a student to lay prone for hands-on and manipulative therapy.

The other is about four feet deep and is called a gait training pool. Whirlpool jets relax muscles and help the student acquire a sense of balance so walking independently within the pool can become a possibility.
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**Architect:** R. C. Shutter Inc.

**Contractor:** McKee & Associates

The owners of this corporation are revitalizing the look of their restaurants. Sunrooms have been included in the architectural design, adding more openness and warmth to the atmosphere.

Van Halen used Pella clad casement windows with sloped glazing units in the assembly of the sunroom. The units feature Low E glass and Low E Slimshades.

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**CAD Architect**

Milwaukee firm specializing in CAD systems for use by engineers and architects seeks architect and CAD manager. Duties are to create and develop customized computer-aided design software for utilization by engineers and architects, train clients to use the CAD systems, perform architectural design services, and provide general consulting services in the area of computer-aided design and drafting. Requirements are a master’s or equivalent in Architecture, 1 year experience as an architect, 2 years experience in CAD customization, 300 hours experience teaching CAD courses, and must be trained and authorized by Autodesk to teach AutoCad. All experiences may be simultaneous. Salary is $34,320 annually for 40 hours work week, Monday through Friday. Contact Downtown Job Service, Attention Bernice Kimbrough, 819 N. 6th St., Milwaukee, WI 53203. (414) 227-4222. Job Order No. 0389575.
by Bill Babcock

Lien Law

Wisconsin's construction lien law definitely is not the easiest legislation to understand. Perfecting a construction lien is an art form on which numerous books have been published and seminars held.

In past legislative sessions, the WSA has supported proposals to clarify that architectural plans and specifications prepared to facilitate improvements to land should be covered by Wisconsin's construction lien law. Unfortunately, these proposals have "died" in legislative committees.

In the past several months, a number of WSA members have requested information about Wisconsin's construction lien law. Probably the best advice is to find a good attorney familiar with construction law. Specific statutory procedures vary according to the nature of the project and the type of lien claimant. Appropriate notices must be served within specified time limits. It's complicated and changes with case law.

One member recently asked about the ten day preliminary notice requirement for private small projects. According to section 779.02(2), a prime contractor (defined to include architects) who will use subcontractors or materialmen on a small private project must include a preliminary notice in any written contract with the owner. If there is no written contract, the preliminary notice must be given to the owner, in person or by registered mail, within ten days after the first labor or materials are furnished. The statutes specify the recommended language for this notice and require that, if it is not in the written contract, a separate notice be provided in at least 8-point bold type or in capital letters.

The purpose of the ten day notice requirement for small private projects is to provide owners, who may be inexperienced and unaware of the construction lien law, early and effective notice that they may be receiving notices from potential lien claimants. Small private projects include residential projects of four units or less and nonresidential improvements of 10,000 total usable square feet of floor space or less. The courts also have identified several situations where a ten day notice may not be required. One is where there are several separate small structures owned by the same person. The other exemption is when the prime contractor is an owner or will use no subcontractors or materialmen.
Carpet is the Answer for Some Hospitals: Is it Right for your Client?

Designing medical care facilities to meet the changing needs of an aging, cost conscious society is becoming increasingly complex. More choices in material enable the architect/design team to develop a less institutional environment. However, demands to contain rising medical care expense, especially facility operating costs, require the architect/design team to strike a balance in interior finishes which are practical, attractive, comforting, easy to care for and cost effective. Designers are using carpet more and more to fulfill this urgent need.

Physical and visual warmth is increased where carpet is used. Drafty floors are eliminated, corridor noise is muffled, and, overall, a more quieting homelike atmosphere can be maintained benefitting both patients and staff.

But using carpet as the primary floor covering, from the practical aspects of maintaining it to the high standards expected of a hospital environment, requires a conscientious commitment by the housekeeping staff. This requires following a regular schedule along with having a quick response procedure to effectively deal with spillage.

