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Comparative Spans

<table>
<thead>
<tr>
<th>Sheathing Thickness</th>
<th>Oxboard Sheathing Span</th>
<th>Plywood Sheathing Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>24/0</td>
<td>NA</td>
</tr>
<tr>
<td>Max. roof span/no clips</td>
<td>20</td>
<td>NA</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>24/16</td>
<td>24/0</td>
</tr>
<tr>
<td>Max. roof span/no clips</td>
<td>24</td>
<td>16</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>32/16</td>
<td>24/16</td>
</tr>
<tr>
<td>Max. roof span/no clips</td>
<td>26</td>
<td>24</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>40/20</td>
<td>NA</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>48/24</td>
<td>NA</td>
</tr>
</tbody>
</table>

1 - Left-hand number is maximum recommended spacing of roof framing in inches. Right-hand number is maximum span between floor joists.
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Walker panel will crit new buildings

When the current wave of downtown Minneapolis building is complete, will the city be better or worse? A panel of distinguished architects, critics and planners will critique four of the new projects at a symposium to be held May 13–15 at the Walker Art Center. The projects to be discussed, now under construction, are: City Center, the Piper Jaffray Tower, Riverplace, and 701 Fourth Avenue South, on the Charlie’s Cafe site.

The panel will include architect Jaquelin Robertson, architectural historian Michael Dennis, critic Joseph Giovannini, Adele Chatheld-Taylor, a New York historic preservationist, urban planner Martin Krieger, and Robert Maguire, a Los Angeles developer. A lecture by Rem Koolhaas, Dutch architect and author of Delirious New York, will open the symposium Friday evening. Saturday the panel and audience will tour the sites and hear presentations by the project architects and planners. The panel will evaluate the buildings and then, on Sunday morning, lead audience discussions.

For more information, contact Walker Art Center, 375-7600.

Innovative diabetes center planned for St. Louis Park

The proposed International Diabetes Center in St. Louis Park, Minnesota, represents a revolutionary approach to the treatment of diabetes. If sufficient funding is raised to construct it—and this looks likely—it will be the most comprehensive diabetes treatment center in the world and a model for the treatment of other chronic disorders.

The purpose of the International Diabetes Center is to bring together diabetics and their families with a team of physician specialists to learn the most up-to-date techniques in diabetes control, emphasizing wellness. It will also be a research and education center for physicians and other health care people from all over the world. The founders believe that better informed diabetics and better informed physicians will help prevent the very serious complications which can arise from diabetes, including cardiovascular disease, blindness, kidney failure and birth defects.

Designed by Minneapolis architectural firm Setter, Leach, & Lindstrom, the International Diabetes Center will have four levels. An exercise therapy center and gym will fill the lower level; research labs/clinics, examination rooms and retail stores will be on the first level; a nutrition center and classrooms on the second level; and lodging for 20 patients and their families on the third, along with an outdoor exercise area.

New “renewal” facility is linked to Hazelden Center for chemically dependent

In recognition of the need for an aftercare program for individuals who have completed its rehabilitation program, the Hazelden Center at Center City, Minnesota, has commissioned Hills Gilbertson Architects, Inc., of Minneapolis, to design a special “renewal” facility on the non-profit organization’s 250-acre site. The new structure will accommodate 28 persons in double and single guest rooms. Partially earth-sheltered and designed for solar energy gain, the renewal center provides meeting, lounge and dining facilities for the rehabilitated chemically dependent who return for short-term retreats. The building’s anticipated completion date is summer, 1984.

AIA honors three Minneapolis architects

Three members of the Minnesota Society of the American Institute of Architects have been advanced to the Institute’s prestigious College of Fellows. They are: David J. Bennett of BRW, Inc., and Herbert A. Ketcham Jr., and John W. Lackens Jr. of Architectural Alliance. Fellowship is the highest honor the AIA can confer on any member with the exception of the Gold Medal.

continued on page 76
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Chips off the old block

Apprentice stonecutters are learning an ancient skill at on-again-off-again Cathedral (The New York Times). Architecture critic Paul Goldberger reported recently that work has begun once again, for the umpteenth time, on the oldest unfinished religious edifice in America, if not the world—New York City's Cathedral Church of St. John the Divine. Begun in 1892, the latest burst of building at St. John's resumed last fall under the supervision of an English master mason. But something new and enlightened has been added—a work program for youths in the nearby Harlem and Morningside Heights neighborhoods. They are being trained in the centuries-old craft of stoncutting—"an absolutely natural marriage," writes Goldberger, "between the needs of the cathedral and the needs of the surrounding community."

A nourishing design trend

The Finger-food court, where Chinese and Tex-Mex mix, gains second generation sophistication (Urban Land, March '83). It has always been known that a public place such as Peavey Plaza in downtown Minneapolis needs the sensory appeal of fun foods, available on site, to succeed as a social magnet (Peavey Plaza, of course, has no such magnet and suffers accordingly). Writer-designer David Lemonds summarizes in this issue the surprisingly recent development of the "food court," as it is known in the real estate game, and its significance as an architectural and economic element in urban growth. Says Lemonds, "Except for urban marketplaces, there is still debate about whether a food court can provide enough identity to generate traffic on its own unless it is of extraordinary flair... Among the most successful food courts, the seating encourages the pleasure of seeing and being seen."

"The open kitchens of various new food court cafés, such as Colorado Place in Santa Monica or the Copley Place restaurants in Boston conceived by food consultant George Lang, bring a new role-playing to people watching. From the first crepe kitchens, where patrons watched the diet assembly of their meal or dessert, one now witnesses any manner of food display and preparation."

When is architecture a steal?

Or, how does plagiarism differ from the sincerest form of flattery? The answer, according to Joseph Giovannini in the New York Times (March 17, '83) is, it all depends on who is doing what with whom for what reason. Citing designs by renowned architects that strongly resemble other, often lesser known architects' work, he reminds us of the following inconclusive situations:

- You may be able to protect an architectural drawing by copyrighting it as a product; but you are not likely to succeed in protecting a design as an idea.
- Thanks to the Copyright Act of 1978, the courts are focusing more attention on the use and abuse of architectural documents.

As for the degree of anguish felt in plagiarizing situations, writer Giovannini quotes Robert Venturi's epigrammatic gem: "There is a tendency of people to be generous in acknowledging insignificant influences."

Old post office now furiously reused

An 82-year-old landmark in Buffalo assumes new life for 2,000 college students (Building Design and Construction, March '83). Although the redesign of old buildings for new uses has accelerated so phenomenally as to be non-news, the payoffs in both economy and architectural quality are no less impressive. In this issue, Gordon Wright describes the adaptive reuse by Cannon Design, Inc. of the obsolete post office and federal building at Buffalo, New York.

Like many similar buildings of great age and scale, the Buffalo post office building seemed doomed for demolition after it was vacated in 1975. It was saved because a really valid community use was found for it; and its adaptation was made possible through its transfer, under the Surplus Buildings Act, by the federal government to the state for $1.

Of special note was the exceptional twin benefits that accrued: one, the $13.2 million project yielded high quality new space at a cost of about 25 percent less than new construction; and, two, the purpose could scarcely have been more worthy—namely, a new facility for 2,000 college students at a downtown campus of Erie Community College. Besides, the architectural impact is stunning, what with the reclaiming of a 100-foot-high atrium that spans some 12,000 square feet of daylit auditorium, library and cafeteria open space.

Sexist designs

Number of women student architects soars—and so does the list of concerns (Crit, Winter '83). Architecture doctoral candidate Rochelle Martin writes in the Association of Student Chapters (AIA) magazine that with women comprising up to 50 percent of the student population in some schools of architecture, their concerns and aspirations had better be heeded. The author's informal interviews of 20 women students elicited these common concerns:

- a need for role models and "networks"
- relationship with male classmates and faculty
- problems as non-traditional students
- resentment at being labeled "women architects"
- the dilemma of career and family

Not least of the male-female friction in the schools traces to comparative levels of achievement. Writes Rochelle Martin, "One woman told of slurs on her moral character when she received the highest grade in the class on a structures exam."
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Latest findings from the figures-lie-and-liars-figure department:

The other day I was stopped cold by a double-page ad in USA Today. Its headline proclaimed: "Rochester ranks #1 in quality of life." Beneath this cheeky boast, a sub-head added parenthetically, "And just look at the heavyweight cities we were measured against!"

Well, I mused, can this ad be referring to our world-famous center for health care and medical research in the southeast corner of the state? No, I learned soon enough, this paragon among cities was not Rochester, Minnesota. It was Rochester, New York.

Struck by the improbability of Rochester, New York ranking #1 over the fourteen other "heavyweight cities" enumerated in the USA Today ad, I wondered who did the ranking. I soon found out. Reading further, I was able to deduce that since the same folks who paid for the ad also commissioned the "prestigious" research firm that produced the rankings, Rochester itself decided, in effect, that it was #1.

If you missed the ad, you are entitled to know how the rest of the heavyweights ranked. After Rochester in descending order, the fourteen were: Seattle, Minneapolis, Denver, Boston, Cincinnati, San Francisco, Nashville, Philadelphia, Chicago, Washington, D.C., Dallas, New York City, Phoenix, and Atlanta.

At least two lessons can be gleaned, I think, from Rochester’s flight into hyperbole. One is that such buzz phrases as "quality of life" have a way of biting you on the ankle when they are mistreated. For example, any survey that purports to rank heavyweight cities by such crazy-mixed-up criteria as "weather," "work force," and "citizen awareness & concern," is sure to confirm the sponsor’s overt biases and undermine his serious intentions. What Rochester is really after is ingenuously spelled out in its ad copy: It wants nice new high-tech industry. The way to lure it is to buy a quality of life survey that makes Rochester #1 in those categories deemed critically important to corporation presidents looking for a new plant site. Rochester, through its own survey, ranks itself #1 in "education," "work force," "low crime rate," and #2 in "citizen awareness & concern." But what corporation president will be fooled by such self-anointing?

The other lesson is as old as the hills. It is that one’s meat is another’s poison. Take Rochester’s view of "weather." It ranks itself #6, which presumably should be taken to mean not too bad, not too good—sort of bracing. San Francisco’s weather is rated #1, Boston’s #2, Seattle’s #3, Phoenix’s #4, and New York’s #5. I challenge anyone, other than Rochester, to formulate a rational theory which explains such a bizarre ranking of dissimilar climates.

Personally, I am glad to see that Rochester ranks the Minneapolis weather #11, by which I take it they mean terrible. This jaundiced opinion tells me that if a person is determined to come to the Twin Cities region (and bring his nice clean high-tech industry along?), it is because of a whole lot of other compelling reasons besides the weather. Like the late Tom McCall, who, during his lively years as Governor of Oregon urged people to "visit Oregon but don’t stay," I would worry about populating this invigorating environment with people whose horizons stretch no farther than witlessly being #1.

William Houseman
Editor
Americans seem bent on living forever, judging from the psychic energy and hard cash they spend on looking, staying and getting well. This year the bill for Medicaid and Medicare alone will be $75 billion; and if such a sum seems incomprehensible to you in an age of trillion-dollar economies, just wait five years. By 1988, the Congressional Budget Office anticipates that our medical assistance programs will cost $142 billion, or twice as much as all other federal spending.

Paradoxically, the hospitals we build, the physicians we train, and the health care we provide—none of these figure to help people live longer. Recent studies have suggested a finite life span for human beings that probably has not changed over the last hundred thousand years. Indeed, a mean life expectancy of approximately 85 years has been posited as a biological wall which, based on what we know today, cannot be moved. Even more disconcerting for those who have clutched at the omniscient possibilities of medicine, the power of ever-improving health care to alter the life expectancy status quo is extremely limited.

Dr. James F. Mustard, an influential Canadian associated with the pioneering McMaster Health Sciences Centre in Ontario (see also Eberhard Zeidler's article, page 36), has written, "There is no doubt that medicine has introduced measures that have cured illness. Antibiotics and the treatment of meningitis is but one example with which we are all familiar. However, the illnesses that medical intervention cures are a very small proportion of illnesses that cause death. Therefore the effective treatment of these illnesses has little effect on our national statistics as far as life expectancy is concerned."

What, then, are we to think of health care and wellness? Most authorities agree that the philosophers have been right all along: It is not how long we live that counts but how well we live. Specifically, to the degree that the health care industry (to call it by its correct though unlovely name) borrows intelligently from the arts and social sciences to enhance the quality of patients' lives, it will be serving the public interest in an optimal fashion.

Here, of course, is where architecture enters the health care picture. To be sure, a building never cured anyone of anything (though, as we know, an inexpertly designed hospital can contribute to the risks of getting worse instead of better). But it is increasingly evident that a strong linkage exists between one's sense of wellness and the quality of a health care environment.

It has been pointed out elsewhere in this issue, for example, that the mental framework of a patient about to enter an operating room has a "measurable effect" on the rate of recovery. No imagination whatever is required to appreciate the salutary influence of a beautiful place to be just before entering surgery.

Before the architect is given the opportunity to practice the art of architecture in the design of health care facilities, however, the rules of the hospital game need to be rewritten. The physician, during the century of "professional sovereignty" described so conclusively by Paul Starr in his great work, The Social
Architects: Smiley Glotter.

Transformation of American Medicine, was the boss. The form and function of hospitals were determined less by the sensibilities of the designer than the monumental aspirations of the physicians-in-charge. The proof is seen in the enormous, ugly, inefficient and inhospitable hospital plants that have proliferated in his country.

But the times are changing, thanks in large measure to the emergence of society as a fabulous medical "market." We are seeing the rise of health care specialization patterned on Detroit, of all places, where the money is made, not on the basic product but on the extras. Sports medicine, for example. We may not be quite sure what it is, but it sounds good and we've got to have it. So, too, with emergicenters, dialysis centers, same-day surgery, and shopping mall clinics wherein the patient logs in, gets an electronic bleeper and merrily goes off shopping until bleeped back for an appointment.

In truth, health care and wellness have increasingly become a matter of giving people what they want. And what the American people want often defies a rational explanation. A recent ad in the New York Times Magazine announced the grand opening of a profit-seeking enterprise called the "Biofitness Institute" ("Dial(212) FIT-NES for more information"). Among the attractions offered are a BIOBIKE and a VERSA-CLIMBER aimed to improve "cardio vascular capacity," as well as SAMADHI FLOTATION and the first VIDEO SCREEN FLEXIBILITY PROGRAM.

Meanwhile, in the lotus land that is Southern California, the in thing is to "swing your way to health." Out there, writer Aljean Harmetz reports, "Everybody is looking for a quick way to stay young." In addition to people hanging by their heels from gym bars, "the search for instant youth and perpetual beauty has spilled over into a fanaticism about being physically fit"—including drinking less, going to bed early, and jogging at 4:30 a.m.

There is a fine irony in health care and fitness as a commodity to be bought and sold. For while the national obsession with wellness has people spending their hard-earned money on goods and services that have made for-profit health care a major growth industry, the orthodox medical establishment fueled by Medicaid and Medicare funding is causing the country to teeter toward bankruptcy.

A further irony is associated with the Reagan Administration's suspicion that the users of Medicaid and Medicare run up their medical bills on a variety of health services which they may not need but nevertheless take advantage of because they are either free or cheap. Presumably, if the charges for such health care are increased through proposed legislation now before Congress, our gigantic subsidized health care industry will become solvent but impoverished, thereby causing a greater imbalance between the quality of care for those who need help and those who don't. For a certainty, today's ferment foretells remarkable things to come in the way health care and wellness are marketed.

AM's Editors
Portlanders gain a healthy respect for fitness in their spirited Y

The local Y was once better known for preaching its triangular precepts of physical, mental and spiritual health than for implementing them. But times change, and the Metro YMCA Fitness Center in Portland, Oregon is proof positive. Designed by Broome, Oting-dulph, O'Toole, Rudolf & Associates (BOOR/A), it replaced a deteriorating downtown gym/hotel Y. The new Metro Y is as functionally invigorating as it is architecturally striking.

As a building and a pro-fitness force, it is taken seriously. Members may take a “stress test,” which measures an individual’s flexibility, endurance, muscle strength, and assesses body type, then receive guidance on a fitness program to pursue. Those who participate in the YMCardiac Therapy program, pioneered by the Portland Metro Y and supervised by physicians, must take the stress test first.

BOOR/A designed the Metro Y to accommodate this enlightened fitness program. Its new setting next to Dun- way Park allows members to jog on the park’s track or tackle Medical School Hill rising above the Y. The building’s curving form seems made for human movement. Indeed, the upper level window strip becomes a kinetic billboard for fitness at night as members jog around the indoor track. Nor is the pool hidden away. Its translucent bubble covering lets it glow at night and allows swimmers to see the sky during the day.

Inside, the building’s open plan renders the scope of the Y program immediately visible. Weight lifters, aerobic dancers, joggers and basketball players can see each other while exercising, encouraging a spirit of camaraderie. And, just as the windows display the Y activities at night, members may enjoy views of the outdoors from many vantage points.

This two-tone green Y in the heart of the greenest corner of the U.S.—Portland, Oregon—effectively promotes the Y program for the ’80s: improving total fitness—body, mind and spirit.
Poised on columns, the Metro Y Fitness Center follows the contour of Medical School Hill (left). The upper level (see model) houses the running track with an interior view of the gym (below left) and exercise areas. Administrative offices and an outdoor terrace are also on this level.

The middle level (see floor plan) contains the reception area (right), the handball and squash courts, child watching area, gym, individual and group exercise areas, locker rooms and a 25 meter pool.

Throughout the building, bright colors enliven selected walls, floor coverings, furnishings and mechanical systems. The reception area repeats the exterior greens; activity areas are in reds, yellows and oranges, while upper level offices are in fuchsias and plums.

Parking for cars and bicycles is hidden below grade—a convenience for rain-soaked Portlanders.

Though right downtown, the Y evokes a campuslike quietude.
When Kimberly-Clark built its Health Maintenance Facility in Neenah, Wisconsin, corporate investment in employees' well-being was considered a luxury. Now dollars spent to educate and encourage workers in healthful habits are becoming an essential part of the corporate bottom line. And much credit should go to Kimberly-Clark's example.

The company's $1.8 million dollar facility, designed by Ellerbe Associates, Inc. of Minneapolis, expresses the comprehensive scope of its prevention program. Medical examination rooms and classrooms transformed an unfinished part of the existing Research and Development Building into a health services center. A spanking new athletic building was added right next door. "The complex was built as an investment in the company's 4700 employees," says Fred Richter, Ellerbe project architect. "It's both an employee perquisite and a way to keep workers healthy and productive."

Kimberly-Clark's attractive example has encouraged other corporations to think prevention. Few build expensive additions, but many add exercise rooms, running tracks, or at least showers for commuting joggers or bikers. With fitness itself becoming a multi-million dollar business, the corporate gym may be a new building type of the 1980s.
Motorists passing Kimberly-Clark's headquarters may take a second look. There behind a corporate facade bodies are bending, stretching and running. From outside, the two-story Health Maintenance Facility, designed by Eierbe Architects, blends almost imperceptibly with the earlier HOK-designed Research and Development Building (opposite, left). But inside, a new kind of corporate activity is taking place, as workers swim, run or work out.

Kimberly Clark's program begins in the health services center in the R & D building, where a staff of 28 conducts medical evaluations, offers classes, and devises individualized exercise therapies. Then, in the adjoining athletic building, employees have access to an olympic size pool, running track, gym (above), weight room (top, opposite), and saunas and whirlpools.

Participation. Natural light, bright colors and instructive graphics cheer on the athletes (right). Exercisers enjoy a lake view; runners on the mezzanine level track also see the pool and exercise room (section, below). Doubtless, Eierbe's expertise in medical and corporate design was a propitious combination for Kimberly Clark.
The 60,000 square foot Eden Prairie Community Center, though built on a tight budget, conveys a suitable civic image through a low silhouette and mellow red exterior. The plan (below) divides the interior into "cool" and "hot" zones, with racquetball courts, office, locker and equipment areas intervening between them. Bleachers seat hockey game fans; pool is L-shaped to accommodate swimming meets held at 25-yard and 25-meter lane lengths. Allowance for future expansion, such as ice-making capacity, has been incorporated in plan.