When planning floor covering for a hospital, one type of surface should be installed exclusively to maximize housekeeping efficiency and promote patient, visitor and staff safety. Different flooring materials, especially carpet when combined with hard surface, can add to tripping problems at transition points. Simply caring for various types of flooring requires additional equipment, staff training and scheduled procedures for each type which increases labor, equipment and chemical costs. In addition, waxed floors requiring periodic stripping can affect indoor air quality. Cleaning carpet using a water extraction system will leave carpet damp. At intersections, moisture can be picked up on feet and tracked onto the hard surface, which can become slippery and dangerous. These are just some of the reasons why one primary floor covering system is the most practical approach.

Spillage on hard surface can become extremely hazardous leading to slips, and falls and can possibly cause serious injuries. Carpet, by comparison, is inherently slip resistant even when wet.

Overall soil accumulation is not the primary concern in hospitals; whereas spillage and cleanup are. Caring for carpet and keeping it in top flight condition requires a clear understanding of how to address such problems in a quick, efficient and productive way. Housekeeping, with the cooperation of the nursing staff, has to be supportive of the idea that carpet can perform satisfactorily in the hospital setting. Both staffs must cooperate and communicate to be sure daily incidents are dealt with quickly and efficiently to keep carpet in the same clean condition as other furnishings.

The modern hospital is striving to become less threatening and more comforting and sensitive to reduce patient and staff stress and anxiety. It is a departmentalized medical treatment center conducting outpatient services and trauma response in addition to non-ambulatory care. Where hospitals once fit patients into their accommodations, today’s hospital areas are being designed to meet the specific type of accommodations that increase the comfort to patient care.

Psychiatric wards need the quieting ambiance of carpeted surfaces as a more homelike setting tends to calm and comfort and detract from the perceived institutional setting. Modern birthing wards have been transformed from the institutional to more homelike settings as medical facilities compete for a dwindling number of patients.

Hospitals are service businesses. They have been forced to become cognizant of a world where consumers are mobile and can travel to obtain the health care they choose. Space planning has to strike a balance between the conservative and practical interior to reflect efficiency and cost constraint and yet not look too trendy so as to become dated.

Columbus Community Hospital, located twenty-four miles northeast of Madison, is a rural hospital which has to present an image that is compared to larger medical facilities found in the larger city. “It’s important what we say to the public through how we present our facility,” says Miles Meyer, Administrator. Rural community hospitals must project a professional image to convey they have state-of-the-art medical care while staying within the restraints of a conservative tone that reflects their community.

Although carpet has been used in hospital office spaces, patient lounges and certain wards for many years, and in spite of increased marketing efforts advanced by carpet mills and fiber producers, the hospital industry continues to approach the use of carpet in patient care areas with caution. Smaller hospitals often are forced to hire outside contractors to maintain floors. Maintaining control over response times to service spills can be a problem which discourages the use of carpet, especially in patient areas.

“You’ve got to have housekeeping on your side, if carpet is to be truly workable,” says Thaina.
Farah, interior designer for Berners - Schober Associates Green Bay. The firm has had a long standing practice of hospital design but continues to take a cautious approach to carpet, especially in patient care areas. New technologies in fiber, backings and carpet constructions have made carpets easier to care for, but still a continuous care program is needed to keep the carpet clean.

The training, skills and equipment housekeepers need to respond to the spillage and floor surface soil in the medical care facility are different from dusting and damp mopping hard surfaces. However, maintaining carpet by keeping it continuously clean has been shown to be considerably less costly than maintaining hard surface.

St. Luke's Hospital in Milwaukee, a one million square foot, 770 bed facility, has been gradually carpeting its hard surface areas over the past seven years. The addition of carpet has a twofold benefit—upgrading the interior ambiance, and, more importantly, taking greater advantage of lower maintenance costs carpet makes possible. Currently about 40,000 square yards of carpet have been installed in corridors, waiting areas and patient lounges. Almost half of its patient rooms have been carpeted. The majority of carpet installed, thus far, has been Collins & Aikman's Pinnacle (6 ft. wide broadloom) and Pinnacle T (carpet tile), 26 oz. yarn weight, 1/10th gauge, .156 average pile height, Zefton ZX BCF Solution Dyed nylon. Both products are made with moisture resistant PVC backing.

Aralee Skardina, manager of Housekeeper Services at St. Luke's, has found that by using carpet to cover over hard surface, two-thirds more space is being maintained with one-third less staff. St. Luke's housekeeping maintains the carpet following Host's Dry Extraction 21-day Computer Aided Maintenance Planning guide developed expressly for the hospital by Racine Industries, Racine.