PURE SPORT

Eden Prairie treats itself to fun and games for all ages

Eden Prairie is a small community near Minneapolis with a voracious appetite for sports. Unlike comparable suburban places, however, it has built itself a year-round recreation center that is as profitable as it is popular. Central to this happy state of affairs is the skill with which the architects, Smiley Glotter Associates, incorporated four of the townspeople's favorite activities—ice skating, swimming, racquetball and individual exercise—under one roof. Additionally, a sundeck with a wading pool at its edge expands the center's useful space in fair weather.

The center is organized around a central office core which controls access to all activity areas, thereby minimizing staffing needs. A strategic two-story spine buffers the temperature extremes between the ice arena and pool. Energy efficiency was a key design objective; a heat-reclaiming system from the ice arena is used to heat the swimming pool, domestic hot water, arena sub-soil and the arena itself. And in the pool and lobby areas, large insulated glass walls introduce natural light and solar gain. Located on a site within a pre-determined master plan, the center benefits as a community attraction by its proximity to Eden Prairie High School, athletic fields and a picnic area.
L-shaped swimming pool and ice arena are both unmistakably identified by supergraphics on walls. Eden Prairie High's hockey team plays to capacity crowds, girls' swimming team has already set two national records. Special point of community pride: the hockey rink is being used as a practice surface by the Minnesota North Stars.
It is easy to imagine a four-year-old drawing a picture of a day care center that might look just like this one: an unadorned box painted red, yellow and blue. Thus it should also come as no surprise that the 98 children who spend most of their waking hours at the Children’s Hospital Child Care Center in St. Paul take to this playful environment like tadpoles to a lily pond. The fourth such center designed by the Minneapolis firm of Williams/O'Brien, this 5,000-square-foot stucco structure is notable not least for the speed with which it was designed and built: 90 days, in accordance with a client requirement. Past experience also served the architects appreciably in detailing their St. Paul project. They were careful, for example, to scale all cabinetry and work counters in classrooms to suit the sizes and abilities of the various age groups. Similarly, toilet/washroom facilities were incorporated not only for accommodating small people’s needs but also to encourage their learning of proper hygiene practices.

The center’s major organizing element is a skylit “street” that runs from the entrance to a rear playcourt. This clean sweep of a corridor neatly bisects the building into classroom and activities spaces on one side and staff, infant care and a food prep center on the other (see plan). Activity and classroom spaces can be expanded or contracted with movable partitions, and playcourts on three sides of the tight site enlarge the children’s recreational opportunities considerably on fair weather days. Roof trusses have been left exposed where practicable, painted a bright yellow, and pressed into service as handy members for hanging play equipment.

Vaulted skylight running the center’s length acts as both a major source of daylight (above) and an orienting element for all visitors but especially the preschoolers who are the prime users. The plan provides a sense of welcome beyond glass doors of main entrance through an open, carpeted “drop-in” area and a control desk staffed to assist parents in picking up or dropping off their children. A major virtue of the center is its allocation of every square foot (save for a very small staff room) to its central purpose; namely, serving the well-being of the children.
All but the tiniest children may come and go through center's doors without risking a bump in the nose, thanks to view windows low enough for small fry to see through (above). Dual lavatories of different heights enable toddlers to emulate grownups in the handwashing ritual.
Not so long ago I visited the University Hospital in Augsburg, Germany. It was built centuries ago and still functions. It is still a beautiful building. It still fits into the city, and it still creates its own appealing environment. What does this venerable hospital prove? Perhaps that architecture not only serves a limited function that changes with a changing society, but also that in the best of situations it can be an environment responsive to human emotions. In the design of our buildings, it is important to respond to human emotions, because it is this aspect of architecture that will not change in an otherwise rapidly changing world; emotionally, mankind is not much different than in Plato’s time.

Yet the physical comfort we demand today to satisfy our emotional equilibrium has altered drastically. We want to live longer, free of pain and discomfort, and we insist that the available technology be used to improve our prospects. The critic who pooh-poohs the scientific medical aspirations of a modern health center would also be quick to insist on being taken to such a place if only a complex medical procedure might reduce his suffering or prolong his personal life. He would scorn the aspirin pill of the barefoot doctor.

But here is the dilemma that faces the architecture of hospitals. While the elements of a hospital that respond to human emotions remain rather static, those that respond to technological needs have undergone rapid changes—and are still doing so: Catscanner Generation I is being challenged by Catscanner Generation II, with the third generation perhaps not far behind. The first Catscanner cost a million dollars, the next several millions. 

Our firm has been working in recent years on a large health sciences center in Alberta. Its department of radiology, now in a building of 1961 vintage, will be relocated into the new building this year. In the last decade, however, ten of the sixteen X-ray rooms have been totally renovated to keep this institution abreast of the state of the art. The renovation costs have been as high as $230 a square foot. It is this pattern that renders our hospitals economically obsolete before their time. About fifteen years ago, we were challenged by one of Canada’s outstanding young physicians, Dr. John Evans, to reconsider the design of the health sciences center in the city of
Hamilton. Our response took the form of a systems approach to hospital design. But it was systems with a small "s", not a system of mental organization of available technology than the devising of a rigid house solution. 

What was our principle? Really nothing new—a "bissocation," as Koestler would say. In essence, we transferred the rentable office building concept to the hospital field. Every developer of large office buildings knows that tenants have leases running from five to ten years, and they tend to be fickle. But the building itself will last, or should last, to the end of the mortgage period—at least 30 years.

So the developer builds a structure with a primary system that will allow a diverse number of tenants to move in. Each tenant is expected to do his own outfitting, particularly the interior partitions, special lighting, ventilating, and so forth. If and when any of the tenants move out, the primary building remains intact. The next tenants take over the space and adjust it to suit their particular needs.

A problem arises, however, in transferring this concept from an office building to a hospital. While the range of an office tenant's needs is quite limited, those of a hospital are much wider; a health sciences center literally has the same needs as a small city: from operating rooms to office space to animal quarters, operating rooms, bedrooms for patients, residences for interns, and so forth.

Our design of the McMaster Health Sciences Centre was nothing less than a feverish attempt to find an answer to this problem. Today, after more than a decade of use, McMaster has shown that Lady Luck was on our side.

We concentrated in the design process on a series of deductions—deductions to find the point at which available technology could create a physical environment, within the economic limitations of our society, that would provide for the small-city range of needs required in a hospital project of McMaster's size and scope.

Like any search for a new solution, McMaster was a leap into the unknown. It was only after the solution was found, of course, that we were able to prove logically a straight line of reasoning. At the outset, however, we did know that the cost of a hospital can be divided into quantifiable components: Approximately 15% is spent for structural elements; 29-39% for mechanical, 15% for electrical, 4-6% for exterior skin; and 15% for interior elements. The other 48—something between 10-22%—is spent for systems, building equipment and construction management.

Given these cost factors, we reasoned as follows: If we could build a structure capable of accepting any of the diverse hospital uses without having to adjust the structure itself; and if we could develop an exterior skin that would adjust to these diverse uses; and if we could design a basic mechanical system that would remain unchanged regardless of what uses were plugged into it, then we could achieve a hospital structure that performs like a commercial office tower. That is, it could remain unchanged regardless of the changes that might happen inside.

We further reasoned that if we could reach a 60% factor of retention of the original capital construction cost, then we would have realized the same efficiency as in a modern office building. Thus, if the "tenant" called radiology needed more space in the future, or wished to relocate somewhere else, these changed circumstances could be accommodated without losing the basic hospital building investment.

This flexibility based on retaining a considerable part of a building's original worth was one of three major innovations that were first applied in the McMaster project. The other two were the introduction of an interstitial space and an integrated mechanical system. Taking them one by one.

Interstitial space is the result of a structural system which allows a regular column spacing that accomplishes two things: (1) By design, it accommodates all future functions in the building's usable space; and (2) it provides for between-floors space (hence the term "interstitial") that allows for distribution of the mechanical system without interference with the usable space. Interstitial space had been used prior to McMaster, notably at the Greenwich Hospital in England and at Louis Kahn's Salk Institute in La Jolla. But McMaster was the first hospital to integrate interstitial space into a systems design including mechanical and electrical systems. Basically, the concept of an integrated mechanical system calls for separating a primary system that provides for all present and future functions, and a secondary distribution system that changes with the specific function—so that, with future changes, only minor interference with the building will occur.

At McMaster, 36 air-handling units related to fixed vertical shafts create a mechanical quilt in which, during functional changes, only one area will be affected; it can be easily removed and replaced, rather than changing the whole building as is necessary in a central system.

Has the McMaster Health Sciences Centre set a trend? I believe so. Not only has our firm been involved in the design of five large hospitals across Canada and the U.S. based on this system during the last dozen years, but also most of the other tertiary hospitals that have been planned in North America since McMaster have accepted these principles, totally or in part. And even Europe has followed this example.

Flexibility in such major health care projects comes not only through a building system that allows for future change but also through such secondary considerations as lab systems, partition systems, ceiling systems, and such. Offices and other spaces can be dimensioned, for example, to fulfill different future functions, ranging perhaps from office to examination use, by simply changing the sign on the door—rather than knocking down partitions.

But there is another important element in planning for flexibility—and that is the handling of traffic as an ordering grid. The concept is perhaps analogous to a street grid in which the street remains static for hundreds of years while the bordering buildings may change. Such a system is present in McMaster as well as other hospitals we have designed.

It is one thing, of course, to build a hospital that functions well today and in the decades ahead. It is another to design a health care environment which responds to the emotions of the people using it. Both practical needs and the response to human emotions have influenced the design of our firm's hospital projects as we have sought to create this elusive thing we call Architecture.

Consider how you enter a building. Most hospitals have a lobby, more or less devoid of people, more or less monumental in scale to stress the importance of the Institution. We've felt that the entrance into a hospital should be filled with activities, so we locate all of those which spell "life" in the entrance space. While we can defend such a decision on functional grounds, the main reason to put them there is to create a sense of vitality in the hospital. In the McMaster entrance concourse, we included a coffee shop overlooking the esplanade, an art gallery, a children's play area, various shops, a pharmacy—and also the entrances to most ambulatory facilities in the hospital such as rehabilitation, radiology, emergency, and family practice.

Another important element is orientation. Fatigue in walking is related not only to the actual distance but also the stimulation created during the walk itself. A corridor that gets you there may orient you, but you may be fatigued by its dullness. In a building continued on page 78
Patient care in-the-round

Except for the unavoidable circumstance that its guests are patients, Meridian Park Hospital at Tualatin, Oregon, looks and functions like a luxury-class motel. It is not brand new; having been completed in the mid-70s as a joint design project of the Portland firm of BOOR/A and Minneapolis-based El-lerbe. But its many “firsts” remain exemplary innovations in hospital design—including first hospital in the Northwest to have the El­lerbe-pioneered radial nursing stations (see plan); first with carpeting in all public spaces; first to use the Herman Miller Co-Struc system of interchangeable, wall-hung furnishings; first to employ the Swedish Kiva system of surgical tabletops custom designed for specific types of surgery as well as to plug into hydraulic pedestals in all operating rooms; and first to make extensive use of fine stained woods.

A 99-bed facility on a rolling 48-acre site, Meridian Park Hospital assumes an uninstitutionally low profile, its only visible element from a nearby freeway being the three-story nursing tower from which the patients—all in single-occupancy rooms—enjoy a view of the Oregon countryside.

Diamond-shaped twin towers accommodating all 99 single-occupancy patients' rooms are ingeniously designed to enable two registered nurses on each floor to maintain visual contact with patients in 17 rooms—from a single nursing station. Nurses are never more than 19 steps away from a patient's bedside. Each room has its own Swedish bath with flexible shower head adjustable for shampoo. Staff and public circulation are independent of each other, and several alcoves off the main corridor (top left) afford visitors a comfortable sitting-room ambience for intimate discussions with each other or physicians. The nursing towers and support wing are separated to enable them to be expanded if desired without unwelcome encroachment. Similarly, the mechanical plant and administration buildings are free-standing and set apart. Ground-hugging character of the hospital is enhanced by landscaped berms.
Like Meridian Park (opposite), the 77-bed rehabilitation hospital shown here emphatically honors the patient above all else. Designed by the Parkin Partnership of Toronto, the Royal Ottawa Regional Rehabilitation Centre makes its mission the rehabilitation of physically disabled people—and it succeeds through an exceptionally adroit meshing of architecture and psychology. Explains project architect Donald Wilson, "The process commences within the patient room. Great emphasis is placed on using standard instead of handicap-design fitments. The patient immediately begins to deal with real world conditions. He or she uses the same self-serve cafeteria used by the other patients, the staff and visitors. The principle of integration is carried out everywhere in the building, thus forcing continual interaction between the staff and the patients."

In areas adjacent to therapy rooms, specially designed planters are located, and patients are encouraged to care for the plants. A major rehab feature of the center is the apartment unit. Says Wilson, "It is designed to replicate the outside world. The patient's final days at RORRC are spent living here."
FOR THE CHEMICALLY DEPENDENT

A lofty setting for teens...

The dorms at the Jamestown Treatment Center near Stillwater, Minnesota, are easily mistaken for just two more family vacation houses in a pristine setting. Such an impression was consciously pursued by the architects, Smiley Glotter Associates, of Minneapolis, in their master plan for the Center and their design of the handsome young women's dorm shown here. A privately funded treatment center for chemically dependent young adults, Jamestown asked its architects "to create a sense of community in which each resident assumes responsibility for individual actions." Thus, while the young residents are free to leave if they choose, their home-like environment is designed to keep them from going prematurely. A spacious, open-ceilinged living room encourages casual socializing around the fireplace; and, nearby, a more intimate space invites slumber partying. Throughout, the abundance of natural wood finishes and exposed structural members contribute to a relaxed setting which helps to accelerate the residents' progress toward rehabilitation.

As in any well-ordered mini-neighborhood, the dormitories are sited with a dual emphasis on preserving the natural setting and creating efficient building relationships with each other and the Center's other buildings.

Young women's dorm forms a striking profile in its wooded setting. Indoor, natural daylight from clerestory windows heightens the drama of two-story living area, posts and beams (top). The master plan places the dorms, educational and administrative buildings in visually coherent and functionally effective cluster. Cushion-strewn room for informal small groups resembles a ski lodge inglenook (right).
and a beautifully spare "long house"

Anyone who doubts there is beauty in simple things would do well to consider the merits of the Cedar Hills Activities Building in King County, Washington. This 2,000 square foot facility for recovering alcoholics was built, of necessity, for $78,000. Rising to the challenge, the Miller/Hull Partnership of Seattle created a strikingly spare space, much like an Indian long house, that can be shaped by easy partitioning to serve a myriad of activities. One day art classes may meet to produce art then displayed on the uninterrupted wall space. The next day the center may be divided for vocational training, meetings or recreational doings.

Structurally, simplicity paid off: as few materials as possible were used, and the exposed wood trusses and translucent roof sections lend a light and airy feeling. So, too, does the system of posts that lift the building off the ground to avoid site drainage problems. Says David Miller of Miller/Hull, "The design is an attempt to translate implicit into elegance."

Save for a restroom/office/storage area, the center's plan lets you manipulate all enclosed space at will; and the options are further enhanced by decks at either end. For visitors, the sensation of a building afloat is heightened by the need to cross an entrance bridge (top). Exposed structure of the gable ends provide a delightful ribbed umbrella beneath which the occupants may view the lush Northwest setting.
A Place to Recuperate

By Paul Fussell

A while ago my wife and I were touring Israel. One morning in Jerusalem I woke with an inexplicable insistent pain in my side: I felt as if during the night someone had kicked me in the ribs very hard. But the pain wasn’t bad enough to interfere with our touring schedule for the day, which included an overnight bus trip to the northern part of the country, including the Sea of Galilee and the Golan Heights, and a stay at a kibbutz which runs a motel and restaurant. At dinner that night my pain worsened, and now I found it hard to breathe. I assumed that somehow I’d broken a rib or pulled a muscle, but the treatment would take two weeks. An alternative explanation was that my years of wine-bibbing had finally paid off in a monstrously swollen liver which was now obtruding anomalously up into my rib cage. I couldn’t see the kibbutz physician because he was on vacation. The solution to my problem, it was indicated, was to be examined at a hospital some thirty miles away. A taxi took us there—by this time I was groaning and thrashing about in the back seat—and within an hour I was scrutinized, thumped, X-rayed, and, encased in blue pajamas made of some canvas-like material, installed in a bed in a ward. I hurt like hell. For no reason at all, I had achieved a severe case of pleurisy. I would recover, I was told, but the treatment would take two weeks. And after that, I was warned, for an additional week I would have to convalesce somewhere.

Somewhere. "Where do you want to go?" my wife asked when I was ready to leave the hospital. Where indeed did we want to spend a week?

The world was all before them, where to choose. Their place of rest, and Providence their guide.

I could have said I wanted to go to Baden-Baden, or a Greek island or Juan-les-Pins, or even Oaxaca or Tahiti. Then I realized where I wanted to go.

I wanted to go to a certain small European provincial city on a large lake. The population is about eighty thousand. A Romance language is spoken there, and the prevailing religion is Roman Catholic in a serious but never solemn way—lots of processions and frequent public blessing of objects like fishing boats and municipal vehicles. Everyone greets the priests in the streets, and the priests (who wear soutanes and birettes and never smoke cigarettes in public) smile back. Almost every week there is a fête celebrating some saint’s day. This begins at dawn with a great echoing explosion from the eighteenth-century cannon on the lake-front, proceeds through a day of municipal sports programs accompanied by many drinks, and ends with fireworks over the lake at night, with tired children, unwillingness of friends to part, and universal satisfaction that the day has been spent so well. On this day the police all wear white gloves, and as you walk home you smell tobacco, wine, coffee, and flowers.

Events like that take place near the town center, laid out as an oval sloping slightly uphill one and a half kilometers, from the hotel at the bottom, on the lake, to the municipal building at the top. The architecture here actually dates from the last third of the nineteenth century, but the style is either Palladian or Romanesque or Baroque. A gently curving main street encloses the central grassed area containing a large fountain, never out of order and lighted at night; statues on pedestals, some classical nudes, some fully dressed local worthies of the last century like doctors, composers, and minor authors; curving walks with green slatted wood benches where the elderly rest and admire the beds of red flowers against the grass; and, in the center, a covered bandstand with a wrought-iron railing around it featuring lyres. Around the bandstand are hundreds of quite comfortable folding chairs, and from it twice weekly (Wednesday evenings, Sunday afternoons) issues three hours of band music like Poet and Peasant Overture, "Waltz" from The Merry Widow, and the "Anvil Chorus" from Il Trovatore, with real anvils sending up real sparks when struck with hammers by members of the percussion section. The band, supported by the city, has mastered the complete oeuvres of Romberg and Sousa and Strauss, with the result that if you stay a week you never hear the same "selection" played twice.

On the main street around this oval-shaped central park there is no building taller than three stories, and the ground floors are occupied by shops, restaurants of all categories, and cafes. The shops sell no cameras or electronic equipment, and of course they sell no would-be comic T-shirts, no coca-cane or dildos. They sell good-looking clothes and luggage and fine small leather goods, chess sets and interesting playing-cards and dice beautifully machined, antique jewelry and chrome-plated corkscrews that work, snuffboxes and good sandals and surprising things made of marzipan, like little pork chops and slices of salami. There are many bookshops carrying works in the local language as well as stationery and school texts. But there’s one shop which stocks all the Penguins and Pelicans, and in addition has all the volumes of Everyman’s Library, the Modern Library, and the World’s Classics as they existed in 1949.

Each restaurant, whether modest or grand, posts a menu outside, and it is lighted at night. Because the provision of public music is regarded by the municipality as one of its prerogatives and a public trust, mere street musicians are prohibited, and the playing of music inside restaurants, whether by the living or by record or tape, violates a city ordinance which is rigorously enforced. Although this place is neither in northern Italy nor anywhere in France, the food is a combination of northern Italian and French. You can have prosciutto e melone and fetuccine al burro, and you can also have truffes en crouite, poulet d'estragon, or trout from the lake, and finish with a souffle.

The waiter, who would rather die than say something like ‘Good evening. I am your waiter. My name is Dimitri,’ leaves the wine in a bucket by your table, assuming that you will want to pour it yourself. After dinner you stroll out to a cafe, where you have coffee and cognac and perhaps a little pastry or ice cream and watch the young people go by, some slowly in cars, some on foot but all very attractive and all, boys and girls alike, wearing tight white trousers. They seem very happy. If cafe musicians are prohibited, lottery-ticket sellers, shoe-shine boys, and itinerant peanut vendors are allowed, but they are a very nice type who smile and go away immediately when you shake your head ever so slightly.

It is at the cafe especially that you do well to master the local currency and coinage. You get four of the mon-
Hotel on the lake. The citizens are proud of it, and they like the people who come there. This is where I'm going to get my strength back. Architecturally the hotel resembles a large British country house dating from the early part of the nineteenth century. Outside, stucco and stone, roofed patios with Palladian bl"
HEALTH CARE as BIG BUSINESS

The age of pervasive medical marketing has arrived. Goodbye hometown hospitals and nursing homes. Hello huge health care complexes selling as “uniform and reliable a product as McDonald’s hamburgers coast to coast.” Here, from a major new work, AM presents a distinguished sociologist’s somewhat disquieting summary of “the growth of corporate medicine.”

By Paul Starr

Medical care in America now appears to be in the early stages of a major transformation in its institutional structure, comparable to the rise of professional sovereignty at the opening of the twentieth century. Corporations have begun to integrate a hitherto decentralized hospital system, enter a variety of other health care businesses, and consolidate ownership and control in what may eventually become an industry dominated by huge health care conglomerates.

This transformation—so extraordinary in view of medicine’s past, yet so similar to changes in other industries—has been in the making, ironically enough, since the passage of Medicare and Medicaid. By making health care lucrative for providers, public financing made it exceedingly attractive to investors and set in motion the formation of large-scale corporate enterprises. Nursing homes and hospitals had a long history of proprietary ownership, but almost entirely as small, individually owned and operated enterprises. One of the first developments in the corporate transformation was the purchase of these facilities by new corporate chains. This, in a sense, was the first beachhead of for-profit corporations in the delivery of medical care.

Paradoxically, the efforts to control expenditures for health services also stimulated corporate development. The conservative appropriation of liberal reform in the early seventies opened up health maintenance organizations (HMOs) as a field for business investment. And in ways entirely unexpected, the regulation of hospitals and other efforts to contain costs set off a wave of acquisitions, mergers, and diversification in the nonprofit as well as profit-making sectors of the medical care industry. Pressure for efficient, business-like management of health care has also contributed to the collapse of the barriers that traditionally prevented corporate control of health services.

These are the outlines of a process that has now gone considerably beyond what observers have described, at least since the early 1970s, as the rise of a “medical-industrial complex.” In its original sense, the medical-industrial complex referred to the linkages between the doctors, hospitals, and medical schools and the health insurance companies, drug manufacturers, medical equipment suppliers, and other profit-making firms. Their interests seemed so closely interlocked that they constituted a single system, a seamless web of influence, a common front for a particular style, structure, and distribution of medical care.

This early usage emphasized the hidden connections between industry and a medical system that was still made up almost entirely of independent practitioners and local, nonprofit institutions. As of the early seventies, profit-making hospital and nursing home chains were visibly on the rise but still marginal to the health care system as a whole.

Ten years later, this is no longer the case. Large health care corporations are becoming a central element in the system. Arnold S. Relman, editor of The New England Journal of Medicine, alerted his readers in 1980 that the rise of a “new medical-industrial complex” was the “most important health-care development of the day.” Relman wanted to distinguish the growing businesses that sell health services to patients for a profit, such as chain hospitals, walk-in clinics, dialysis centers, and home care companies, from the “old” complex of firms that sell drugs, equipment, and insurance.

But the change goes beyond the increased penetration of profit-making firms directly into medical services. By the growth of corporate medicine, I refer also to changes in the organization and behavior of nonprofit hospitals and a general movement throughout the health care industry toward higher levels of integrated control. Five
After their emergence in 1968, the profit-making hospital chains grew faster in the 1970s than the computer industry. In 1970 the largest for-profit chain controlled 23 hospitals; by 1981 the same company, Hospital Corporation of America, owned or managed more than three hundred hospitals with 43,000 beds. In 1981 the profit-making chains owned or managed hospitals with 121,741 beds, up 68 percent over the total of 72,282 beds they had held five years earlier.

Not all of these beds were in the United States. Several of the chains have become multinational corporations. American Medical International owns or manages facilities in England, Spain, Switzerland, Singapore, France, and Venezuela as well as the United States. In 1979 Hospital Corporation of America purchased a prepaid health plan in Brazil with five hospitals, 42 clinics, 780 doctors, and an enrollment of over a half million people.

In the United States, the chain hospitals are concentrated in the South and Southwest in such states as Florida, Texas, and California. The hospitals are typically medium in size, ranging from 100 to 200 beds, and do not have residency programs.

One of the largest chains, Humana, Inc., exemplifies the rise of the hospital corporations. Humana started out in Louisville in 1968 with a few nursing homes and $4.8 million in revenues. Shifting to the more lucrative acute-care business, the company cashed in on its nursing homes and began buying and building hospitals. According to its president, the firm wanted to provide as uniform and reliable a product as a McDonald’s hamburger coast to coast. By 1980 it had 92 hospitals and $1.4 billion in revenues; an original share, which cost $8 in 1968, was now worth $530. The rise of the for-profit chains has, for the first time, introduced managerial capitalism into American medicine on a large scale.

Multihospital systems vary in the degree of centralization across a spectrum that ranges from fairly loose affiliations to tight management by corporate headquarters. Strong central management is the pattern among the for-profit chains. The majority of for-profit companies report that the power to set hospital budgets, plan capital investments, appoint chief hospital administrators, and make other key decisions rests with management at corporate headquarters. The profit-making chains have also adopted standardized management procedures, standardized accounting and other uniform practices. These tendencies are, as a rule, less advanced in the nonprofit systems.

There are two distinct aspects to patterns of control: Decisions may be local or centralized; and, if centralized, they may rest with a corporate board or corporate managers. One survey reports that local board responsibility for budgets and other key matters is the modal pattern only in the religious (mainly Catholic) multihospital systems. Among the secular nonprofits, such decisions more commonly rest with corporate boards, but in the for-profit chains, power usually lies with corporate management. The limited role of the boards of for-profit hospital companies suggests that, like most other large corporations, they are controlled by their inside directors.

The greater power of corporate management may reflect how the hospital chains were built. Another reason for greater centralization and standardized management may be size. The average number of hospitals in investor-owned chains in 1980 was 23.5, compared to an average of between 6 and 7 hospitals in nonprofit systems.

However, the differences in size and management may be diminishing. In the late seventies, some nonprofit systems adopted a more aggressively expansionist strategy and began bidding against the for-profits for new acquisitions. In 1979 Fairview Community Hospitals, a nonprofit system founded in 1973 and based in Minneapolis, bought a for-profit chain, A. E. Brim of Portland, Oregon. The purchase gave Fairview a total of 41 hospitals with 2,165 beds. (Fairview now owns or manages over 50 health-care facilities. ed.) As of 1979, the largest nonprofit was Sisters of Mercy Health Corporation (founded in 1976), with 23 hospitals and 5,584 beds.

Ownership and control are much more highly concentrated in the for-profit sector. By 1981, after several large mergers, nearly three quarters of the beds in for-profit multihospital systems were operated by the top three companies (Hospital Corporation of America, Humana, and American Medical International). On the other hand, the top three nonprofits (Kaiser Foundation Hospitals, Sisters of Mercy Health Corporation, and Sisters of Charity of Houston) operated less than a tenth of the beds in nonprofit systems.

The for-profits and nonprofits also differ in their patterns of development. While the leading profit-making chains are national, the nonprofits typically operate in a single region or corporate state. The for-profits show a stronger tendency toward "horizontal" growth through the hospital industry; the nonprofits, toward "vertical" growth through different levels of care in health services. While most of the for-profit chains have restricted themselves to acute care facilities, many of the nonprofits have built satellite clinics and operate nursing homes in their areas.

Industry experts anticipate rapid growth of multihospital systems, especially the for-profits. Some are predicting that the for-profit chains will double in size in the eighties while the
The 1970s and 1980s have brought harsher times for many public and nonprofit hospitals. The tilt of postwar policy toward the hospital has become more commercial, with an increasing interest in diversification as a way to generate new revenues and expand operations. The rise of health care corporations, plus an increase in the number of doctors, may vastly change medical practice.

The ambitions of hospital administrators now go considerably beyond the traditional hospital functions. In Kansas City, Missouri, the 600-bed, nonprofit Research Medical Center operates a profit-making subsidiary, Health Services Management, Inc., which sells cardiac rehabilitation, sports medicine, and laboratory services. In Berkeley, California, the nonprofit Alta Bates Hospital created a holding company to operate the hospital, another hospital it had acquired, a management services firm, a foundation, a group of nursing home and retirement centers, and Alta Bates Ambulatory Health Services, Inc., which operates a dialysis center, home care services, a pathology institute, a hospice, and a sports medicine unit.

The rise of health care corporations, plus an increase in the number of doctors, may vastly change medical practice.
The extension of the voluntary hospital into profit-making businesses and the penetration of other corporations into the hospital signal the breakdown of the traditional boundaries of voluntarism. Increasingly, the for-profit hospital chains are extending their interests into areas that have traditionally been the domain of nonprofit hospitals. The corporate control of hospitals is likely to become more common in the future.

Corporate activity in other medical services has been considerable. About 77 percent of the nursing homes in the United States are proprietary, and an increasing proportion are being bought up by large corporate chains. The nursing home chains are also going into the "life care" business, constructing retirement apartments next to nursing homes. Other companies provide home care, which involves home-making assistance, physical therapy, and nursing and medical services. Compared to nursing homes, which generated about $1.9 billion in revenues in 1980, home care is still a small business, worth perhaps $5 billion, with about a half billion dollars going to ten large companies in 1980.

There are also dozens of other related health care businesses, such as dental care, optical services, weight control, rehabilitation, CAT scanning, and various kinds of laboratory services. Emergicenters—also called minor emergency centers, convenience clinics, or walk-in clinics—are typical and perhaps the most important. Often located in shopping centers, they provide immediate treatment for any medical problem, generally without an appointment. The owner of two emergicenters in Massachusetts calls them "the fast-food concept applied to medicine."

Such centers increased in number from about fifty to over 200 nationwide between 1978 and 1981. In several states, chains operate clinics often in partnership with physicians; one company has begun to create a national franchise. A vice president of Merrill Lynch gushes that emergicenters "can attract as much as 25 percent of the approximately $45 billion that American insurance companies spend on physician and hospital outpatient services last year. That's more than $10 billion—bigger than the fast-food industry. And with centralized management and economies of scale, they can prove highly attractive to entrepreneurial capital."

Large, multi-unit corporations are also gaining a major position in the organization of HMOs. At the beginning of the 1970s, the prepayment plans, except for Kaiser, were locally controlled. None were profit-making companies. By 1980 the majority of HMOs were being drawn into several large networks run by Kaiser, Blue Cross, INA, and Prudential. Without extensive government aid for start-up capital, the consumer-run, cooperative organizations are certain to decline, and the surviving HMOs will increasingly become part of large corporate networks.

Of the many kinds of organization that now exist (or might appear) in medical care, which are likely to prevail in the future? What are the effects of what are likely to have on the medical profession and the society?

The array of organizational forms in medicine is now extraordinarily complex. There is tremendous ferment and variety through the United States. The traditional private practitioner, freestanding voluntary hospital, and indemnity or service-benefit health insurance plan continue to be the norm, but they are losing their former dominance. In the future, more doctors will be in group practice; more hospitals will be in multihospital systems; and more insurance companies will be directly involved in providing medical care through HMOs.

The traditional boundaries among these three sectors are being challenged: Doctors are integrating "backward" into institutional services; hospitals are integrating "forward" into ambulatory care; insurance companies are adopting new arrangements with "preferred providers" to create hybrid prepayment plans. No one today could safely predict the outcome of these developments.

However, most observers would agree that the movement toward integrated control will continue. Starkweather suggests that the roughly 5,000 different corporations responsible for the nation's hospitals will be reduced to about 2,000 by 1990. Another analyst suggests that by the year 2000, health care conglomerates, each with revenues of over $500 million a year, will account for about a fifth of all spending on hospitals and nursing homes. These are relatively modest projections. A radical Reaganite program could accelerate the movement. Before being appointed director of the Office of Management and Budget, David Stock-
man declared that "under the kind of system that I'm talking about ... I think most hospitals will become parts of for-profit marketing operations or they will become for-profit on their own.

The long-run question is—which form of integration will predominate? Several major types have now appeared: (1) the academic medical "empire," with its extended network of affiliation agreements; (2) the regional, nonprofit multihospital system; (3) the national, for-profit hospital chains; (4) the HMOs, the first independent and in chains; and (5) the diversified health care "conglomerate" with different lines of business in health care, but not offering comprehensive services to a defined population as in an HMO.

These different forms of corporate health care will be engaged in both economic and political competition with one another. If the financing system for medical care rewarded economic performance, both the academic medical empires and the for-profit chains would be handicapped by their higher costs. But this is not necessarily a fatal disadvantage as long as the reimbursement system permits higher-cost institutions to receive additional funds. The for-profit chains' higher markups on ancillary services, along with their superior access to private capital, actually provide them with funds for expansion. The academic medical centers are in more serious difficulties because of their higher costs, but they may be able to persuade government, perhaps after a few threatened bankruptcies, to accept more of the burden of financing medical education.

As I've already indicated, there is no evidence for significant savings from for-profit over nonprofit organizations and little evidence for savings from multihospital systems over freestanding institutions. Horizontal integration has more advantages for the organizations than for the society. Similarly, corporate restructuring—the emergence of the poly-corporate enterprise—has as its main motive the maximization of reimbursement. These are primarily adaptations to an incentive system that continues to be skewed; there is no reason to expect that they will meet the demands of the government or employers for containment of medical costs.

On the other hand, vertical integration—comprehensive care—has the potential to yield significant savings of money and improvements in effectiveness. There is clear and convincing evidence for substantial savings from HMOs; the main reason is the reduction in expensive hospital care—hardly surprising in view of the effects on the rest of the health care system of the long-standing tilt toward hospitals in government policy, private insurance, and relative prices paid physicians for hospital and office services.

Many observers, more confident of the rationality of the medical system than I am, foresee a shift from horizontal to vertical integration. In this view, the regional, nonprofit multihospital systems will be precursors to comprehensive health care plans, and even the for-profit hospital chains will eventually turn toward HMOs.

There is precedent for this view. In his history of the rise of corporate management, Alfred Chandler notes that there were two paths to the modern corporation in America. One was to expand by merger. This was basically a strategy of horizontal integration, aimed at increasing profits by controlling price and output. The other was to combine a system of mass marketing with mass production; this was a strategy of vertical integration aimed at raising profits by cutting costs. In the long run, the first strategy could not succeed alone. "The firms that first grew large by taking the merger route remained profitable only if after consolidating they then adopted a strategy of vertical integration," writes Chandler.

The emergence of corporate enterprise in health services is part of two broad currents in the political economy of contemporary societies. The older of these two movements is the steady expansion of the corporation into sectors of the economy traditionally occupied by self-employed small businessmen or family enterprises. In this respect, the growth of corporate medical care is similar to the growth of corporate agriculture. The second and more recent movement is the transfer of public services to the administrative control or ownership of private corporations—the reprivatization of the public household.

As I've already indicated, liberal and conservative policies, in opposite ways, have both promoted corporate health care. Medicare and Medicaid stimulated the huge growth in proprietary nursing homes and hospitals and later the rise of dialysis clinics, home care businesses, and emergicenters. Cutbacks in financing have encouraged the same developments. This shift was not inevitable. The legal rule against the corporate practice of medicine might conceivably have been steadfastly enforced by the courts. The early liberal programs might have emphasized neighborhood health centers instead of Medicaid and more generally have fostered public facilities instead of public financing for private health care. The great irony is that the opposition of the doctors and hospitals to public control of public programs set in motion entrepreneurial forces that may end up depriving both private doctors and local volunteers of hospitals of their traditional autonomy.

The medical profession was long able to resist corporate competition and corporate control by virtue of its collective organization, authority, and strategic position in mediating the relation of patients to hospitals, pharmaceutical companies, and use of third-party payment. Today, physicians still hold authority and strategic position, but these have eroded. Specialization has diminished the scope of relations between doctors and patients. Although patients who have established satisfactory relationships with private physicians have been less likely to enroll in HMOs, HMOs have been developing more rapidly than before partly because ties between doctors and patients are so much weaker. (The rise in malpractice suits against private physicians has the same cause.) Employers and the government have become critical intermediaries in the system because of their financial role, and they are using their power to reorient the system.

In addition, the profession is no longer steadfastly opposed to the growth of corporate medicine. Physicians' commitment to solo practice has been eroding; younger medical school graduates express a preference for practicing in groups. The longer period of residency training may cultivate more group-oriented attitudes. Young doctors may be more interested in freedom from the job than freedom to the job, and organizations that provide more regular hours can screen out the invasions of private life that come with independent professional practice.

Nonetheless, compared with individual practice, corporate work will necessarily entail a profound loss of autonomy. Doctors will no longer have as much control over such basic issues as when they retire. There will be more regulation of the pace and routines of work. And the corporation is likely to require some standard of performance, whether measured in revenues generated or patients treated per hour. To stimulate admissions, Humana offers physicians office space at a discount in buildings next to its hospital and even guarantees first-year incomes of $60,000. It then keeps track of the revenues each doctor generates. They let you know if you're not keeping up to expectations," says one young phy...
The rise of a corporate ethos in medical care is already one of the most significant consequences of the changing structure of medical care. It permeates voluntary hospitals, government agencies, and academic thought as well as profit-making medical care organizations. Those who talked about "health care planning" in the 1970s now talk about "health care marketing." Everywhere one sees the growth of a kind of marketing mentality in health care. And, indeed, business school graduates are displacing graduates of public health schools, hospital administrators, and even doctors in the top echelons of medical care organizations. The organizational culture of medicine used to be dominated by the ideals of professionalism and voluntarism, which softened the underlying acquisitive activity. The restraint exercised by those deals now grows weaker. The "health center" of one era is the "profit center" of the next.

No less important than its effect on the culture of medical care institutions is the likely political impact of the growth of corporate enterprise. As an interest group, the new health care conglomerates will obviously be a powerful force. The profit-making hospitals clearly benefit from the structure of private health insurance and can be counted on to oppose any national health program that might threaten to end private reimbursement. The corporate health services industry will also represent a powerful new force resisting public accountability and participation.

A corporate sector in health care is also likely to aggravate inequalities in access to health care. Profit-making enterprises are not interested in treating those who cannot pay. The voluntary hospital may not treat the poor the same as the rich, but they do treat them and often treat them well. A system in which corporate enterprises play a larger part is likely to be more segmented and more stratified. With cutbacks in public financing coming at the same time, the two-class system in medical care is likely to become only more conspicuous.

This turn of events is the fruit of a history of accommodating professional and institutional interests, failing to exercise public control over public programs, then adopting piece-meal regulation to control the inflationary consequences, and, as a final resort, cutting back programs and turning them back to the private sector. The failure to rationalize medical services under public control meant that sooner or later they would be rationalized under private control. Instead of public regulation, there will be private regulation, and instead of public planning, there will be corporate planning. Instead of public financing for prepaid plans that might be managed by the subscribers' chosen representatives, there will be corporate financing for private plans controlled by conglomerates whose interests will be determined by the rate of return on investments. That is the future toward which American medicine now seems to be headed.

But a trend is not necessarily fate. Images of the future are usually only caricatures of the present. Perhaps this picture of the future of medical care will also prove to be a caricature. Whether it does depends on choices that Americans have still to make.