The success of carpet and its care at St. Luke's has been so dramatic in reducing maintenance costs, the savings are being reinvested each year to pay for the changeover. To date, the estimated annual maintenance savings are estimated at $350,000. According to St. Luke's housekeeping, carpeted areas are being maintained fully including daily vacuuming, spot removal and chemical cleaning at one-sixth the cost of hard surface; a savings equal to about $1.00 per square foot each year. St. Luke's plans to continue carpeting the facility, where practical, until all patient areas have been covered.

Hammel, Green & Abrahamson, Inc. in Milwaukee is handling the four floor, 112-bed addition to the Knelsey Building now under construction. Carpet will be used in the 96-bed addition while a “carpetlike” flooring product is being tested for possible use in the 16-bed MRICU addition.

Why Carpet Maintenance Differs
Carpet absorbs and localizes soil in the area where feet first make contact. Entry points from outside, when buffered by using walk-off mats or transitional carpet tile implants at entrances, can greatly reduce the invasion of dry dirt and oily soils carried into the building. Regular vacuuming and servicing spills promptly supported by periodic chemical cleaning in areas leading from entry points, funnel areas and pivot points can reduce the daily cleaning time by up to forty percent.

Carpet Specification Guidelines
The carpet has to be engineered to the end use requirements. Not only must the care system and maintenance schedule be matched to the specialized needs of each
health care facility, the carpet must be built to be highly responsive and compatible to the use. Rolling wheels must be easily accommodated. A tightly constructed nylon loop pile in a low tight profile with a pile thickness no more than .125 inches meets the criteria.

Choosing a fiber that is highly stain resistant, while important, does not guarantee the carpet cannot be stained. Nor should one assume that stain resistance, in any way, implies the carpet will require less cleaning.

Nylon is the most widely used fiber of choice. Its durability and cleanability are well known. Stain resistance is maximized through selecting nylon dyed in solution form and prior to being extruded into fiber. Known as SDN, nylon continuous filament when tufted or woven in a low loop pile need contain no more than 26 ounces, and preferably less, with a minimum average pile density of 6000 ounces per cubic yard.

$$\text{Average Pile Density} = \frac{\text{Pile weight} \times 36}{\text{Pile thickness}}$$

Since body fluids, liquid foods and medicines may include dyes when contacting the carpet, removal is made easier when the residue cannot penetrate into the carpet backing. The use of a non-air permeable backing such as polyvinyl chloride (PVC), ethylene vinyl acetate (EVA), or densified polyurethane foam, (e.g., Dow's Enhancer V) backing system will keep liquids from soaking into the carpet backing increasing response to maintenance. These firm, resilient backings can also be installed with adhesives with lower volatile organic chemical emissions, thus reducing air toxicants. When removed, they can be stripped out readily and replaced avoiding the scraping, filling and patching often necessary to remove conventional glued direct carpet. Such “sealed” backings are recommended for patient care areas and corridors.

**Considerations When Planning Carpeted Areas**

When planning carpet for corridors and lounges where patients are getting up and moving following surgery or trauma, a low profile, dense carpet surface promotes a sense of underfoot support and security. Where frequent spillage may occur, corridors and patient area carpet colorations should be monochromes in monochromatic tones so spills can be readily seen. In that way, spills can be attended to promptly. Also, patterns may add to patient disorientation when under the influence of medications or unstable on their feet following extended bed rest and limited physical activity.

Antimicrobial agents are included in the manufacture of most carpets marketed for the health care institution. While the carpet industry touts the benefits and the need for such low emission toxicants, there is little independent evidence that supports such treatments are a measurable benefit for the hospital environment.

The proper carpet, with attentive care, can help make a hospital more comfortable and competitive. But, it takes good planning and maintenance follow-through to deliver the savings. Carpet is not a panacea for hospital environments. Like the patient, carpet requires daily care even though it may not appear to need it. Attention to daily cleaning will result in less chemical cleaning, and therein lies the cost savings advantages unique to carpet.

**Workers installing carpet in a patient room at St. Luke's Hospital in Milwaukee.**

Photo courtesy of Collins & Aikman Floor Covering Division.
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by Bill Babcock

Forum

Economic Pulse

Wisconsin architects, for the most part, remain busy and are optimistic about the future. This encouraging discovery is based on the responses of 150 WSA members in July to a survey intended to take a quick “economic pulse” of architectural practice in Wisconsin.

When asked how business in the first half of 1991 compared to 1990, 62% of all the members responding said business was either “up” or “about the same.” However, 37% indicated business was “down” compared to a year ago. This makes it difficult to generalize about the current trend in architectural practice in Wisconsin. While the majority appear to be rising with the tide of Wisconsin’s relative economic prosperity or at least treading water, a significant percentage are struggling in terms of maintaining their level of business activity. This could be due in part to the fact that 1990 was an exceptional year for many architects, creating a hard act to follow.

Looking at the responses to this survey question by area of the state, the percentage of members responding that business in 1991 was up or about the same ranged from 55% in the Southeast Chapter to 78% in the Northwest Chapter. Firm size did not appear to make a great deal of difference. For example, 66% of the members with one- or two-person firms reported that business was up or steady compared to 63% of the members with firms of more than 40 employees.

Looking ahead, 83% of all the members who responded expect business to either remain “about the same” or “increase” in the second half of this year. Regarding expectations for 1992, 56% said they are “optimistic” while 27% are “uncertain” and 16% are “concerned.” It is interesting to note that while the Northwest Chapter had the largest percentage of members who are optimistic about prospects for 1992 (78%), it also had the largest percentage who are concerned (28%). Grouping responses by size of firm, members in firms with 11-20 employees had the largest percentage of optimistic responses (67%).

Finally, when asked about accounts receivable, 25% of all members responding indicated that current accounts outstanding for more than 30 days are higher now than one year ago, but this percentage ranges from a low of 6% in the Northwest to a high of 42% in the Southeast.

Can any definite conclusions be drawn from the results of this survey of WSA members? Probably not. However, when asked to identify the one thing that the WSA could do to strengthen the practice of architecture in Wisconsin, one architect answered “Pray!” While there may be something to be said about self-fulfilling prophecies, a little divine intervention never seems to hurt.
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**WSA Fall Workshop**

Pull out your appointment calendar and reserve Friday, October 18, 1991, to participate in this year’s annual WSA Fall Workshop at Devil's Head resort/conference center in Merrimac, Wisconsin. Building upon the successful one-day practice-oriented seminars conducted in recent years, the 1991 WSA Fall Workshop will continue the examination of future trends shaping the profession and the secrets to achieving your preferred future.

Fall Workshop chairman Joseph Powelka, AIA, has put together an exciting and informative schedule of programs and speakers to address the theme *Breaking with Tradition...Architecture for Tomorrow.* In planning for this year’s Fall Workshop, Powelka was intrigued by predictions by marketing gurus of the eventual demise of medium-sized firms due to changing market trends. Such prophesies suggest that diversification and specialization are necessary ingredients for survival in today’s competitive marketplace, according to Powelka. What makes one firm stand out from the rest? What can architects do to meet the challenges brought about by the rapid changes all around us?

1991 WSA Fall Workshop speakers will examine the external forces affecting the profession and identify the types of services owners will be expecting from architects in the future. The distinguished faculty for this year’s Fall Workshop includes Cynthia A. Woodward, AIA, a leading and nationally respected human resources management and professional development consultant, and Robert A. Degenhardt, PE, executive vice president and chief operating officer of Ellerbe Becket, a future-oriented firm that has prospered by becoming a diversified design and service company capable of meeting the total facility needs of a wide range of clients.

During the afternoon session, a panel of Wisconsin building owners and facilities managers has been invited to participate in a free-wheeling exchange of ideas on the scope of services that will be expected from architects in the future. Panelists include: Robert N. Brandherm, PE, secretary of the Wisconsin State Building Commission and administrator of the Division of State Facilities Management; James T. Plowman, director-corporate facilities management for S.C. Johnson & Son, Inc.; and James Whiteside, PE, director of facilities and equipment services for American Family Insurance.