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To stop for a burger and malt at the Ediner is to find yourself back in the days when juke boxes blared in every restaurant and roadside beaneries were as ubiquitous as Burma Shave signs. This clever restaurant is all-new and located, not at roadside, but in a high-fashion shopping mall in Edina, Minnesota. But its proprietors Jack and Susan Seltz have made sure that the recall of customers old enough to have patronized a 1950s diner is total. They and their designers—Bob Kalbac of Kalbac & Associates and architect Walter Johanson of BRW Architects—have paid scrupulous attention to such nostalgic details as a stainless steel soda fountain counter with pies under glass, stacked sundae dishes, vintage paper napkin holders, old-time mugs, cafeteria-style silverware, and mimeographed daily menus slipped inside clear acetate holders. The net of it all is convincingly *deja vu*.

—Bruce N. Wright
The Ediner's designers went the extra research mile to realize a studiedly comic authenticity. Working closely with the owners and drawing on reference books on American diners, Kalbac and Johnson devised a plan (right) that typified the classic beanery: two separate eating areas resembling railroad dining cars are placed parallel, with a classic counter and pedestal-stooled section between them. The kitchen (never a feature in vintage diners) is fitted neatly behind the truncated eating area, where it serves both areas efficiently without violating the Ediner's theatricality. The entrance looks pre-WWII authentic (not easy in a shopping mall), thanks to its signage, glass brick and pleated stainless steel face panel. Inside, the creamy pea green color and chrome detailing reinforce nostalgia; and the lighting, done by Guthrie Theater lighting designer Duane Schuler, heightens the drama.
WHEN IT COMES TO GOOD DESIGN, WE MEAN BUSINESS.

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Firm Directory

It is with great pleasure that I invite you to turn to the following pages and acquaint yourself with my esteemed colleagues—Minnesota's architects. I know most of them personally. I respect them professionally. Should you require an architect's services—either to design a new building, remodel an existing one, or restore an old structure for a new life—any one of the firms listed in this Directory will be delighted to help you.

Elizabeth Close, President
Minnesota Society
American Institute of Architects

Legend

AHA American Hospital Association
AHP American Hospital Planners
AIA American Institute of Architects
AICP American Institute of Certified Planners
ASID American Society of Interior Designers
ASLA American Society of Landscape Architects
CSI Construction Specifiers Institute
FAIA Fellow of the AIA
IBD Institute of Business Designers
IES Illuminating Engineers Society
PE Professional Engineer
RAIC Royal Architectural Institute of Canada
ACKERBERG AND ASSOCIATES, INC.
2622 West Lake Street, Suite 210
Minneapolis, MN 55416
612/920-9020
Established 1955
S. M. Ackerberg
D. P. Watschke

Firm Personnel by Discipline
Architectural
Other Technical
Administrative
Total in Firm

Work %
Housing
Office Bldg./Banks
Retail/Commercial
Industrial
Medical
Restoration/Renovation
Municipal Bldgs.
Interior Architecture

THE ADKINS ASSOCIATION, INC.
901 Jefferson Avenue
St. Paul, MN 55102
612/224-1338
111 11th Ave. South
Minneapolis, MN 55415
612/332-9176

Established 1958
Robert Morgan
Robert Jackels
Gene Peterson
Roger Sjobeck

Firm Personnel by Discipline
Architectural
Planners
Administrative
Total in Firm

Work %
Housing
Office Bldg./Banks
Retail/Commercial
Industrial
Medical
Churches
Education Bldgs.
Other (Planning)

ANDERSON DALE ARCHITECTS, INC.
2675 University Avenue
St. Paul, Minnesota 55114
612/642-4650
Established 1982
Wm. E. Anderson
Kurtis A. Dale
Ted Davis

Firm Personnel by Discipline
Architectural
Interior
Total in Firm

Work %
Corporate
Interior Architecture
Hotels
Laboratory/Technical
Broadcasting Facilities

ARCHITECTS IN CHARRETTE
2115 Kenwood Parkway
Minneapolis, MN 55403
612/374-4061

Established 1982
Dawn Varda

Firm Personnel by Discipline
Architectural
Total in Firm

Work %
Housing
Office Bldgs./Banks

ARCHITECTS IV— FUGELSO, PORTER, SIMICH & WHITMAN, INC.
1226 East 1st Street
Duluth, MN 55805
218/728-5124
Established 1935
Sanford Porter
Leon Simich
Richard Whiteman
Jack Jyring

Firm Personnel by Discipline
Architectural
Other Technical
Administrative
Total in Firm

Work %
Housing
Office Bldgs./Banks
Retail
Industrial
Medical
Churches
Restoration
Municipal
Interior
Solar/Earth Sheltered
Education

THE ADAMS GROUP, INC.
118 East 26th Street
Minneapolis, MN 55404
612/872-8506
Established 1971
C. Culver Adams

Firm Personnel by Discipline
Architectural
Administrative
Total in Firm

Work %
Housing
Office Bldgs./Banks
Retail/Commercial
Industrial
Restoration/Renovation
Interior Architecture
Solar/Earth Sheltered

ANKENY, KELL AND ASSOCIATES, ARCHITECTS
821 Raymond Avenue, Suite 400
St. Paul, MN 55114
612/645-6806
Established 1976
Ronald W. Ankeny
Duane A. Kell

Firm Personnel by Discipline
Architectural
Administrative
Total in Firm

Work %
Housing
Office Bldgs.
Retail/Commercial
Restoration/Preservation

ARCHITECTS EN CHARRETTE
"La Pasta", St. Anthony Main
Minneapolis, MN; 2309-15 Irving Avenue So., Apartment Renovation, 2606 Humboldt Avenue So., Apartment Renovation, "The Winsor" Apartment Renovation, Minneapolis, MN.

ALPHA ARCHITECTS, INC.
3585 N. Lexington Avenue
Arden Hills, MN 55112
612/483-3131
Established 1980
Gunnar F. Unger, Jr.
Robert G. Joslin

Firm Personnel by Discipline
Architectural
Administration
Total in Firm

Work %
Housing
Retail/Commercial
Medical
Churches
Solar/Earth Sheltered

BAKER COURT, St. Paul, MN; Duluth Temporary Help Building, Minneapolis, MN; Riverside Mall, Rochester, MN; Victoria St. Paul, MN; Cross Town Bank, Ham Lake, MN; Northwestern Electronics Institute, Mpls., MN.

ANCIENT, KELL AND ASSOCIATES, ARCHITECTS
2675 University Avenue
St. Paul, Minnesota 55114
612/642-4650
Established 1982
Wm. E. Anderson
Kurtis A. Dale
Ted Davis

Firm Personnel by Discipline
Architectural
Interior
Total in Firm

Work %
Corporate
Interior Architecture
Hotels
Laboratory/Technical
Broadcasting Facilities

ANCIENT, KELL AND ASSOCIATES, ARCHITECTS
1226 East 1st Street
Duluth, MN 55805
218/728-5124
Established 1935
Sanford Porter
Leon Simich
Richard Whiteman
Jack Jyring

Firm Personnel by Discipline
Architectural
Other Technical
Administrative
Total in Firm

Work %
Housing
Office Bldgs./Banks
Retail
Industrial
Medical
Churches
Restoration
Municipal
Interior
Solar/Earth Sheltered
Education

Baker Court, St. Paul, MN; Duluth Temporary Help Building, Minneapolis, MN; Riverside Mall, Rochester, MN; Victoria St. Paul, MN; Cross Town Bank, Ham Lake, MN; Northwestern Electronics Institute, Mpls., MN.

ANKENY, KELL AND ASSOCIATES, ARCHITECTS
821 Raymond Avenue, Suite 400
St. Paul, MN 55114
612/645-6806
Established 1976
Ronald W. Ankeny
Duane A. Kell

Firm Personnel by Discipline
Architectural
Administrative
Total in Firm

Work %
Housing
Office Bldgs.
Retail/Commercial
Restoration/Preservation

Baker Court, St. Paul, MN; Duluth Temporary Help Building, Minneapolis, MN; Riverside Mall, Rochester, MN; Victoria St. Paul, MN; Cross Town Bank, Ham Lake, MN; Northwestern Electronics Institute, Mpls., MN.
ARCHITECTURAL ALLIANCE
400 Clifton Avenue South
Minneapolis, MN 55403
612/871-5703
Mpls./St. Paul Int’l Airport
St. Paul, MN 55111
612/726-9012
6225 North 24th St.
Phoenix, AZ 85016
602/951-6331
Established 1970

John W. Lackens
FAIA
Herbert A. Ketcham
FAIA
Richard D. Lemke
Carj. Remick
FAIA

Firm Personnel by Discipline
Architectural 2
Krchitectural 6
Firm Personnel by Discipline
Rochester, MN 55901

ARMSTRONG, TORSETH, SKOLD & RYDEEN, INC.
4901 Olson Memorial Hwy.
Minneapolis, MN 55422
612/545-3731
Established 1944

Kenneth L. Skold
AIA
John C. Torseth
AIA
James E. Rydeen
AIA
Kenneth E. Grabow
AIA
LeRoy H. Palmquist
AIA
Harold E. Shull
PE
Donald L. Yungner
PE

Firm Personnel by Discipline
Architectural 21
Engineering 7
Interior Designers 1
Other Technical 2
Administrative 5
Total in Firm 41

Work %

Office Buildings
Industrial
Educational
Interior Design
Solar/Earth Sheltered
Municipal Buildings
Churches

Wirth Office Park, Golden Valley,
MN; CPT Headquarters,
Eden Prairie, MN;
Lutheran Church, Golden Valley,
MN; Canteen Bldg., VA;
Chapel View Congregate Housing,
Hopkins, MN; Worthington
Junior High School, MN.

ARCHITECTURAL RESOURCES, INC.
704 East Howard Street
Hibbing, MN 55744
218/263-6868
Established 1972

E. A. Jyring
FAIA
W. H. Moser
AIA
Roger Saccoman
AIA
Parnell Sattre
PE
Lyle Peters
AIA
Kent Worley
ASLA

Firm Personnel by Discipline
Architectural 13
Engineering 5
Landscape 3
Planners 1
Administrative 2
Total in Firm 26

Work %

Housing
Office Bldgs./Banks
Medical
Churches
Municipal
Education

Itasca County Family YMCA,
Grand Rapids, MN; Life Enrichment
for the Elderly Housing,
Hibbing, MN; UMD
Business and Economics Building,
Duluth, MN; Elks Lodge,
Hibbing, MN; Hospital and
Health Facility Housing, Red
Lake, MN; Iron Range Law
Enforcement Training Center,
Virginia, MN.

B

BAKER ASSOCIATES, INC.
301 Chamber of Commerce Bldg.
15 South 5th Street
Minneapolis, MN 55402
612/339-8601
Established 1959

Edward F. Baker
AIA
Brian R. Morgan
AIA
Marshall Levin
AIA

Firm Personnel by Discipline
Architectural 5
Administrative 3
Total in Firm 8

Work %

Housing
Office Buildings/Banks
Retail/Commercial

MEPC-Parkdale Plaza, St.
Louis Park, MN; Northland
Exec. Ofc. Center, Bloomington,
MN; Wayzata Bank & Trust,
Wayzata, MN; TCF-
Tower Addition, Minneapolis,
MN; Metro Place, Edina, MN;
Health Associations Center,
Minneapolis, MN.

DENNIS BATTY & ASSOCIATES, INC., ARCHITECTS
12800 Industrial Park
Minneapolis, MN 55441
612/559-0945
Established 1976

Dennis Batty
AIA

Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Work %

Housing
Office Bldgs./Banks
Industrial
Churches
Education

College Life Center, North Cen-
tral Bible College, Mpls., MN;
Scientific Computers Office
Bldg., Minnetonka, MN;
Bloomington Assembly of God
Church, Bloomington, MN;
First Assembly of God, Des
Moines, IA; Bethany Evangelical
Free Church, La Crosse, WI;
Christ’s Church, Minneapolis,
MN.

ASSOCIATED ARCHITECTS AND ENGINEERS
241 S. Cleveland
St. Paul, MN 55105
612/698-0808
Established 1958

James E. Speckmann
Charles D. Liddy, Jr.
Grant Peterson

Firm Personnel by Discipline
Architectural 5
Administrative 1
Total in Firm 6

Work %

Office Buildings
Industrial
Solar/Earth Sheltered
Housing
Restoration/Renovation
Medical/Health Care

St. Peter’s Church Restoration;
Napier-McNeil Store; III Impe-
rial Drive Condominium, West
St. Paul; Carpenter Nature Cen-
ter, Hastings, MN; PACAL
Steel Office Bldg., Roseville,
MN; Fairview Hospital Surgery
Renovations, Mpls., MN.

MAY/JUNE 1983 55
FREDERICK BENTZ/MILO THOMPSON/ROBERT RIETOW, INC.
1234 Dain Tower
Minneapolis, MN 55402
612/332-1234
Established 1971
Frederick Bentz FAIA
Milo H. Thompson AIA
Robert G. Rietow AIA
Firm Personnel by Discipline
Architectural 12
Interior Designer 1
Other Technical 1
Administrative 1
Total in Firm 15
Firm Personnel by Discipline
Robert G. Rietow AIA
Milo H. Thompson AIA
Frederick Bentz FAIA
Planning 2
Housing 10
Interior Architecture 8
Restoration/Preservation 10

ARCHITECTURE MINNESOTA

A. J. BERREAU AND ASSOCIATES, INC.
1220 Glenwood Ave.
Minneapolis, MN 55405
612/339-3752
Established 1970
Alfred J. Berreau AIA
Firm Personnel by Discipline
Total in Firm 6

Work %
Office Bldgs./Banks 30
Industrial 30
Restoration/Preservation 10
Municipal Buildings 5

Eastern Distribution & Spreads
Plant, Kent, OH; Kroger Cheese
Plant, Crawfordsville, IN; Land
O'Lakes Beef Plant, Oakland, IA.

BLUMENTALS/ARCHITECTURE INC.
6100 Summit Dr. N.
Brooklyn Center, MN 55430
612/331-5550
Established 1976
Janis Blumentals AIA
Susan Blumentals AIA
Firm Personnel by Discipline
Architectural 7
Administrative 1
Total in Firm 8

Work %
Housing 45
Office 10
Retail 5
Industrial 10
Restoration/Preservation 5
Solar/Earth Sheltered 10
Other—Motels 15

Larson Commons Elderly Housing, Cloquet, MN; Scowitz & Thrifty Scot Motels; HRA of Dakota County, Rosemount, MN; Solar Townhouses for HRA of Dakota County; McColl Building Renovation, St. Paul, MN; Public Housing for Elderly, New Ulm, MN.

RANDALL BRADLEY DESIGN
1229 N. Thomas Avenue
Minneapolis, MN 55411
612/329-0146
Established 1981
Randall Bradley AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Work %
Housing 30
Office 20
Retail 45
Interior Architecture 15
Education 10

The Kit Connection: Rosedale, Duluth, & Victoria Crossing; Saban Childerny Community Center Renovation; Adams Residence Renovation; KMOJ Radio Studio Facilities, Mpls., MN; Cosmic Clown Ice Cream Parlor, Mpls., MN.

BOARMAN ARCHITECTS, INC.
710 Chamber of Commerce Bldg.
15 South 5th Street
Minneapolis, MN 55402
612/339-3752
Established 1978
Jack Boorman AIA
Swend Anderson AIA
Jerome Undberg AIA
Mike McDonald AIA
Firm Personnel by Discipline
Architectural 9
Marketing Coordinator 1
Administrative 2
Total in Firm 12

Work %
Housing 30
Office Bldgs./Banks 20
Retail/Commercial 10
Restoration/Preservation 5
Municipal Buildings 30
Education 5

Dain Corporation/Stamn Building Renovation; National City Bank—Ridgedale and Southdale; Sheraton Ritz—Pyramid Pool/ Restaurant Addition; Chanhassen Municipal Center; Minnehaha Square Condominiums and Townhouses; Eagan Municipal Center.

BRW ARCHITECTS
A Studio of Bennett-Ringrose-Wolsfeld-Jarvis-Gardner, Inc.
2829 University Avenue SE
Minneapolis, MN 55414
Branches in Denver, CO, Cheyenne, WY, and Phoenix, AZ.

Robert D. Burow AIA
Established: 1977
Firm Personnel by Discipline
Architectural 25
Engineering 21
Landscape Architects 5
Planners 13
Other technical 42
Administrative 17
Total in Firm 125

Work %
Housing 25
Office Buildings 35
Retail 15
Industrial 5
Municipal Buildings 10
Solar/Earth Sheltered 10
Education/Academic Buildings 5

U.S.A.F. Academy Visitor Center, Colorado; Holaday Circuits Manufacturing, Minnetonka; The Galleria, Edina; Williamson Hall (University of Minnesota); Civil/Mineral Engineering, (University of Minnesota); Minnesota Tower/Park Tower Condominiums, St. Paul, MN.

BUETOW & ASSOCIATES, INC.
2345 Rice Street, Suite 210
St. Paul, MN 55113
612/483-6701
Established 1920
Thomas W. Dunwell AIA
Farrell F. Johnson
Firm Personnel by Discipline
Architectural 25
Other Technical 42
Other General 15
Total in Firm 10

Housing 5
Office Buildings 10
Retail 20
Industrial 20
Medical/Health Care 10
Churches/Worship 20
Municipal Buildings 15
Solar/Earth Sheltered 10

3M Research & Development Facility, Menomonie, WI; U of M Centennial Hall Cafeteria Remodeling, Mpls., MN; Jennie-O Turkey Plant, Willmar, MN; Bennigan's Restaurant, Bloomington, WI; Oliver Presbyterian Church, Mpls., MN; Blaine Public Works Bldg., MN.

ROBERT DAVID BUROW ARCHITECTS, INC.
750 South Plaza Drive
Mendota Heights, MN 55120
612/347-8505
Established: 1977
Robert D. Burow AIA
Firm Personnel by Discipline
Architectural 25
Interior Designers 8
Administrative 17
Total in Firm 44

Work %
Housing 10
Office Buildings 20
Retail 10
Industrial 10
Medical 10
Churches/Worship 20
Restoration/Preservation 10
Interior Architecture 5
Solar/Earth Sheltered 5
Other (Clean Rooms) 10

St. Jude Medical, Little Canada, MN; Cardiac Pacemakers, Inc., Arden Hills; 1st State Bank of Spring Lake Park; Central Telephone, Lakeville, MN; Redeemer Lutheran Church, Bloomville, MN; Cedarvale Lanes, Eagan, MN; Ellenberg Vacation Home, Lake Owen, WI.

56 ARCHITECTURE MINNESOTA
**CARLSON MJORUD ARCHITECTURE LTD.**

4915 West 35th Street
Minneapolis, MN 55416
612/922-6677

Bruce M. Carlson AIA
Al Mjorud AIA

Firm Personnel by Discipline
Architectural 18
Other technical 2
Administrative 6
Total in Firm 31

Firm Personnel by Discipline
Architectural 6
Other technical 3
Administrative 2
Total in Firm 11

Housing 5
Office Buildings/Banks 20
Retail 5
Industrial 20
Restoration/Preservation 10
Interior Architecture 20
Solar/Earth Sheltered 10


**Cavin and Rova/Architects**

432 Landmark Center
St. Paul, MN 55102
612/224-2311
Established 1946

Brooks Cavin FAIA
John P. Rova

Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Housing 15
Retail 10
Industrial 20
Medical/Health Care 5
Churches/Worship 20
Restoration/Preservation 30

Minneapolis Club Swimming Pool; Brown County Historical Museum; Trinity Lutheran Church Remodeling, Mpls., MN; Loading Dock, MN State Capitol, St. Paul, MN; W. L. Hall Co. Office & Warehouse, Eden Prairie, MN; Cathedral of Our Merciful Saviour, Fari- bault, MN.

**Close Associates, Inc.**

3101 East Franklin Avenue
Minneapolis, MN 55406
612/339-0979
Established 1939

Elizabeth S. Close FAIA
Winston A. Close FAIA
W. Garman Hargens AIA

Firm Personnel by Discipline
Architectural 3
Other technical 2
Administrative 1
Total in Firm 6

Housing 60
Retail 10
Restoration/Preservation 10
Municipal Buildings 20
Solar/Earth Sheltered 10

Superior Shores Lakehomes, Two Harbors; Wuori Community Center, Virginia, MN; Portland Square Housing Rehabilitation, Duluth; Eveleth/Fayal Trail, Eveleth, MN; Hermantown Maintenance Facility, MN; West Research Recreation Center, Duluth.