Plan to participate in the 1991 WSA Fall Workshop and gain insights into emerging trends and client needs so that you can be better prepared for the profession’s future. “To help us survive in today’s rapidly changing business environment, this year’s Fall Workshop was designed to provide architects with a better understanding of the forces shaping the profession and how to plan accordingly,” Powelka said.

For more information or to register, contact the WSA office at 1-800-ARCHITECT/(608) 257-8477. A limited number of rooms has been reserved at Devil’s Head for Fall Workshop participants for the evening of October 17th. For reservations, call Devil’s Head at 1-800-472-6670/(608) 493-2251. Room rates are $50 single or $55 double occupancy.

**1992 WSA Officers**

At its August meeting, the Board of Directors of the Wisconsin Society of Architects unanimously approved the nominations of Emma Macari, AIA, Madison, as 1992 WSA Vice President/President-Elect and Ross T. Potter, AIA, Madison, as 1992 WSA Secretary/Treasurer.

Macari and Potter will join Roger Roslansky, AIA, La Crosse, and Richard Eschner, AIA, Shorewood, on the 1992 WSA Executive Committee. Roslansky will serve as 1992 WSA President, while Eschner will complete his four-year tour of duty on the Executive Committee as Past President.

**Statute of Repose**

In 1961, Wisconsin became the first state to enact a “statute of repose” to bar lawsuits against architects, engineers and contractors after a specified number of years following substantial completion of a building project. As a result of a 1989 Wisconsin Supreme Court opinion, however, Wisconsin now is one of only five states without such statutory protection for the design and construction industry.

The WSA is part of a coalition working to get a new and improved ten-year statute of repose adopted for Wisconsin. Earlier this year, the coalition of Wisconsin design and construction industry groups came close to getting statute of repose language included in the state budget bill. Separate legislation has been drafted and should be ready for introduction this fall.

The following is reprinted with permission from the July 1991 *Liability Update* newsletter published by the Office for Professional Liability Research of...
Schinnerer Management Services, Inc. If misery loves company, this article shows that statutes of repose are consistently under attack in other states.

Although statutes of repose for design professionals have been in existence since 1961, and since most of those laws have been subjected to legal attack on constitutional grounds despite the fact that they have been upheld by the state courts in most cases, new cases continue to arise to challenge such laws.

Most recently, the Missouri law, enacted in 1976, has been challenged for the first time in three cases consolidated for hearing before the Missouri Supreme Court. The A/E professional societies are in the process of filing a "friend of the court" brief in the cases, arguing that the statute is a constitutionally sound measure providing a reasonable period of time (10 years) for a party to bring an action against a design professional or contractor following substantial completion of a project. After that period of time, it is reasonable to assume that any defect is more apt to be the result of inadequate maintenance by the owner. It is noted that the data show that 84.3% of all claims against design professionals are brought within 4 years of substantial completion; also if a claim arises more than 10 years after substantial completion the owner or person in possession of the property may be held liable for negligent maintenance.

In another new case, the Oklahoma 10 year statute is being challenged in a death case arising from an industrial accident. The Oklahoma law was upheld against a constitutional challenge in 1989 in a property damage case, thereby raising the question in the new case whether the 1989 decision by the state supreme court also applies to personal injury or death cases. The state professional societies and contractors have filed a "friend of the court" brief with the court, noting in detail the justification for statutes of repose to bar suits long after the project has been completed.

"These statutes not only protect the interests of injured persons but promote stability of ordinary business affairs," the brief comments. "The need to balance the interests of all potential litigants is especially crucial in an industry involving the design and construction of buildings and other improvements to real property. The useful life of such projects can extend over generations. Faced with this type longevity, architects, engineers, contractors, and builders and suppliers, and those who survive them, live with the threat of unlimited liability exposure arising from the original design and construction of the improvement."

Meanwhile, for the second time, the Kentucky Supreme Court has rejected a statute of repose. In 1990, the legislature enacted a 7 year statute to replace a 1966 five year law declared unconstitutional in 1985. In the new decision, the court restated its earlier objection that the law was arbitrary because it provides protection to those engaged in design and construction, but not to others involved in the project such, such as suppliers, manufacturers, and materialmen, even though those categories were added in the 1990 law. However, the court said that the addition of those parties was limited to the extent that their products were used as construction components in an improvement of real property, but not as to uses of those products outside of construction. The extreme hostility of the Kentucky court was pointedly noted in its first decision, restated in the new opinion, denouncing AIA, NSPE, and AGC, by name, for having "lobbied" the law through the legislature for self-serving reasons.

A recent tabulation of statutes of repose throughout the country discloses that such laws have been upheld in 33 states, held unconstitutional in 7 states, and have an uncertain status in 6 states, and that there has been no final high court ruling in 6 states. Utah enacted a new statute in 1991 following rejection of its 7 year statute in 1989. The new law calls for cut off periods of 12 years for injury or death claims and 6 years for claims based on breach of contract.

**Liability Claims**

It was not that long ago that insured A/E firms had nearly a 50-50 chance of being sued. A recent survey of claims frequency indicates that the number of claims per 100 CNA-insured firms was 26.4 in 1990, nearly identical to the 26.2 claims per 100 insured A/E firms in 1989.

**ConDoc Workshop**

The WSA is pleased to be able to sponsor an AIA ConDoc workshop on Thursday, November 14, 1991 at the Abbey Resort on Lake Geneva in Fontana, Wisconsin.

The AIA Board of Directors has endorsed and fully supports the ConDoc methodology, recognizing it as a means to provide consistency, clarity and organization in the production of construction documents.

ConDoc is a production methodology for simplifying, standardizing and organizing construction documents. It formats and integrates drawings and specifications, which in turn reduces the likelihood of conflicts between drawings and specs through direct linking of documents. ConDoc saves valuable production time at start-up, in composing drawing sheets and details, during placement and reduction of text, when making changes and during bidding construction phases.
The AIA Professional Development Department began offering day-long ConDoc workshops in 1987. Since then, ConDoc has become one of the best-attended workshops offered by the AIA with more than 5,000 participants. Those attending include principals, project managers, office managers, specification writers, job captains, construction administrators, CAD managers and engineers. The ConDoc methodology has been adopted by a growing number of architecture firms, federal agencies and institutions.

The price of the workshop is $285 for the first registrant ($250 AIA member discount), and $150 for each additional registrant from the same firm. For a Workshop brochure, contact the WSA office. For further information or registration, contact Brenda Henderson, AIA Professional Development, (202) 626-7357.

**Award-Winning Owners**

Award-winning architecture requires award-winning owners. As the WSA Design Award presented to building owners acknowledges: "$...the execution of a well-designed building requires the agreement and enthusiastic inspiration of an understanding owner..."

Here are the award-winning owners recognized at the 1991 WSA Honor Awards Banquet in May:

City of Onalaska (Onalaska Public Library), Kenosha Public Library System (Gilbert M. Simmons Library), George Gialamas & Chris Priebel (Heurikon Corporation), Toldt Hennessy Group & Bank One (Kilbourn Knoll Historic Apartments), Madison Mutual Housing Association & WPL Holdings Inc. (The Avenue), Kohler Company (Kohler Design Center), Goldi’s Unmatched Pear, Inc. (Goldi), Riveredge Nature Center (Riveredge Nature Center) and Wisconsin Education Association Council (WEAC).

The award-winning projects for 1991 were featured in the July/August issued of Wisconsin Architect. If it wasn’t clear before, now you know the award-winning owners.

**AIA Salary Survey**

The 1990-91 recession is challenging conventional wisdom about the effect of economic slowdowns on the architectural profession. According to The American Institute of Architects (AIA), there are fewer full-time employees in the profession; but on the average, salaries have just about kept pace with the Consumer Price Index.

The information comes from the 1991 AIA Salary Report for Architectural Design Firms.

According to the survey, architecture firms have fewer employees since 1988, with 130,000 full-time workers currently reported. This reflects a 5 percent decline in the architectural work force since 1988, when 137,000 full-time employees were reported. Most of the decline is concentrated in intern-architect and technical staff positions. 

"The major news of the AIA's latest salary survey is the impact the recession is having on the practice of architecture through things like work force reduction," stated James P. Cramer, Hon. AIA, executive vice president and CEO of the Institute. "While this news is not by itself surprising, the specific consequences of this recession often are. For example, previous AIA surveys documented strong regional differences in compensation. The 1991 survey shows that the current recession has significantly narrowed the gaps in regional differences, resulting in a much more national economy so far as architecture is concerned."