**Corwin Seppenen & Assoc. Inc.**

2694 East 19th Avenue
North St. Paul, MN 55109
612/777-2766
Established 1952

Ralph D. Corwin AIA
Jarl Seppenen AIA

Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Office Buildings 10
Education/Academic Buildings 90
East Bethel Community School, MN; St. Francis High School, MN.

**Cottle-Herman Architects, Inc.**

2344 Nicollet Avenue South.
Minneapolis, MN 55404
612/871-7200
Established 1967

Richard E. Cottle AIA
Bernard Herman AIA

Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

Housing 25
Retail Buildings 10
Office Buildings 40
Industrial 20

Snedold West Office Bldg. & Ramp, St. Louis Park; Ridge Square Center, Minnetonka, MN; Dupont Center Office Bldg., Bloomington, MN; Vornado Office/Warehouse, Plymouth, MN; Edenvale Apartments, Eden Prairie, MN; The Point Motel, Houston, TX.

**CO/PLAN, INC.**

17 East First Street
Duluth, MN 55802
218/727-2626
Established 1981

Darryl W. Booker AIA
John F. Scott

Firm Personnel by Discipline
Architectural 3
Interior Designers 1
Total in Firm 4

Housing 60
Retail 10
Restoration/Preservation 10
Municipal Buildings 20
Solar/Earth Sheltered 10

Nankin Cafe, Minneapolis City Center; Menorah Plaza, St. Louis Park, MN; Bethel College & Seminary Library, Arden Hills, MN; Crystal Medical Center, Crystal, MN; Zipkin Residence, St. Louis Park, MN; Snyder Residence, Edina, MN.
CUNIGHAM ARCHITECTS
2116 Second Avenue South
Minneapolis, MN 55404
612/874-6580
Established 1969
John W. Cuningham AIA
John E. Hamilton AIA
John E. Quiter AIA
Firm Personnel by Discipline
Total in Firm 5

CURISKIS ARCHITECTS
Minneapolis, MN 55435
(612) 927-9441
Established 1980
Juris Curiskis AIA
John E. Quiter AIA
John W. Cuningham AIA
Firm Personnel by Discipline
Total in Firm 5

DAMBERG & PECK ARCHITECTS, INC.
312 West Superior Street
Duluth, MN 55802
218/722-7467
3200 Lincoln Bldg.
Virginia, MN 55792
218/741-7962
Established 1968
John P. Damberg AIA
John D. Peck AIA
Firm Personnel by Discipline
Architectural 8
Interior Designer 1
Administrative 2
Total in Firm 11

DEAN/DAVY ARCHITECTS
P.O. Box 30222
St. Paul, MN 55175
612/227-9957
Established 1982
James R. Dean AIA
Joel Davy AIA
Firm Personnel by Discipline
Architectural 2
Total In Firm 2

DESIGNERY, ARCHITECTURE
P.O. Box 57
Minneapolis, MN 55401
612/920-3993
Established 1972
William C. Anderson AIA
Darrell D. Anderson AIA
Firm Personnel by Discipline
Architectural 8
Administrative 1
Total in Firm 9

DESIGN TWO INC.
684 Excelsior Blvd.
Excelsior, MN 55331
612/247-1291
Established 1971
J. Nicholas Ruehl AIA
Bertil E. Haglund AIA
Firm Personnel by Discipline
Architectural 3
Administrative 2
Total in Firm 5

THE DESIGN PARTNERSHIP, LTD
124 North First St.
Minneapolis, MN 55401
612/338-8889

CURTIS ARCHITECTS
4930 France Avenue South
Minneapolis, MN 55410
612/920-3991
Established 1962
Arthur H. Dickey AIA
Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 5

DYKINS ASSOCIATES, INC.
2950 Metro drive, Suite 307
Minneapolis, MN 55420
612/854-3361
Established 1975
Charles A. Dykins AIA
Firm Personnel by Discipline
Architectural 4
Total in Firm 4

Solar/Earth Sheltered 10
Education/Academic 25
Other 5

Mai Tai Restaurant; Minnetonka Senior High School Auditorium
Remodeling & Athletic Fields; Andrew Alexander Retail Store,
Edina, MN; Lynne Residence, Eden Prairie, MN; Pegasus
High Rise Condominiums, Fort Pierce, FL; Office Condomiunium
Complex, Minnetonka, MN.

ARTHUR DICKY ARCHITECTS INC.
7200 Park Center Drive
Minneapolis, MN 55420
612/980-9800
Established 1962
Arthur H. Dickey AIA
Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 5

Solar/Earth Sheltered 3
Other Technical 5

Southdale YMCA, Minneapolis, MN; Belzer and Brenner Office
Building, Minneapolis, MN; Visiting Nurses, Minneapolis, MN;
Minneapolis Fire Station #6, Minneapolis, MN; Franklin
Hill Condominiums, Minneapolis, MN; Bachman's Flower
Shop, Various Locations.

DYKINS ASSOCIATES, INC.
2950 Metro drive, Suite 307
Minneapolis, MN 55420
612/854-3361
Established 1975
Charles A. Dykins AIA
Firm Personnel by Discipline
Architectural 4
Total in Firm 4

Solar/Earth Sheltered 10
Education/Academic 25
Other 5

Mai Tai Restaurant; Minnetonka Senior High School Auditorium
Remodeling & Athletic Fields; Andrew Alexander Retail Store,
Edina, MN; Lynne Residence, Eden Prairie, MN; Pegasus
High Rise Condominiums, Fort Pierce, FL; Office Condoviunium
Complex, Minnetonka, MN.

ARTHUR DICKY ARCHITECTS INC.
4930 France Avenue South
Minneapolis, MN 55410
612/920-3991
Established 1962
Arthur H. Dickey AIA
Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 5

Solar/Earth Sheltered 3
Other Technical 5

Southdale YMCA, Minneapolis, MN; Belzer and Brenner Office
Building, Minneapolis, MN; Visiting Nurses, Minneapolis, MN;
Minneapolis Fire Station #6, Minneapolis, MN; Franklin
Hill Condominiums, Minneapolis, MN; Bachman's Flower
Shop, Various Locations.
### Eckberg Associates, Inc.

- **Established**: 1974
- **Total in Firm**: 2

<table>
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- **St. Paul Companies**, St. Paul, MN; Hartford Coliseum, Hartford, CT; Indiana University School of Public & Environmental Affairs, Bloomington, IN; Notre Dame Chemistry Building; Central High School, St. Paul, MN; Bethesda Naval Hospital, Bethesda, MD.

### Arvid Elness Architects

- **Established**: 1975
- **Total in Firm**: 2

<table>
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- **Christian Living Center**, Willmar, MN; Camp Sanderson Peacepipe Girl Scout Council, Spicer, MN; Grandstand Athletic Field, Montevideo, MN; Family Practice Medical Center, Willmar, MN; Jade Center, Willmar, MN; Grove City Community Center, Grove City, MN.

### Delano Erickson Architects

- **Established**: 1982
- **Total in Firm**: 3

<table>
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<td>Educational/Classroom</td>
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- **C.T.S. Center**, Richfield, MN; Solar Office Building, Edith Macy Conference Center, Briar Cliff Manor, New York; Nat'l. Girl Scout Training Center, Girl Scout Council of St. Croix Valley Program Center, St. Paul, MN.

### Richards Engan Architects

- **Established**: 1974
- **Total in Firm**: 2

<table>
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<td>Interior Architecture</td>
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<td>Education/Classroom</td>
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</table>

- **St. Paul Company**, St. Paul, MN; Hartford Coliseum, Hartford, CT; Indiana University School of Public & Environmental Affairs, Bloomington, IN; Notre Dame Chemistry Building; Central High School, St. Paul, MN; Bethesda Naval Hospital, Bethesda, MD.

### Stanley Fishman Associates, Inc.

- **Established**: 1965
- **Total in Firm**: 3

<table>
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</table>

- **Peace Pipe Girl Scout Council**, Spicer, MN; Grandstand Athletic Field, Montevideo, MN; Family Practice Medical Center, Willmar, MN; Jade Center, Willmar, MN; Grove City Community Center, Grove City, MN.

### Farnan Architects

- **Established**: 1982
- **Total in Firm**: 2

<table>
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</table>

- **HUD Earth Sheltered Residential Study**, St. Paul, MN; Earth Sheltered Residence, Chisago City, MN; Residences, Minneapolis & Roseville, MN.
ASSOCIATES, INC.

Orlen Foisted
Northfield, MN 55057

Total in Firm 3
Administrative 1
Established 1972
507/645-4407

Firm Personnel by Discipline

- Single Family Housing 10
- Multi Housing 75
- Office Restoration, Northfield, MN; Retirement
- Retirement Condominiums, MN; Other Technical
- WC Flails, MN; Single Family
- MN.

FOSS ASSOCIATES

218/236-1202
215 Main, Box 306
Moorhead, MN 56560
Established 1898

Mark B. Foss PE

Firm Personnel by Discipline

- Engineering 16
- Architectural 37
- Other Technical 2
- Administrative 4
- Total in Firm 68

FOWLER HANLEY INC.

1207 Harmon Place
Minneapolis, MN 55403
612/332-8728

Michael A. Fowler PE
Thomas J. Zumwald PE
Bruce K. Better PE
John T. Hanley PE

Firm Personnel by Discipline

- Architectural 1
- Engineering 6
- Administrative 2
- Total in Firm 11

GALLAGHER ARCHITECTS

3609 Gettysburg Avenue North
Minneapolis, MN 55427
612/542-8259

Daniel P. Gallagher AIA

Firm Personnel by Discipline

- Architectural 1
- Total in Firm 1

GALLAGHER RESIDENCE

Fowler Residence, Fergus Falls, MN; Gallager Residence, New Hope, MN.

H. W. FRIDLUND, ARCHITECTS

4301 Minnetonka Boulevard
Minneapolis, MN 55416
612/920-3080

H. W. Frildlund AIA
Milt Brulhoff AIA
Alan Kimpell AIA
Eileen Greenwood AIA

Firm Personnel by Discipline

- Architectural 4
- Administrative 2
- Total in Firm 6

GRISSWOLD AND RAUMA, ARCHITECTS

720 2nd Avenue South
Minneapolis, MN 55402
612/339-3071

David J. Griswold AIA
John G. Rauma AIA

Firm Personnel by Discipline

- Architectural 5
- Administrative 1
- Total in Firm 6

GREBNER ASSOCIATES

3033 Excelsior Blvd.
Minneapolis, MN 55416
612/926-7635
Established 1878

D. W. Grebner AIA

Firm Personnel by Discipline

- Architectural 1
- Total in Firm 1

GREEN, NELSON, WEAVER & WINDSOR INC.

3609 Gettysburg Avenue North
Minneapolis, MN 55427
612/542-8259

Established: 1981

Gene L. Green AIA
Arthur E. Nelson AIA
John K. Weaver AIA
Mark F. Winsor AIA

Firm Personnel by Discipline

- Architectural 5
- Engineering 4
- Administrative 2
- Total in Firm 11

Gunn, Rhode & Feldman Inc.

4450 Westlynn Avenue
Minneapolis, MN 55416
612/926-7635

AIA

Firm Personnel by Discipline

- Architectural 3
- Total in Firm 3

GRISWOLD AND RAUMA, ARCHITECTS INC.

720 2nd Avenue South
Minneapolis, MN 55402
612/339-3071
Established 1952

David J. Griswold AIA
John G. Rauma AIA
Jackson W. Griswold AIA
Calvin M. Olson AIA

Firm Personnel by Discipline

- Architectural 5
- Administrative 1
- Total in Firm 6

Housing

- Work % 10

Office Buildings/Banks

- Work % 10

Retail/Commercial

- Work % 10

Industrial/Mfg.

- Work % 10

Churches/Worship

- Work % 10

Restoration/Preservation

- Work % 10

Municipal Buildings

- Work % 10

Interior Architecture

- Work % 10

Education/Academic Buildings

- Work % 10

Minneapolis Technical Institute and Parking Garage, Minneapolis, MN; Weyerhaeuser Distribution Center (Retrofit), St. Paul, MN; Ridgegate YMAC, Minnetonka, MN; Boise Cascade Manufacturing Plant, Milford, CT; Minneapolis Star & Tribune Newspaper Office Building, Minneapolis, MN; Stone Container, Tupelo, MS

GRISWOLD AND RAUMA, ARCHITECTS INC.

720 2nd Avenue South
Minneapolis, MN 55402
612/339-3071
Established 1952

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Jackson W. Griswold AIA
Calvin M. Olson AIA

Firm Personnel by Discipline

- Architectural 5
- Administrative 1
- Total in Firm 6

Housing

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Office Buildings/Banks

- Work % 10

Retail/Commercial

- Work % 10

Industrial/Mfg.

- Work % 10

Churches/Worship

- Work % 10

Restoration/Preservation

- Work % 10

Municipal Buildings

- Work % 10

Interior Architecture

- Work % 10

Education/Academic Buildings

- Work % 10

Minneapolis Technical Institute and Parking Garage, Minneapolis, MN; Weyerhaeuser Distribution Center (Retrofit), St. Paul, MN; Ridgegate YMAC, Minnetonka, MN; Boise Cascade Manufacturing Plant, Milford, CT; Minneapolis Star & Tribune Newspaper Office Building, Minneapolis, MN; Stone Container, Tupelo, MS
H

DELBERT J. HALL
2021 Hennepin Avenue E.
Suite 189
Minneapolis, MN 55413
612/331-1941
Established 1976
Delbert J. Hall AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

H. B. Fuller, Vadnais Heights, MN; VA Replacement Medical Center, Minneapolis, MN; Piper Tower, Minneapolis, MN; Downtown Radisson Hotel, Minneapolis, MN, Honeywell Computer Center, Honeywell Plaza, Minneapolis, MN; Bemidji Middle School, Be-
midji, MN.

RICHARD HANDFORD
323 Liberty Bank Building
St. Paul, MN 55104
612/643-4263
Established 1974
Richard Handford AIA
Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Hammel Green & Abramson Inc.
1201 Harmon Place
Minneapolis, MN 55403
612/332-3944
Established 1953
Richard Hammel FAIA
Curtis Green FAIA
Bruce Abrahamson FAIA
George T. Riches AIA
Harry Wilcox PE
Eldon Burow AIA

Hammel Green & Abramson Inc.
65
Engineering 50
Landscape Architects 2
Interior Designers 4
Planners 1
Other Technical 7
Administrative 28
Total in Firm 167

H. B. Fuller, Vadnais Heights, MN; VA Replacement Medical Center, Minneapolis, MN; Piper Tower, Minneapolis, MN; Downtown Radisson Hotel, Minneapolis, MN, Honeywell Computer Center, Honeywell Plaza, Minneapolis, MN; Bemidji Middle School, Be-
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323 Liberty Bank Building
St. Paul, MN 55104
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Richard Handford AIA
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Total in Firm 2

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Planners 1
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Total in Firm 167

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Planners 1
Other Technical 7
Administrative 28
Total in Firm 167

H. B. Fuller, Vadnais Heights, MN; VA Replacement Medical Center, Minneapolis, MN; Piper Tower, Minneapolis, MN; Downtown Radisson Hotel, Minneapolis, MN, Honeywell Computer Center, Honeywell Plaza, Minneapolis, MN; Bemidji Middle School, Be-
midji, MN.

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323 Liberty Bank Building
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Harry Wilcox PE
Eldon Burow AIA

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Interior Designers 4
Planners 1
Other Technical 7
Administrative 28
Total in Firm 167

H. B. Fuller, Vadnais Heights, MN; VA Replacement Medical Center, Minneapolis, MN; Piper Tower, Minneapolis, MN; Downtown Radisson Hotel, Minneapolis, MN, Honeywell Computer Center, Honeywell Plaza, Minneapolis, MN; Bemidji Middle School, Be-
midji, MN.
THOMAS HODNE
ARCHITECTS, INC.
2404 Stevens Avenue South
Minneapolis, MN 55404
612/871-4440
Established 1982
Thomas H. Hodne, Jr. FAIA
Roger W. Kipp AIA
Firm Personnel by Discipline
Architectural 5
Planners 1
Other Technical 3
Administrative 1
Total in Firm 10
Housing 40
Retail/Commercial 10
Restoration/Preservation 15
Education/Academic Buildings 20
Cultural/Arts Centers 15

HORTY, ELVING & ASSOCIATES INC.
505 E. Grant Street
Minneapolis, MN 55404
612/332-4422
Established 1955
Thomas Harty AIA
Carl D. Elving PE
Firm Personnel by Discipline
Architectural 9
Engineering 9
Interior Designers 2
Planners 1
Other Technical 1
Administrative 2
Total in Firm 24
Housing 20
Medica1 Facilities/Health Care 10
Churches/Worship 10
Restoration/Preservation 2

INTERDESIGN INC.
1409 Willow Street
Minneapolis, MN 55403
612/871-7979
Established 1969
Duane Thorbeck AIA
Roger B. Martin ASLA
Robert Lambert AIA
Firm Personnel by Discipline
Architectural 2
Landscape Architects 2
Other Technical 3
Administrative 2
Total in Firm 9
Housing 10
Church/Worship 5
Restoration/Preservation 10
Municipal Buildings 10
Landscape Architecture 35

BERNARD JACOB
ARCHITECTS, LTD.
35 South 8th Street
Minneapolis, MN 55402
612/332-5515/5517
Established 1970
Bernard Jacob FAIA
Sandra Becker IBID
Firm Personnel by Discipline
Architectural 1
Interior Designers 1

IDAstrom Ostreim
ARCHITECTS, P.A.
633 E. Lake Street
Wayzata, MN 55391
612/473-1011
Established 1980
John B. A. Idstrom, II AIA
David M. Ostreim AIA
Firm Personnel by Discipline
Architectural 2
Other Technical 1
Administrative 1
Total in Firm 4

JAFVERT, MUELLER
AND ASSOCIATES, INC.
6700 France Avenue
Edina, MN 55435
612/926-7677
Established 1972
Lloyd R. Jafvert AIA
Steven P. Mueller AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5
Housing 20
Office Buildings/Banks 10
Retail/Commercial 10
Industrial 10
Medical/Health Care 10
Churches 10
Interior Architecture 20
Solar/Earth Sheltered 15

HOKANSON/LUNNING
ASSOCIATES, INC.
4537 Zenith Avenue S.
Minneapolis, MN 55410
612/926-2510
Established 1981
Brad Hokanson AIA
Robert B. Lunning
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5
Housing 80
Urban Design 20

TRUMAN HOWELL
ARCHITECTS & ASSOCIATES, INC.
620 Mendelssohn Avenue
Suite 130
Minneapolis, MN 55427
612/814-9777
Established 1978
Truman Howell AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5
Housing 10
Office Buildings 10
Industrial/Manufacturing 20
Medical/Health Care 50

BERNARD JACOB
ARCHITECTS, LTD.
35 South 8th Street
Minneapolis, MN 55402
612/332-5515/5517
Established 1970
Bernard Jacob FAIA
Sandra Becker IBID
Firm Personnel by Discipline
Architectural 1
Interior Designers 1

AND ASSOCIATES,
INC.
4537 Zenith Avenue S.
Minneapolis, MN 55410
612/926-2510
Established 1981
Brad Hokanson AIA
Robert B. Lunning
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5
Housing 80
Urban Design 20

Blaisdell Town Homes, Mpls.
MN; Residence, 587 Marshall,
St. Paul, MN; Residence, 651
Ashland, St. Paul, MN; Hill-
crest Town Homes, St. Paul,
MN

Minnesota Zoological Garden,
Apple Valley, MN; Augsburg
Park Library, Richfield, MN;
St. Cloud Public Library, St.
Cloud, MN; Pioneer Hall Renov-
ation, Minneapolis, MN; Vin-
tland National Center, Independ-
ence, MN; City Services
Building, Eden Prairie, MN.