The AIA Salary Report, is part of the AIA's ongoing commitment to maintaining reliable data on salary scales in the U.S. architectural services industry. The report's figures are calculated from responses to the 1991 AIA Firm Survey, mailed to 15,000 AIA member-owned firms at the beginning of the year. Because AIA member-owned firms constitute a large percentage of all firms offering architectural services (approximately 85 percent), the results are representative of the architectural services industry as a whole. The Salary Report breaks down the figures by state, by region, and by 19 major metropolitan markets.

One consequence of the recession appears to be the effort firms are making to look to the future by protecting their most important resource—creative staff. The survey data suggest that although the downturn in the construction market has caused principals and partners in firms along the eastern seaboard region to reduce their salaries, they are striving to keep their employees' salaries competitive across the board.

The average wage for employees of architecture firms has just about kept pace with inflation. For the positions identified in the survey, average annual compensation increased 9 percent since 1988, slightly less than the 10 percent change in the Consumer Price Index for the same period. Salaries for principals and partners increased 8 percent overall; those for associates increased 13 percent.

The recession has been hardest, on average, on those just entering the profession; their average salaries increased the least over the past two years. However, a positive and perhaps related phenomenon is that many of the youngest generation of professionals have increasingly explored work opportunities in career areas other than traditional architecture firms. These architects are employed in facilities management, construction, real estate, and finance—areas where they can enhance the overall influence of the profession throughout the complex process of creating architecture.
Although 95 percent of all firms owned by AIA members employ fewer than 20 people, the 5 percent of firms with 20 or more people employ one-half of the workforce. This relatively small group of firms employs 41 percent of all architects, one-third of all interns, and more than half of those working in professional, technical and nontechnical positions. Principals or partners in firms make up one-fifth of the workforce while staff architects and interns make up another 23 percent and 11 percent, respectively.

**People & Places**

Madison architect Stuart W. Gallaher, AIA, died in July of an apparent heart attack while on vacation. Well known and well liked, Gallaher designed many popular and recognizable facilities in the Madison area such as the Olbrich Botanical Gardens new conservatory and the pavilion at Garner Park as well as the entrance to Swiss Historical Village in New Glarus and the Hilton Inn in Lake Geneva. His family has suggested memorials to the Olbrich Botanical Gardens.

Eric Oxendorf, Milwaukee, WSA Professional Affiliate member and architectural photographer extraordinaire, recently took first and second place in *Industrial Photography’s* national 1991 Photo Annual contest. In the competition’s “Architectural and Engineering Documentation” category, Oxendorf’s photographs of the 411 Building and the Wisconsin State Assembly Chambers stole the show.

Under the category of “places,” is anyone interested in a vintage wood barn? The 75-100 year-old 32’ x 40’ barn located in Beloit at 2543 Prairie Ave. is for sale. For more information, contact Judy Nichols at (817) 485-7853.

Auer Avenue Grade School in Milwaukee is in desperate need of your old flat files. The school’s library recently acquired several big books, charts and posters and needs a place to store them. The school board carpentry shop will make repairs if the files aren’t in the best of shape. If you can help, contact Ann LaMarre, Librarian, Auer Avenue Grade School, 2319 West Auer Avenue, Milwaukee, Wisconsin 53206.

Talking about libraries, you can help increase the public’s awareness of architecture by purchasing gift subscriptions to *Wisconsin Architect* for your local public and school libraries. If this sounds like a good investment to you, call Cheryl Seurinck at the WSA office for details.

Historic Milwaukee, Inc. and the Wisconsin Chapter ASID are sponsoring a two-day seminar on Victorian interior and exterior decoration featuring Roger Moss and Gail Winkler on September 20-21, 1991, at UW-Milwaukee. For information and registration, call (414) 277-7795.

The Society of American Registered Architects is holding its 35th Annual Convention on October 9-13, 1991, at The Marquette Hotel in Minneapolis. For information call (708) 932-4622.

The Board of Parks and Recreation Commissioners in Kansas City, Missouri, is sponsoring a “New Age of Play Design Competition” for original and unique play equipment designs that are structurally sound, vandal and weather resistant, economical, accessible and aesthetically pleasing. Cash prizes will be awarded. Deadline for $40 entry fee is November 15, 1991. For more information, call Van Pool at (816) 444-3113.

**Membership Action**

Please welcome the following new WSA members:

**AIA**

- James L. Fryk, Southeast (Transfer)
- Steven R. Koy, Southeast (Advancement)
- James W. Macho, Southwest (Advancement)
- John R. Kurzawa, Southeast
- Wade C. Taylor, Southeast
- Lawrence L. Barton, Southwest (Advancement)
- Colin H. Klos, Northeast
- Robert L. Hoffman, Southeast
- James C. Morss, Southwest
- David K. Lawrence, Southeast

**Associate**

- Gregg Rake, Southeast
- Gerald L. Crain, Southwest
- Jeffrey Holzhauer, Southeast
- James A. Oezer, Southwest
- John G. Fleming, Southwest
- Todd Thune, Northwest
- Michael J. Sloter, Northeast
- Mark Kruiser, Southwest (Transfer)
- Thomas Luttig, Southwest
- James L. Robbins, Southeast
- Steven Connor, Southwest
- Margaret A. Farina, Southeast
- Scott Matula, Southwest
- David H. Plank, Northeast
- Timothy P. Gibbons, Southeast

**Professional Affiliate**

- Robyn Hoople, Northeast
- John T. Avery, Southeast
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The American Institute of Architects Benefit Insurance Trust
Lange Bros. Woodwork Co. has completed the acquisition of new production and computer technology to provide additional services for customers seeking value in quality custom mouldings. "With the investment in technology we have made, the complete job, from design to finish, can now be done in our facility right here in Milwaukee," said Randolph J. Lange.

Included are a new Weinig moulder to assist moulding customers requiring short runs and fast turnaround, and an advanced Foley/United grinder. Lange Bros.' Advanced Computer Aided Design (CAD) system enables the company to provide quick and accurate designs for innovative architectural woodwork. For more information call (414) 466-2226, or write to Lange Bros. Woodwork Co. Inc., 3920 W. Douglas Ave., Milwaukee, Wisconsin 53209-3599.

Krete Industries has introduced a brand new product named Krete Brite.

Krete Brite is a spray on liquid dispersion, that brightens colored concrete. It was formulated to enhance and brighten integrally colored concrete products such as: brick, pavers, block, roof tile, and segmented landscaping units. Environmentally safe, Krete Brite can be easily sprayed on.

For more information, contact Joe Kahn at Krete Industries, P.O. Box 343, Butler, Wisconsin 53007. Phone toll-free: (800) 777-9562. Fax: (414) 783-6470.

Bomanite Corporation's FlexTech rubber topping is a combination of recycled rubber granules and high-tech resins that are mixed on-site and troweled in place. This new paving system can resurface damaged and unsightly pavements and flooring without demolition. FlexTech can also be grouted, color-coated and even imprinted with Bomanite patterns. It adheres to concrete, asphalt, metal and a variety of other surfaces. Installation is fast, clean and environment friendly. FlexTech is a durable, non-skid, resilient surface perfect for plazas, foyers, restaurants, pool and roof decks, driveways, ramps, walkways, etc.

For more information, contact Landforms, Inc. in Verona at (608) 854-6778, or Bomanite of Wisconsin in Appleton at (414) 731-0070.

A new hands-free water cooler, that automatically turns on when approached, has been introduced by Elkay Manufacturing Company. This new water cooler is sensor operated by an on-off solenoid valve, that is activated by an infra-red light beam sensor. In operation, an individual steps in front of the cooler and interrupts the light beam. The interruption activates the opening of a solenoid valve allowing the water to flow.

A maximum running time of 30 seconds prevents malicious damage to the cooler or water damage when the sensor vision is blocked. The cooler automatically resets when blockage is removed. A built-in time delay prevents actuation by persons moving past the cooler. Like all Elkay barrier-free models, the Hands-Free Water Cooler complies with the lead-free definition in the Safe Drinking Water Act of 1986 and the Lead Contamination Control Act of 1988.

For more information, contact Elkay Manufacturing Company, 2222 Camden Court, Oak Brook, IL 60521. (708) 574-8484.
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