Other Technical 1
Administrative 2
Total in Firm 2
Medical Facilities/Health Care 1
Churches/Worship 5
Restoration/Preservation 2

Landscape/Planning 2
Landscape/Architecture 1
Landscape Architecture 10

Other Technical 1
Administrative 2
Total in Firm 2

Other Technical 3
Administrative 2
Total in Firm 9

Other Technical 1
Administrative 1
Total in Firm 2

INDUSTRIAL 10
Medical/Health Care 5
Churches 10
Interior Architecture 20
Solar/Earth Sheltered 15

Golden Hills Shopping Center,
Golden Valley, MN; American
Indian Evangelical Church,
Minneapolis, MN; Garcia's Restau-
tant, St. Louis Park, MN;
Southdale Square Shopping Cen-
ter Remodeling, Richfield, MN;
Anderson Residence, Orono,
MN; Bluefin Bay on Lake Supe-
rior, Tofte, MN.

 Dropbox
K

PHILLIP D. JOHNSON
ARCHITECT
5637 Brooklyn Boulevard
Minneapolis, MN 55429
612/333-4235
Established 1972
Phillip D. Johnson AIA
Firm Personnel by Discipline
Architectural 1
Administrative ½
Total in Firm 1½

Work %

Housing 20
Office Buildings 10
Retail 10
Industrial 10
Churches/Worship 30
Interior Architecture 15
Solar/Earth Sheltered 5

Brooklyn Law Center; Zimmerman Evangelical Free Church Addition; Kwik Copy, Minnetonka, MN; New Life Bible Church, Orono, MN.

JOHNSON, SHELDON & SORENSON
ARCHITECTS, INC.
10249 Yellow Circle Drive
Minnetonka, MN 55343
612/933-6337
Established 1972

Roger F. Johnson AIA
Alvin D. Sheldon AIA
Carlyle A. Sorenson AIA

Firm Personnel by Discipline
Architectural 8
Administrative 1
Total in Firm 9

Work %

Housing 40
Office Buildings/Banks 15
Industrial 10
Churches/Worship 15
Municipal Buildings 10
Interior Architecture 5
Education/Academic Buildings 5
Calvary Lutheran Church Addition, Alexandria, MN; Burnsville Car Wash, Burnsville, MN; Clara City Telephone Co., Clara City, MN; Lonsdale Telephone Co., Lonsdale, MN; Mower County HUD Housing, Austin, MN; Northland Glass Co., Albertville, MN.

KEGEL ASSOCIATES
ARCHITECTS
1050 Lake Avenue
P.O. Box 599
Detroit Lakes, MN 56501
218/847-9876
Established 1961
Fred W. Kegel, Jr. AIA
Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Work %

Housing 10
Office Buildings/Banks 30
Industrial 10
Medical Facilities/Health Care 40
Municipal Buildings 10
Hospital, Red Lake, MN; Telephone Building, Walker, MN; Nursing Home, Fertile, MN; Telephone Building, Erskine, MN; Telephone Building, Red Lake Falls, MN; Elderly Housing, Long Prairie, MN.

KEILLOR ARCHITECTS
1642 Edgewood Avenue South
St. Louis Park, MN 55426
612/545-1324
Established 1980
Richard Keillor AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %

Housing 10
Office Buildings/Banks 30
Retail/Commercial 10
Churches 10
Energy Conservation 10
Addition and Remodeling, First National Bank, Anoka, MN; Bunker Riverview Estate, Anoka, MN; Elm Creek Chapel, Brooklyn Park, MN.

KEISER
ARCHITECTURE
CORPORATION
752 Spring Ave.
Fergus Falls, MN 56537
218/739-2396
Branch Office: Worthington,
MN 56187
Established 1972
Roger J. Keiser AIA

Work %

Housing 4
Office Buildings/Banks 4
Retail/Commercial 3
Medical Facilities/Health Care 40
Churches/Worship 2
Restoration/Preservation 5
Municipal Buildings 15
Interior Architecture 2
Solar/Earth Sheltered 5
Education/Academic Buildings 20
Archdeacon Gilfillan School, Bearden, MN; Sunset Nursing Home, Park Rapids, MN; Phases I, II, & III, Fergus Falls State Hospital Remodeling, Fergus Falls, MN; Nobles County Developmental Achievement Center, Worthington, MN.

KILSTOFFE
ASSOCIATES INC.
250 N. Central
Suite 210
Wayzata, MN 55391
612/473-0277
Established 1970
Irwin H. Kilstoffe AIA
Fred A. Poisson
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %

Housing 10
Office Buildings/Banks 20
Retail/Commercial 15
Industrial/Manufacturing 20
Medical 20
Churches/Worship 25

Addition, ACMIA, Alexandria, MN; Bunker Riverview Estate, Anoka, MN; First National Bank, Baldwin, WI; Thrifty Drug Store, Crookston, MN.

KLAPSTE GOLTZ
ARCHITECTS
1112 Nicollet Mall
Minneapolis, MN 55403
612/332-8901
Established 1976
Howard F. Goltz AIA
James L. Klapste AIA
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

Work %

Housing 20
Office Buildings/Banks 20
Retail/Commercial 20
Industrial/Manufacturing 20
Medical 5
Interior Architecture 10
Municipal 5
E&P Enterprises, Inc., Eden Prairie, MN; Ridgeview Office Center, Minnetonka, MN; Lake Ridge Condominiums, Woodbury, MN; Crossings Shopping Mall and Dept. Remodeling, Ashland, WI; Advanced Mobile Phone Service Facility, Mpls., MN; Nortronics Manufacturing Plant, Dassel, MN.

CLETUS G. KLEIN
ARCHITECT
32 Tenth Ave. S.
Hopkins, MN 55343
612/935-1975
Established 1969
Cletus G. Klein AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %

Medical Facilities/Health Care 75
Churches/Worship 25

Branch Office: Worthington.

CLETUS G. KLEIN
ARCHITECT
5637 Brooklyn Boulevard
Minneapolis, MN 55429
612/333-4235
Established 1972
Cletus G. Klein AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %

Medical Facilities/Health Care 75
Churches/Worship 25

Branch Office: Worthington.
LINDBERG PIERCE, INC.
600 1st Avenue North
Suite 710
Minneapolis, MN 55403
612/332-3339
Established 1973
James H. Lindberg AIA
Robert L. Pierce AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

Work %
Housing 5
Office Buildings/Banks 15
Retail/Commercial 10
Industrial/Mfg. 10
Churches/Worship 10
Restoration/Preservation 5
Municipal Buildings 40
Interior Architecture 5

LUNDAHL ARCHITECTS
5509 Eden Prairie Road
Minnetonka, MN 55343
612/933-3011
Established 1972
Richard L. Lundahl AIA
Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3

Work %
Housing 5
Office Buildings/Banks 5
Industrial/Mfg. 5
Churches/Worship 75
Municipal Buildings 5
Education/Academic Buildings 5
St. Michael's Lutheran Church;
Minnetonka-Hopkins Assembly of God Church

THE LUNDGREN ASSOCIATES, INC.
1140 Minnesota Building
St. Paul, MN 55101
612/224-4765
Established 1950
Louis R. Lundgren FAIA
June S. Lundgren AIA
Cherry Gen Lundgren
Firm Personnel by Discipline
Architectural 3
Total in Firm 3

MACDONALD AND MACK PARTNERSHIP
215 Grain Exchange Building
Minneapolis, MN 55415
612/341-4051
Established 1977
Stuart E. MacDonald AIA
Robert C. Mack AIA
Firm Personnel by Discipline
Architectural 2
Other 1
Total in Firm 3

Work %
Restoration/Preservation/
Adaptive Use 100
Historical/architectural survey of
Janesville, WI; Restoration of
the Grain Exchange Building
terra cotta, Minneapolis, MN;
Restoration, Red Wing City
Hull, MN; 69 Sites, Historic
Survey, US National Park Ser­
vice; Restoration Study for Ni­
cholas Jarrot Mansion, Cahokia,
IL; Restoration, Security Life
Building, Minneapolis, MN

ROBERT G. MAGNEY AIA
11408 Oak Ridge Lane
Minnetonka, MN 55343
612/544-9219
Robert G. Magney AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

LUTTERS ARCHITECTURE/
PLANNING/DESIGN
13517 Garfield Avenue South
Burnsville, MN 55337
612/890-6380
Established 1980
Harry J. Lutters AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Medical Facilities/Health Care 100

MALLOCH-WIRTH ARCHITECTS INC.
221 3rd Avenue South
Minneapolis, MN 55401
612/333-3141
Established 1981
Harry Wirth AIA
Duncan Malloch AIA
Bob Ready AIA, AICP
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Work %
Housing 40
Office Buildings/Banks 20
Retail/Commercial 20
Solar/Earth Sheltered 20

MAY/JUNE 1983 65
<table>
<thead>
<tr>
<th>Firm Name</th>
<th>Firm Personnel by Discipline</th>
<th>Work %</th>
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<td>ARCHITECTS</td>
<td>Firm Personnel by Discipline</td>
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<td>MATRIX ASSOCIATES, ARCHITECTS</td>
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<td>Housing</td>
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<td>Office Buildings/Banks</td>
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<td>First Bank Robbinsdale, MN</td>
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<td>tal; Remodeling Oddfellows' Home, Northfield,</td>
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<td>Remodeling &amp; Additions to Three Links Apartm</td>
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<td>tal; Remodeling Oddfellows' Home, Northfield,</td>
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**MATSON, WEGLEITNER AND ABENDROTH ARCHITECTS, INC.**

- Firm Personnel by Discipline: Architectural 2, Planners 2, Total in Firm 4
- Retail 1
- Education/Academic Buildings 99
- Barnum Senior High School, Barnum, MN; Mora Elementary School Addition, Lakeview Elementary School, MN; Forest Lake Jr. High School, MN; Canby High School Roof Replacement, MN; Studio Addition to Osseo Ed. Service Building

**MC GUIRE ARCHITECTS PLANNERS INCORPORATED**

- Firm Personnel by Discipline: Architectural 1, Administrative 1, Total in Firm 2
- Tobie's Restaurant and Supper Club, Hinckley, MN; State of Minnesota CAAPC Competition No. 1 Award, Parking Structure & Public Park at Central Park, Capitol Campus, Saint Paul, MN; Site Development/Headquarters, Arneson Heating Service Inc., So. St. Paul, MN; Church of St. Thomas, School Window Replacement & Restoration, Minneapolis, MN; Lent Township Hall, Chisago County, Stacy, MN; State of Minnesota, Retrofit Insulation & Weatherstripping, Minnesota Correctional Facility, Stillwater, MN; School Re-Roofing & Miscellaneous Repairs, Howard Lake, MN

**MCBHIRE COURTNEAU LUCKE ARCHITECTS INC.**

- Firm Personnel by Discipline: Architectural 4, Other Technical 2, Administrative 1, Total in Firm 7
- The Old Pottery Development, Reg Wing, MN; Office Addition to Manufacturing Plant, St. Louis Park, MN; Spec Office Building, Zumbrota, MN; Remodeling for City Liquor Store, Cannon Falls, MN; Apartment Building Renovation, River Falls, WI; Elevator Addition to State Facility, Red Wing, MN

**MEINHARDT ASSOCIATES/ARCHITECTS**

- Firm Personnel by Discipline: Architectural 2, Administrative 1, Total in Firm 3
- Housing 10
- Office Buildings/Bank 5
- Retail/Commercial 5
- Industrial 10
- Medical 10
- Churches/Worship 10
- Restoration/Preservation 10
- Municipal Buildings 10
- Interior Architecture 5
- Solar/Earth Sheltered 10
- Education 20

**MC KICHECHNIE ARCHITECT**

- Firm Personnel by Discipline: Architectural 3, Administrative 1, Total in Firm 2
- Housing 10
- Office Buildings/Bank 5
- Retail/Commercial 5
- Industrial 10
- Medical 10
- Churches/Worship 10
- Restoration/Preservation 10
- Municipal Buildings 10
- Interior Architecture 5
- Solar/Earth Sheltered 10
- Education 20

**MEINHARDT ASSOCIATES/ARCHITECTS**

- Firm Personnel by Discipline: Administrative 1, Total in Firm 2
- Housing 10
- Office Buildings/Bank 5
- Retail/Commercial 5
- Industrial 10
- Medical 10
- Churches/Worship 10
- Restoration/Preservation 10
- Municipal Buildings 10
- Interior Architecture 5
- Solar/Earth Sheltered 10
- Education 20

**MCHESON KRAFFT BIRCH & KILGORE, INC.**

- Firm Personnel by Discipline: Architectural 1, Administrative 1, Total in Firm 2
- Merrill A. Birch AIA
- Robert A. Kilgore AIA
- Robert C. van Hoe CSI
MELANDER AND MEYER
ARCHITECTS, INC.
800 Lonsdale Building
Duluth, MN 55802
218/727-5044
Established 1971
Donald K. Melander AIA
Lance S. Siddens

Firm Personnel by Discipline
Architectural 2
Other Technical 1
Administrative 2
Total in Firm 5

Work %

Housing 11
Office Buildings/Banks 10
Retail/Commercial 2
Industrial 6
Medical 8
Churches/Worship 4
Restoration/Preservation 10
Municipal 20
Interior Architecture 5
Solar/Earth Sheltered 2
Education 2

St. Louis County Heritage & Arts Center, Performing Arts Bldg, Duluth; Duluth Water & Gas Dep't, City of Duluth; Service Center at Long Prairie, for Minnesota Power, Duluth; U.S. Army Reserve Center Modernization/Add'n, Duluth; West End Firehall, City of Duluth; Morgan Park Jr. High School Remodeling/Add'n, Duluth

GORDON R. METCALF, ARCHITECT, AIA, LTD.
3030 Harbor Lane N.
Plymouth, MN 55441
612/559-1734
Established 1969
Gordon R. Metcalf AIA

Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Work %

Housing 65
Industrial 35

GORDON R. METCALF AND ROCKCASTLE, LTD.
325 Second Avenue North
Minneapolis, MN 55401
612/375-0336
Established 1981

Thomas A. Meyer AIA
Jeffrey A. Scherer AIA
Garth C. Rockcastle AIA

Firm Personnel by Discipline
Architectural 7
Total in Firm 8

Work %

Housing 20
Office Buildings/Banks 15
Retail/Commercial 10
Industrial/Manufacturing 10
Restoration/Preservation 10
Municipal Buildings 15
Interior Architecture 10
Solar/Earth Sheltered 5

Paul C. Hughes AIA

German, Minneapolis; Oven's Le Cuisine, Minneapolis, MN; The Amsterdam, Minneapolis, MN; Ewald Place, Golden Valley, MN; Brainerd Crow Wing Historic Restoration, Ft. Snell House & Officers' Quarters Field, MN; Commandant's model Wold Chamberlain Pier "D" 2nd Addition & Remodeling Wold Chamberlain Field, MN; Commandant's House & Officers' Quarters Historic Restoration, Ft. Snelling, MN; Brainerd Crow Wing Airport Terminal Building, Brainerd, MN; Stearns County Historical Museum, St. Cloud, MN; Railroad Island Double Duplexes, St. Paul, MN; Deaconess Housing, Minneapolis; Alexandra House, Inc., Remodeling, Blaine, MN.

WILLIAM MILBRATH, ARCHITECT
233A North Main Street
P.O. Box 481
Austin, MN 55912
507/433-7421
Established 1949
William Milbrath AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %

Housing 5
Office Buildings/Banks 10
Churches/Worship 15
Municipal Buildings 65
Solar/Earth Sheltered 5

Fire Station, Austin, MN; The Register, Owatonna, IA; Energy Retrofit, Mower County Courthouse & Law Enforcement Center, Austin, MN

MILLER-DUNWIDDIE-ASSOCIATES, INC.
7913 Southtown Center
Minneapolis, MN 55431
612/884-8421
Established 1963
Foster W. Dunwiddie AIA
William J. Miller AIA

Firm Personnel by Discipline
Architectural 8
Administrative 1
Total in Firm 9

Work %

Office Buildings 10
Retail 5
Industrial 5
Restoration/Preservation 25
Municipal Buildings 25
Other (Airport) 30

Ewald Place, Owatonna, MN; Bank, Owatonna, MN; Ewald Place, Golden Valley, MN; Railroad Island Double Duplexes, St. Paul, MN; Deaconess Housing, Minneapolis; Alexandra House, Inc., Remodeling, Blaine, MN.

MILLER HANSON WESTERBECK BELL
ARCHITECTS INC.
Butler Square, Suite 300
100 North Sixth Street
Minneapolis, MN 55403
612/338-7700
Established 1962
John R. Miller AIA
James E. Hanson AIA
Larry W. Westerbeck AIA
Edwin M. Bell AIA
Wilton J. Berger

Firm Personnel by Discipline
Architectural 28
Other technical 5
Administrative 1
Total in Firm 35

Work %

Housing 30
Office Buildings/Banks 15
Retail/Commercial 10
Medical Facilities 10
Restoration/Preservation 10
Municipal Buildings 3
Solar/Earth Sheltered 2

Lake Point Condominiums, Mpls; Nicollet Towers, Mpls; Mills Point, Minneapolis, MN; Galtee Plaza, St. Paul, MN; Excelsior Bay Gables, Excelsior, MN; Fontaine Towers, Rochester, MN

MONSON/UELAND
ARCHITECTS, INC.
112 North Third Street
Minneapolis, MN 55401
612/333-4260
Established 1981
D. Jon Monson AIA
Christopher Ueland AIA

Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3

Work %

Housing 70
Retail/Commercial 10
Restoration/Preservation 20

The Hiddenshores of Crystal Lake, Robbinsdale; Mitterhaus's Le Cuisine, Minneapolis, MN; Ewald Place, Golden Valley, MN; The Amsterdam Building Renovation, Minneapolis, MN
### N-O

**Robert M. Nelson, Architect**  
2589 Fisk Street  
Roseville, MN 55113  
612/484-9027  

- **Established:** 1980  
- **Firm Personnel by Discipline: Architectural:** 1  
- **Total in Firm:** 1  

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<th>Work %</th>
<th>Housing</th>
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<th>Retail</th>
<th>Industrial/Manufacturing</th>
<th>Medical Facilities</th>
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- **Work %**
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  - Office Buildings/Banks: 5  
  - Retail: 5  
  - Industrial/Manufacturing: 10  
  - Medical Facilities: 10  
  - Churches/Worship: 5  
  - Restoration/Preservation: 5  
  - Municipal Buildings: 5  
  - Interior Architecture: 5  
  - Solar/Earth Sheltered: 15  
  - Total in Firm: 1

**Eldon Morrison, AIA**  
Architects/Inc.  
White Bear Lake, MN 55110  
612/426-3287  

- **Established:** 1967  
- **Firm Personnel by Discipline: Architectural:** 5  
- **Total in Firm:** 5

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- **Work %**
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  - Office Buildings/Banks: 10  
  - Retail: 10  
  - Industrial/Manufacturing: 5  
  - Medical Facilities: 5  
  - Churches/Worship: 5  
  - Restoration/Preservation: 5  
  - Municipal Buildings: 5  
  - Interior Architecture: 5  
  - Solar/Earth Sheltered: 10  
  - Total in Firm: 20

**Palaia-Svedberg, Architects/Inc.**  
1191 Niles Avenue  
St. Paul, MN 55116  
(612) 699-9678  

- **Established:** 1980  
- **Firm Personnel by Discipline: Architectural:** 1  
- **Total in Firm:** 1

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- **Work %**
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  - Office Buildings/Banks: 50  
  - Retail: 50  
  - Industrial/Manufacturing: 50  
  - Medical Facilities: 50  
  - Churches/Worship: 50  
  - Restoration/Preservation: 50  
  - Municipal Buildings: 50  
  - Interior Architecture: 50  
  - Solar/Earth Sheltered: 50  
  - Total in Firm: 50

**Pat & Rolf Partnership**  
2311 Wayzata Boulevard  
Minneapolis, MN 55405  
612/374-3490  

- **Established:** 1952  
- **Firm Personnel by Discipline: Architectural:** 1  
- **Total in Firm:** 1

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  - Office Buildings/Banks: 40  
  - Retail: 40  
  - Industrial/Manufacturing: 40  
  - Medical Facilities: 40  
  - Churches/Worship: 40  
  - Restoration/Preservation: 40  
  - Municipal Buildings: 40  
  - Interior Architecture: 40  
  - Solar/Earth Sheltered: 40  
  - Total in Firm: 40

**The Leonard Parker Associates, Architects Inc.**  
340 Oak Grove  
Minneapolis, MN 55403  
612/871-6864  

- **Established:** 1957  
- **Firm Personnel by Discipline: Architectural:** 1  
- **Total in Firm:** 1

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- **Work %**
  - Housing: 10  
  - Office Buildings/Banks: 10  
  - Retail: 10  
  - Industrial/Manufacturing: 10  
  - Medical Facilities: 10  
  - Churches/Worship: 10  
  - Restoration/Preservation: 10  
  - Municipal Buildings: 10  
  - Interior Architecture: 10  
  - Solar/Earth Sheltered: 10  
  - Total in Firm: 10

**Pat & Rolf Partnership**  
2311 Wayzata Boulevard  
Minneapolis, MN 55405  
612/374-3490  

- **Established:** 1952  
- **Firm Personnel by Discipline: Architectural:** 1  
- **Total in Firm:** 1

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- **Work %**
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  - Office Buildings/Banks: 40  
  - Retail: 40  
  - Industrial/Manufacturing: 40  
  - Medical Facilities: 40  
  - Churches/Worship: 40  
  - Restoration/Preservation: 40  
  - Municipal Buildings: 40  
  - Interior Architecture: 40  
  - Solar/Earth Sheltered: 40  
  - Total in Firm: 40

**Patch Erickson Madson Watten, Inc.**  
2311 Wayzata Boulevard  
Minneapolis, MN 55405  
612/374-3490  

- **Established:** 1952  
- **Firm Personnel by Discipline: Architectural:** 1  
- **Total in Firm:** 1

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- **Work %**
  - Housing: 40  
  - Office Buildings/Banks: 40  
  - Retail: 40  
  - Industrial/Manufacturing: 40  
  - Medical Facilities: 40  
  - Churches/Worship: 40  
  - Restoration/Preservation: 40  
  - Municipal Buildings: 40  
  - Interior Architecture: 40  
  - Solar/Earth Sheltered: 40  
  - Total in Firm: 40

- **Wind River Condominiums, Wyoming; Anoka County Parking Ramp and Courthouse Remodeling; Roseau MN Area Hospital and Clinic Additions; Melrose MN Hospital Addition; Scott County Detention Facility; County of Anoka Park Shelter**
DON PATES, AIA
ARCHITECT
Architect—Planner, Building & Energy Code Consultant
1291 Charlton
West St. Paul, MN 55118
612/457-3974
Established 1982
Don Pates

PAUL & OLSEN ASSOCIATES, LTD.
113 Fifth Avenue South
St. Cloud, MN 56301
612/252-4740
Established 1974
Robert F. Pauly
Richard A. Olsen
Joseph R. Bettsendorf
Gale J. Eastwood
Firm Personnel by Discipline
Architectural 6
Engineering 5
Other Technical 1
Administrative 3
Total in Firm 15

MAY/JUNE 1983
69

MEARLE EUGENE PETERSON, AIA
ARCHITECT
344 Nicollet Avenue, Suite 120.
Minneapolis, MN 55404
612/870-9595
Established 1971
Earl Eugene Peterson
Firm Personnel by Discipline
Architectural 1
Total in Firm 2

Work %
Housing 70
Office Buildings/Banks 8
Retail/Commercial 5
Industrial/Manufacturing 2
Restoration/Preservation 5
Interior Architecture 8
Dale/Earth/Sheltered 2

Dr. and Mrs. Paul Polski Residence, Sioux Narrows, Ontario; Mr. & Mrs. Erwin E. Kelm Condominium Minneapolis, MN; Wayne Office Building, Maplewood, MN; Alterations & additions to residence in St. Louis Park, MN; House for Mr. & Mrs. David L. Owen, Lake Minnetonka, MN; Industrial consultation, Northern Aluminum Corporation.

PETE RSON, CLARK AND ASSOCIATES, INC.
1212 Plymouth Building
Minneapolis, MN 55402
612/333-3215
Richard A. Peterson
Wilber B. Clark, Jr.
Firm Personnel by Discipline
Architectural 6
Interior Designer 1
Other Technical 2
Administrative 1
Total in Firm 20

PETERSON, CLARK AND ASSOCIATES, INC.
PLANNING AND DESIGN INC.
354 Grain Exchange Building
Minneapolis, MN 55415
612/339-4530
Established 1978
Loren D. Hoseck
Firm Personnel by Discipline
Architectural 1
Interior Designers 5
Other Technical 1
Administrative 1
Total in Firm 7

Interior Architecture 100

PETE RSON, CLARK AND ASSOCIATES, INC.
Established 1966
Craig D. Roney
Craig E. Rafferty
George E. Rafferty
(612) 224-4831

RACCHINI AND ASSOCIATES, INC.
353 St. Clair Avenue
St. Paul, MN 55102
612/291-8894
Established 1975
Robert L. Pope
Jon R. Pope
Daniel M. Klecker
Firm Personnel by Discipline
Architectural 12
Administrative 2
Total in Firm 14

Housing 10
Office Buildings/Banks 25
Retail/Commercial 5
Industrial/Manufacturing 10
Residential Divisions, Minneapolis, MN; Honeywell, Residential Division, Minneapolis, MN; CardioCare Corp., New York, NY; Oppenheimer, Wolff, Foster, Shepard and Donnelly Attorneys, Minneapolis.

POPE ASSOCIATES, INC.
533 St. Clair Avenue
St. Paul, MN 55102
612/291-8894
Established 1982
George E. Rafferty
Richard J. Rafferty
Craig E. Rafferty
Craig D. Roney
Firm Personnel by Discipline
Architectural 10
Planner 1
Administrative 2
Total in Firm 13

MAY/JUNE 1983
69

PETER RACCHINI AND ASSOCIATES, ARCHITECTS
2150 3rd Street
White Bear Lake, MN 55110
612/429-5376
Established 1963
Peter Racchini
Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Housing 10
Retail/Commercial 10
Industrial 5
Churches/Worship 20
Municipal Buildings 40
Education 15

Mille Lacs County Area DAC, Milaca, MN; Isanti Fire Station & City Hall, MN; Lexington Municipal Liquor Store, MN; Christ Evangelical Lutheran Church Addition, North St., Paul, MN; Val-Croix Condominiums, Stillwater, MN; Racchini Ecology House, Stillwater, MN.

RACCHINI, RAFFERTY, MIKUTOWSKI, RONEY & ASSOCIATES, INC.
352 Wacouta
St. Paul, MN 55102
(612) 224-4831
Established 1962
George E. Rafferty
Richard J. Rafferty
Frank Mikutowski
Craig E. Rafferty
Craig D. Roney
Firm Personnel by Discipline
Architectural 10
Planner 1
Administrative 2
Total in Firm 13

Housing 10
Office Buildings/Banks 20
Retail/Commercial 10
Medical/Health Care 10
Churches/Worship 20
Restoration/Preservation 20
Interior Architecture 10

Como Zoo, Large Cat Exhibit and Marine Mammal Building, St. Paul, MN; Union Depot Restoration, St. Paul, MN; Garfield School Empty Nest Housing, St. Paul, MN; American Beauty Macaroni Building Renovation, St. Paul, MN.
RAMBO LOGAN SLOAT
5100 Thimens Avenue
Minnetonka, MN 55343
612/474-4109
Established 1976
Logan N. Johnson
Lynn D. Sloat AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

REES DESIGN
Suite 140 E
9100 W. Bloomington Freeway
Bloomington, MN 55431
612/884-1172
Established 1981
Frank L. Reese AIA
Firm Personnel by Discipline
Architectural 2
Total in Firm 2

ROCKY & CHEEVER ARCHITECTS
300 Martin Building
Mankato, MN 56001
Established 1973
Walter B. Cheever AIA, CSI
Gerhard Teschner
A. David Aslemon
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

RUST ARCHITECTS
2179 4th Street
Suite 3-A Avalon Mall
White Bear Lake, MN 55110
612/429-1913
Established 1980
William E. Rust AIA, PE
Firm Personnel by Discipline
Architectural 12
Total in Firm 1-1/2

DAVID TODD RUNYAN AND ASSOCIATES, INC.
2412 Valentine Avenue
St. Paul, MN 55108
612/645-2700
Established 1973
David T. Runyan AIA
Gary J. Vogel AIA
Firm Personnel by Discipline
Architectural 8
Interior Designers 6

RALPH RAPSON & ASSOCIATES, INC.
1503 Washington Avenue South
Minneapolis, MN 55404
(612) 333-4561
Established 1954
Ralph Rapson FAIA
C. Barger
W. Hennemuth
R. Roskopf
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

ROCKY & CHEEVER
ARCHITECTS
300 Martin Building
Mankato, MN 56001
Established 1973
Walter B. Cheever AIA, CSI
Gerhard Teschner
A. David Aslemon
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

RUST ARCHITECTS
2179 4th Street
Suite 3-A Avalon Mall
White Bear Lake, MN 55110
612/429-1913
Established 1980
William E. Rust AIA, PE
Firm Personnel by Discipline
Architectural 12
Total in Firm 1-1/2

Work %
Housing 30
Office Buildings/Banks 15
Industrial 10
Medical 10
Restoration/Preservation 15
Municipal Buildings 10
Prime Engineering 5
Landscape Architecture 5

Work %
Housing 10
Office Buildings/Banks 25
Retail/Commercial 25
Industrial 25
Medical 25
Restoration/Preservation 25
Municipal Buildings 25
Prime Engineering 25
Landscape Architecture 25

Work %
Housing 10
Office Buildings/Banks 10
Retail/Commercial 10
Industrial 10
Medical 10
Restoration/Preservation 10
Municipal Buildings 10
Prime Engineering 10
Landscape Architecture 10

Other Technical 10
Education 10
Energy 10

Avalon Mall, White Bear Lake, MN; Nelson Bros. Construction
Condo Documents, St. Paul, MN; St. John's Lutheran
Church Addition, Winthe, WI; Plantenberg Residence, Eagan,
MN; Woolsey Residence Addition, White Bear Lake, MN;
Energy Analysis, Montgomery School District, MN

Burwell Residence, Orono; Apple Valley Health Care Center,
Minneapolis, MN; Twin Birch Health Care Center, Spring Park, MN; Mr. L's Restaurant and Club, Sherman, TX; Zycad Office Interior, St. Paul, MN

Pennock Place Cond. Apts, Apple Valley, MN; Willow Grove Shopping Center, Plymouth, MN; Interplastic Manufacturing, South Bend, IN; West Creek II Office Building, Medina, MN; Academy Ridge Apartments, Apple Valley, MN; Condo Office Park, Eden Prairie, MN

Prime Engineering, Hopkins, MN; John Paul Apartments Elderly Housing, Cold Spring, MN; Ridgedale Office Center, Minnetonka, MN; City Hall Remodeling, Winthrop, MN

HECO Building, Mankato, MN; Swimming Pool Addition and Auditorium Renovation, St. Peter, MN; Elementary School, St. James, MN; Northwestern National Bank, Mall facility, Mankato, MN; Federal Land Bank, Mankato, MN

Rust Architects, White Bear Lake, MN; Nelson Bros. Construction
Condo Documents, St. Paul, MN; St. John's Lutheran
Church Addition, Winthe, WI; Plantenberg Residence, Eagan,
MN; Woolsey Residence Addition, White Bear Lake, MN;
Energy Analysis, Montgomery School District, MN
ROBERT Y. SANDBERG & ASSOCIATES, INC.
505 East 26th Street
Hibbing, MN 55746
218/263-7553
Established 1955
Robert Y. Sandberg AIA
Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Work %
Retail/Commercial 10
Medical/Health Care 45
Churches/Worship 5
Municipal Buildings 20
Interior Architecture 5
Solar/Earth Sheltered 5
Education/Academic 10

Minnesota Power Service Center, Coleraine, MN; Northland Mental Health Center, Grand Rapids, MN; Ely Bloomenson Community Hospital Addition, Ely, MN; Remodeling Itasca Memorial Hospital, Grand Rapids, MN; Addition/Remodeling First Federal Savings and Loan, Grand Rapids, MN; Boenje Residence, Eshquagame-Biwabik, MN

RICHARD SCHWARZ/ NEIL WEBER, INC.
3601 Park Center Blvd.
Minneapolis, MN 55416
612/925-3342
Established 1970
Richard J. Schwarz AIA
Neil Weber AIA
Firm Personnel by Discipline
Architectural 5
Total in Firm 5

Work %
Housing 25
Office Buildings/Banks 20
Retail/Commercial 15
Restoration/Preservation 10
Municipal Buildings 15
Solar/Earth Sheltered 15

The Rivers Condominium, St. Paul, MN; Adams Hill Park Building, Richfield, MN; Mankato Municipal Garage Bldg., Mankato, MN; Brooklyn Executive Plaza Office Buildings, Brooklyn Park, MN; Linden Hills Townhouses and Cooperative, Minneapolis, MN; Minnesota Yacht Club Rehabilitation, Deephaven, MN

LAWRENCE SEIBERLICH, ARCHITECT, PLANNER, FUTURIST AFFILIATE OF CENTRUM
104 West Franklin Avenue
Minneapolis, MN 55404
612/870-0267

Established 1972
Lawrence Seiberlich AIA
Total Staff 1

Work %
Housing 30
Planning 25
Future Studies 15

Foley Woods Housing Community, Coon Rapids, MN; South Oaks, 1,650 Dwelling Units, Savage, MN; Roseville State Bank, Arden Hills Office, MN; Grand Rapids Central School, Future Studies and Building Analysis, Grand Rapids, MN; Historic Restoration, 461 Fort Road Office Building, St. Paul, MN

SESSING ARCHITECTS, INC.
424 Hamm Bldg.
St. Paul, MN 55102
612/228-9128
Established 1967

Norman R. Sessing AIA
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 5

Work %
Office Buildings/Banks 30
Industrial/Manufacturing 20
Churches/Worship 40
Municipal Buildings 10
Reroofing State Capitol Building, State of Minnesota; Minnesota South District Office Building, Burnsville, MN; Concordia College Faculty Space, St. Paul, MN, Faribault State Hospital, Reroofing, Faribault, MN; Blackduck State Bank, Blackduck, MN; Roseville Lutheran Church, Roseville, MN

SHANK KLEINEMAN DEZELAR ARCHITECTS
1885 University Avenue
St. Paul, MN 55104
612/644-6699
Established 1977
Fred J. Shank AIA
Steven A. Kleineman AIA
Gerald G. DeZelar AIA
Firm Personnel by Discipline
Architectural 3
Other Technical 1
Total in Firm 5

Work %
Housing 10
Office Bldgs/Banks 15
Retail/Commercial 10
Industrial/Manufacturing 20
Restoration/Preservation 20
Municipal Interior Architecture 5
Solar/Earth Sheltered 10

Chemical Engineering Center, Economics Laboratory, Inc., Eagan, MN; Margaret Recreation Center and Wilder Recreation Center, St. Paul, MN; Washington County Human Services, Inc., Oakdale, MN; Commercial State Bank Skyway Facility, St. Paul, MN; Iris Park Place Office Building Renovation, St. Paul, MN

SETTER, LEACH & LINDSTROM, INC.
1011 Nicollet Mall
Minneapolis, MN 55403
612/338-8741
Established 1917

A. J. Wilwerding AIA
Richard Vatsala PE
Basil Filonovich AIA
George Theodore PE
Kaare O. Faber PE
William Scott AIA
Firm Personnel by Discipline
Architectural 9
Engineering 48
Landscape Architects 1
Planning 10
Other Technical 2
Administrative 19
Total in Firm 102

Office Buildings/Banks 19
Retail/Commercial 12
Industrial/Manufacturing 30
Medical/Health Care 15
Restoration/Preservation 10
Municipal Buildings 5
Interior Architecture 5
Solar/Earth Sheltered 3
Education/Academic 7
Planning 1

Blake Schools, Mpls., MN; Medical Office Building & Gallery, St. Paul, MN; Target Stores, Inc., various locations nationwide; Southern Region Distribution Center, Maumelle, AR; Coca-Cola Bottling Facility, Eagan, MN; St. Louis Park Medical Center, International Diabetes Center, St. Louis Park

SHELTER RESOURCES, INC.
1219 Marquette Avenue South
Minneapolis, MN 55403
612/333-6837
Established 1978
Michael D. Sharratt AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

Work %
Housing 40
Office Buildings/Banks 40
Industrial/Nonresidential 10
Industrial/Manufacturing 5
Restoration/Preservation 90
Interior Architecture 10
Solar/Earth Sheltered 100

1201 Marquette Avenue Renovation, Minneapolis, MN; J. S. Elliot Condominiums, Minneapolis, MN; Madison School Renovation and Townhouses; 808 Nicollet Mall Renovation, Minneapolis, MN

JOHN SKUJINS ARCHITECT
2300 East 22nd Street
Minneapolis, MN 55406
612/340-0590
Established 1976
John Skujins AIA

Work %
Housing 50
Office Buildings/Banks 5
Retail/Commercial 15
Churches/Worship 15
Restoration/Preservation 5
Solar/Earth Sheltered 50
Education/Academic 10

Solar House, Minneapolis, MN; Camden Mall, Minneapolis, MN; Lyn Park Solar House; Solar Addition to Unity Christ Church, Minneapolis, MN

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<td>Restoration/Preservation</td>
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**DAVID STOVALL ARCHITECT**

P.O. Box 178
Excelsior, MN 55331
612/474-1156
Established 1980
David Stovall AIA

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Housing 50
Restoration/Preservation 10
Education/Academic 20
Recreation Buildings 20

Interpretive Center and Contact Station, Afton State Park, Afton, MN; Handicap Accessibility Alterations, Westbrook Hall, University of Minnesota, Minneapolis, MN; James Lake House, Lighthouse Point, FL; James Hannah House, Tonka Bay, MN; Braced Timber Frame House, Tonka Bay, MN

**SURI ARCHITECTS, INC.**

1150 Benton Way
St. Paul, MN 55112
612/483-6583
Established 1981

Shashi M. Suri AIA

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Housing 10
Office Buildings/Banks 10
Industrial/Manufacturing 10
Churches/Worship 10
Restoration/Preservation 5
Education/Academic 25

Northwestern Bell Community Dialing Office, North Branch, MN; Northwestern College, Roseville, MN; India Institute, Brooklyn Park, MN

**LEONARD TOLLEFSON ARCHITECTS, INC.**

1518 East Superior Street
Duluth, MN 55812
(218) 724-8802
Established 1971

John Ivey Thomas AIA
Thomas A. Vecchi AIA

Housing 5
Retail/Commercial 80
Industrial 15

Pioneer Hall Convention Center Skywalk System, Duluth; University of Minnesota Health Science Library, Duluth; Koochiching County Courts, Law Enforcement and County Jail; Scolastica Nursing Home; Lake Superior Plaza Office Building, Shops and Underground Parking Garage; DTA Offices, Shops and Bus Garage

**THORSSEN & THORSHOV ASSOCIATES, INC.**

1000 Title Insurance Building
Minneapolis, MN 55401
612/339-7671
Established 1957

Willard L. Thorsen AIA
Roy N. Thorshov FAIA
William L. Fay AIA

Firm Personnel by Discipline
Architectural 7
Administrative 3
Total in Firm 10

Housing 5
Office Buildings/Banks 15
Retail/Commercial 40
Restoration/Preservation 5
Municipal Buildings 10
Interior Architecture 2
Solar/Earth Sheltered 3
Education 20

Roseville Public Schools, Roseville, MN; Marshall Square, Marshall, MN; Plymouth City Hall, Plymouth, MN; Basic Medical Sciences Building, University of Minnesota, Duluth, MN; Oliver Hudson Kelley Interpretive Center, Elk River, MN; Burbank Livingston Griggs House Restoration, St. Paul, MN

**THOMAS AND VecCHI INC.**

1518 East Superior Street
Duluth, MN 55812
(218) 724-8802
Established 1971

John Ivey Thomas AIA
Thomas A. Vecchi AIA

Housing 5
Retail/Commercial 80

Pioneer Hall Convention Center Skywalk System, Duluth; University of Minnesota Health Science Library, Duluth; Koochiching County Courts, Law Enforcement and County Jail; Scolastica Nursing Home; Lake Superior Plaza Office Building, Shops and Underground Parking Garage; DTA Offices, Shops and Bus Garage

**TOLZT, KING, DUVALL, ANDERSON & ASSOCIATES INC.**

2500 American National Bank Building
St. Paul, MN 55101
612/292-4400
Established 1990

Robert R. Ryder PE
Duane T. Prew PE
Wayne A. Olson AIA
James E. Voyen PE
Walter W. Thors PE
DuWayne R. Kasma PE

Firm Personnel by Discipline
Architectural 15
Engineering 59
Landscape Architects 2
Other Technical 48
Administrative 18
Total in Firm 142

Housing 15
Industrial 25
Restoration/Preservation 10
Municipal Buildings 15
Education 20
Civil & Environmental Eng. 25

**TRAYNOR, HERMANSON & HAHN ARCHITECTS INC.**

311 Medical Arts Building
St. Cloud, MN 56301
612/251-8760
Established 1949

Gilbert F. Hahn AIA

Firm Personnel by Discipline
Architectural 4
Administrative 2
Total in Firm 6

Housing 25
Office Buildings/Banks 10
Retail/Commercial 5
Medical 10
Churches/Worship 5
Restoration/Preservation 3
Solar/Earth Sheltered 2
Education 30
Motels 10

Building Trades Addition to AVTI, St. Cloud, MN; Stevens County Developmental Achievement Center, Morris, MN; Thrifty Scot Motel, Bloomington, MN; St. Boniface Church, Cold Spring, MN; Quadrangle Renovation, St. John's University, Collegeville, MN; Elderly Housing, Benson, MN
GARY TURPENING & ASSOCIATES, ARCHITECTS & PLANNERS
14500 Burnhaven Dr.
Burnsville, MN 55337
612/435-5345
Established 1982
Gary P. Turpening AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

WILLIAM A. VIEWERING, ARCHITECT, INC.
1939 Munster Ave.
St. Paul, MN 55116
612/699-1294
Established 1971
Wm. A. Viewering AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

V

VOIGT & FOURRE, INC., ARCHITECTS
2109 Grand Ave.
St. Paul, MN 55105
612/690-2451
Established 1934
James D. Voigt AIA
Daniel W. Fourre AIA
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

Housing 10
Office Buildings 45
Industrial 10
Medical/Health Care 10
Churches/Worship 20
Municipal 2
Education/Academic 3

Byrne Residence, St. Paul; 4-H Activities Building, Steele County; MN Federal Savings, New Ulm, MN; MN Federal Savings, St. Cloud, MN; St. Stephen’s Church, Anoka, MN; St. Paul Seminary Refectory, St. Paul, MN

W

WATERS, CLUTS & O’BRIEN, INC.
7470 Market Place Drive
Eden Prairie, MN 55344
612/941-4822
Established 1978
Keith Waters Brian Cluts Daniel O’Brien AIA
Firm Personnel by Discipline
Architectural 6
Administrative 2
Total in Firm 8

Housing 40
Office Buildings/Banks 5
Retail/Commercial 10
Medical/Health Care 5
Churches/Worship 15
Restoration/Preservation 5
Municipal Buildings 5
Interior Architecture 5
Solar/Earth Sheltered 5
Education/Academic 5

Five O’Clock Restaurant, Cumberland, WI; Thomas More Retreat Center, Webster, WI; Townhouse Complex, Cumberland, WI; Cumberland Federal Savings & Loan, Cumberland, WI; Jacobson Optometric Building, Cumberland, WI; First United Methodist Church, Cumberland, WI

RICHARD A. WHEELER AIA, ARCHITECT
305 Cimarron Road, Apple Valley, MN 55124
(612) 454-6359
Established 1981
Richard A. Wheeler AIA
Firm Personnel by Discipline
Architectural 2
Other Technical 1
Administrative 1
Total in Firm 4

Energy Consulting 70
Housing 27
Restoration/Preservation 3
Solar/Earth Sheltered 27

Knodt Residence, Chaska; “The Store”, Chaska, MN; Kasak Residence, Champaign, IL; Anderson Concept IV, Attached Sunspace Program, Bayport, WI; Hultigran Residence, Victoria, MN

FREDRIC WEMLINGER AND ASSOCIATES, INC.
Box 519
1521 Northway Drive
St. Cloud, MN 56302
612/253-2100
Established 1968
Fredric Wemlinger AIA
Firm Personnel by Discipline
Architectural Engineering 6
Administrative 2
Total in Firm 8

Housing 40
Office Buildings 25
Medical 20
Churches/Worship 5
Solar/Earth Sheltered 10
Construction Management 10

Lutsen Mountain Village—Resort Condominiums and Townhouses; Lake Ridge Office Park—Office Condominiums, Eden Prairie; BurnHaven Atrium Office Building, Burns­ville; St. Paul Surgical Center, St. Paul, MN; Olverson Residence, Eden Prairie, MN; Eden Prairie Community Church, Eden Prairie, MN

TYSON ASSOCIATES, INC.
711 West Lake Street
Minneapolis, MN 55408
612/827-5484
Established 1977
Jay W. Tyson AIA
Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3

Housing 50
Office Buildings/Banks 50
Interior Architecture 15
Education 15

Addition to Red Cross Building, Minneapolis, MN; Telephone Building, Redwood Falls, MN; Phone Center Store, Town Square, St. Paul, MN; Interior Remodeling Midway Telephone Building; ESS Building for Northwestern Bell, Mpls; 450 Units of Housing Rehab, Sunn­er Field, Minneapolis, MN

RICK WHEELER ARCHITECTS
110 West 2nd Street
Chaska, MN 55318
612/488-6444
Established 1977
John L. Weidt AIA
Firm Personnel by Discipline
Architectural 2
Other Technical 1
Administrative 1
Total in Firm 4

Energy Consulting 70
Housing 27
Restoration/Preservation 3
Solar/Earth Sheltered 27

Knodt Residence, Chaska; “The Store”, Chaska, MN; Kasak Residence, Champaign, IL; Anderson Concept IV, Attached Sunspace Program, Bayport, WI; Hultigran Residence, Victoria, MN

JOHN WEIDT ASSOCIATES, INC.
111 W. Vine Street
Owatonna, MN 55060
612/253-2100
Established 1981
John L. Weidt AIA
Firm Personnel by Discipline
Architectural 2
Other Technical 1
Administrative 1
Total in Firm 4

Energy Consulting 70
Housing 27
Restoration/Preservation 3
Solar/Earth Sheltered 27

Knodt Residence, Chaska; “The Store”, Chaska, MN; Kasak Residence, Champaign, IL; Anderson Concept IV, Attached Sunspace Program, Bayport, WI; Hultigran Residence, Victoria, MN

ARCHITECTURE MINNESOTA
news, notes & opinions
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Minneapolis firm wins Missouri Law School design competition

The Leonard Parker Associates of Minneapolis, and McCoy, Hutchinson, Stone Architects of Kansas City have been selected to design the new School of Law at the University of Missouri, Columbia. The new 140,000 square foot law school building will include a working courtroom, administrative offices, classrooms and a 325,000 volume library. A brick and stone building, it will be sited between existing traditional and modern campus structures as a visual bridge between old and new architecture. Construction is slated to begin in the fall of 1984.

The high cost of excessive sprawl

According to a Metropolitan Council report, more than 60 percent of the energy consumed in the Twin Cities area is closely related to land use. Energy for residential, commercial and industrial buildings accounts for 23 percent of the area's annual energy consumption, while transportation consumes another 38 percent. The report points out that moderate increases in residential density and changes in housing unit mix could save from 28 to 40 percent of household energy demand for space heating and personal automobile travel. It recommends building not just high-rise apartments, but more duplexes, quad homes, townhouses, and low-rise apartments.

Coming events

On view at the University Gallery through May 8 is "Lars Sonck 1870-1956: Finland's Romantic Architect." The exhibition of twenty photographic panels and seventeen original drawings of Jugendstil/Art Nouveau features some of Sonck's most notable architectural designs including St. John's Cathedral in Tampere (above), the Helsinki Stock Exchange, and the Helsinki Telephone Company building. The exhibit is presented in conjunction with Scandinavia Today-Minnesota.

The Society for Industrial Archeology, which promotes the study and preservation of the physical remnants of our technological and industrial past, will hold its annual conference in St. Paul and Minneapolis, May 12-15, 1983. Program topics include the interrelationship of architecture and the industrial process, regional bridges, Cass Gilbert's engineering in Minnesota, and architectural and engineering drawings from the railroad collections of the Minnesota Historical Society. The Cream of Wheat building and Alfred Kahn's Ford Plant will be among the buildings of architectural and engineering interest toured. For additional pre-conference or registration information, call John Wickre (612) 296-6980.

The American Solar Energy Society Annual Meeting and Solar Technologies Conference provides the nation's only multidisciplinary forum on advances in the renewable energy field. It will be held in Minneapolis May 30-June 4, 1983. The conference brings...
together researchers, professionals and manufacturers working in the field to update them on technical advances and to discuss future market prospects of energy technologies. For more information on registration on a calendar of events, contact the American Solar Energy Society, 1230 Grandview Ave., Boulder, Colorado, 80302 (303) 492-6017.

**Fitness "chalet" is completed at Vinland Center**

A striking new structure reminiscent of a landmark barn has been built to house boating, skiing and fitness programs for the physically handicapped at the Vinland National Center. Designed by InterDesign, Inc./Thorsen & Thorshov Associates, the cedar-shingled facility occupies a waterfront site on the organization's 175-acre property at Lake Independence, Minnesota. The Vinland Center is modeled after a well-known health sports center in Norway and its development was initially assisted by a $200,000 grant from Norway. A primary purpose of the Center is to assist individuals with categorical physical handicaps or other disabilities to achieve an optimal level of health, as well as to assume increased responsibility for their own health.

**Twin Cities first to adopt guidelines for "noise zones" near airports**

After years of public debate on how to solve the problem of aircraft noise, the Twin Cities has become the first metropolitan area in the nation to adopt official guidelines for controlling land uses near its airports. The Metropolitan Council guidelines discourage construction of single-family homes, schools, churches and hospitals in "noise zones" close to the airports. New apartments, commercial buildings and indoor entertainment facilities will be approved if well insulated. In most areas, industrial construction will be allowed. Communities will be expected to amend their comprehensive plans and revise zoning ordinances, if necessary, to comply with land uses called for in the guidelines. They will be assisted by the council and the Metropolitan Airports Commission, which will develop a model zoning ordinance for the communities.

**One person's stress is another's zest**

A recent study conducted by the University of Michigan Institute for Social Research concludes that some people thrive on stress. A group of 700 Navy enlisted men changing from military to civilian jobs after twenty years of service was surveyed to test the "person-environment fit" theory developed by Professor Emeritus John French. The essence of the theory is: "When the resources and demands of the work environment do not fit the needs and abilities of the worker, the worker develops strain leading to eventual illness." The study found that job complexity, work load, role ambiguity, and underutilization of ability created strains which were expressed by job and marital dissatisfaction, low self-esteem, anxiety, depression, irritability and somatic complaints. The data showed that a higher degree of job complexity and larger work load were associated with lower levels of strain. Two of the strongest sources of stress were role ambiguity and underutilization of abilities.
such as McMaster, with nearly ten acres per floor, the main corridor could threaten to become 1,000 feet long. By turning it into a square—the "ring street"—we reduced the visual lengths to 250 feet. We introduced many elements to orient and divert a person using this street: courtyards which, like church steeples in a medieval town, help to keep one’s bearings, as well as to create a diversion through changing forms and varying light.

Still another important element in hospitals is the nursing unit. Here we have felt that the traditional unit, with or without a nursing station, has in fact created a physical barrier between the nurse and the patient in bed. Our approach has attempted not only to create a more efficient working pattern for the nurse, notably with shorter walkways, but also to establish the possibility of direct visual contact between the nurse and the acutely ill patient—without losing the possibility of privacy for each patient when needed. Maybe it is the Florence Nightingale ward revisited, but we feel it has been a vital step forward; indeed, it is a pattern that we have successfully repeated in many of the hospitals we have designed since McMaster.

The advantages of designing an environment that allows for adjustment in human efficiency cannot be underestimated. Some time ago a California study outlined that in any standard building the acquisition cost is 2% and its operating expense 6%—with the remaining 92% going for personnel cost. Not surprisingly, the study concluded, "A better working environment that improved worker effectiveness by only 6% would be cost effective, even if it quadrupled building costs."

All of the elements I have noted are tools to stem the flood of unknown future changes that tend to make health sciences centers obsolete before their natural life span has been expended. Clearly, it is important in designing such centers to make compromises that will serve to accommodate relatively unknown functions in the future. And if we accept the medical prognosis that health care is to improve the quality of life, then we must not forget to introduce an emotional quality into the health care environment that helps to reinforce an improved quality of life. The idea of an efficient, functional health care machine that automatically, on a mathematical scientific basis, spews out the health of a nation has been proven
to be the wrong prognosis: a dream that became a nightmare. By contrast the emotional response that society seeks, as found in the colonnades of the University Hospital in Augsburg, is not in conflict with functional needs but very much a part of them.

In Edmonton, for example, we separated a 1,000-bed hospital into a series of smaller 60-bed units with their own identity. Each achieves an independent hospital-like atmosphere with its own distinctive space, even its own kitchen facilities, in which a small group of people may relate to each other, contributing the personal care so essential in nursing sick people.

Such attention must also be extended to details in patients' rooms and waiting rooms, because it is at this level that people expect and search for quality health care. Such attention is not an architectural frill but a positive influence that will have as much impact on health care as the actual medical treatment. Statistics have shown, for example, that the mental state in which a patient enters the operating room has a measurable effect on his or her recovery rate. Can we then afford to neglect the waiting spaces provided (or, as in many cases, not provided) for patients waiting to be rolled into the operating room? Similarly, a respect for, and response to, human emotion must be developed in all other areas of health care if we mean to create a quality of service.

In the architecture of hospitals as elsewhere, form not only follows function but is also an expression of image. In fact, image may usurp function, as we can recognize in our desire to retain Victorian buildings and make function conform to their existing forms. Thus we see that systems are not the end in architecture but the beginning, in the same way that Gothic architects used a building system and transformed it into an emotional response.

What emotional response are we looking for today? Is it not to create an environment that responds to human needs? An architecture that allows us to be active and contemplative? Neither the inspiration of Gothic nor the monumentality of Renaissance, but rather an environment that enhances our life and manifests the equality and freedom of the individual.

The author is senior partner in the Toronto firm Zeidler Roberts Partnership/Architects. In addition to his international prominence as a designer of hospitals, he was architect for Eaton Centre and is currently designing major elements of Expo '86 in Vancouver, B.C.
The contractors listed here are professionals, many with decades of experience. They have the equipment, personnel and knowhow required to do the complete job, from removal of asbestos insulation from heating pipes, boilers, ducts and cooling systems, to installation of modern replacement insulation. Their work methods and results meet or exceed all OSHA guidelines and requirements.

Your Thermal Insulation Contractors have the answers to meet your need to know, whether it be safe asbestos removal, energy-saving tips on new installations, or complete cost appraisals.

They’re professionals, inside and out.

Contact Your Local Thermal Insulation Contractor

Paul W. Abbott Co., Inc.
2283 Hampden Ave.
St. Paul, MN 55114
612-645-5847

Amber Insulation, Inc.
11825 Ironwood Ave. North
Stillwater, MN 55082
612-429-7556

Central Insulation Company
P.O. Box 12648
St. Paul, MN 55112
612-636-6829

E & S Insulation Company
7100 Medicine Lake Road
Minneapolis, MN 55427
612-544-4133

Econ Insulation, Inc.
7308 Aspen Lane
Brooklyn Park, MN 55428
612-425-0066

Hickory Insulation Company
2300 Territorial Road
St. Paul, MN 55114
612-646-2911

Hippler Insulation Services, Inc.
P.O. Box 1141
St. Cloud, MN 56302
612-251-9394

Keller Insulation
1052 Osborne Rd. N.E.
Fridley, MN 55432
612-784-2285

KW Insulation, Inc.
5112 Hillsboro Ave. N.
Minneapolis, MN 55428
612-636-5129

Heat, Frost and Thermal Insulation Education Fund

766 Transfer Road, St. Paul, Minnesota 55114 • 612/646-2121
The Leonard Parker Associates
Project: Humphrey Building, University of Minnesota
Minneapolis, MN

TLPA is currently in the design development phase for the 135,000 square foot building to house the Hubert H. Humphrey Institute of Public Affairs and an addition to the School of Management. Located at the gateway to the University of Minnesota West Bank campus, the stepped edge on the northwest complements the Law School. The design will facilitate and enhance academic programs while making visitors aware of Institute activities organized on three levels around a central public forum. The HHH Memorial Exhibit Hall is a major component of the building.

Opus Corporation
(formerly Rauenhorst)
Project: Opus Center
Minnetonka, MN

The cornerstone building in Opus 2, Opus Center with its natural Minnesota quarried split-face stone, bronze-tinted glass, and copper roofing, cuts a stately profile. Sitting atop the area’s highest point on a 20-acre site, the 10-story tower overlooks a quiet pond on one side and the downtown Minneapolis skyline on the other. Opus Center was designed and built by the Opus Corporation with Ben Thompson as design consultant. Opus corporate offices are housed on four floors of the tower. (612) 936-4444

Arvid Eilness Architects Inc.
Project: Trinity Lutheran Church & School
Wausau, Wisconsin

The two story, 40,000 sq. ft. school addition to an existing church houses classrooms, library, cafeteria, gymnasium and support facilities for grades K through 8. The addition incorporates a spacious narthex that acts as the link between church and school. Offices on the lower level are arranged for shared church/school administrative functions. The school is designed for future expansion and will be constructed in phases to accommodate demolition of an existing school building on site. Materials match the existing church red brick and stone. Completion expected early 1984.

Patch, Erickson, Madson, Watten, Inc.
Project: Scott County Addition
Shakopee, MN

Scott County has approved a 24,684 sq. ft. third floor addition to their courthouse to be occupied in part by the Human Services Department. The addition will be an extension of the limestone veneer facade. The plan provides landscaped...
FOWLER HANLEY, INC.
PROJECT: CEDAR WOODS COURT TOWNHOMES MINNEAPOLIS, MN

Located just north of Cedar Lake, the 12 multi-level units cluster around a central courtyard. The units include tuck-under garages, bay windows, and an exterior of brick and horizontal siding. Construction is planned for the summer of 1983.

MEYER, SCHERER & ROCKASTLE, LTD.
PROJECT: PARK GROVE BRANCH LIBRARY COTTAGE GROVE, MN

MS&R was commissioned to design this new regional library which will serve Washington County. The project is 20,000 sq. ft. and makes extensive use of natural lighting. Construction is slated to begin in the fall of 1983.

The Leonard Parker Associates
Project: University of Missouri Law School Columbia, MO

TLPA, in association with McCoy, Hutchinson, Stone Architects of Kansas City, Missouri, is designing the new 140,000 square foot Law School building in Columbia, Missouri. The firm was selected for the project after winning an invited two-phase design competition sponsored by the University of Missouri. The brick and stone building will include a working courtroom, administrative offices, classrooms and a 325,000 volume law library. Sited between existing traditional and modern campus structures, the building will be a visual bridge between old and new architecture. Construction is slated to begin in the fall of 1984.

Architectural Resources, Inc.
Project: Viking Amphitheater Park Rapids, MN

The Headwaters Society in conjunction with Architectural Resources, Inc. of Hibbing and Duluth is currently working on Viking!, an epic drama amphitheater. The complex is located on Birch Lake in the Park Rapids area. The complex will contain an entrance pavilion, amphitheater seating over 1600 people, related backstage support functions and public functions, and an actors' village.

The script, written by an Ohio consultant, relates the story surrounding the first contact between the native Santee Dakotah Indians and Viking explorers. The architecture will reflect typical Viking forms while remaining contemporary in its interpretation, employing tensile structures to protect the public facilities for the amphitheater and the actors' village.

The Headwaters Society is now raising funds to promote this complex which is seen not only as a tourist attraction but also as a cultural outlet for local theater groups such as Bemidji State College. (218) 727-8481

Coming Soon announcements are placed by the firms listed. For rate information call AM at 612/874-8771.
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Errata

This portrait of Winston and Elizabeth Close, published in the January/February 1983 issue, was taken by photographer Judy Olausen. AM regrets the omission of the credit.

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

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

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