CALL ON AN EXPERIENCED TEAM

For more than 25 years the people at Fred G. Anderson have worked with architects and interior designers throughout this area. Their knowledge and experience in the wall covering field is unsurpassed. Behind this team is the largest stock of commercial wall coverings in the midwest. Anderson's also maintains a large library of wall coverings and can offer prompt delivery on most items.

Fred G. Anderson's Miracle Mile Studio is your one source for service and quality.

For wall covering call on an experienced team.
Fred G. Anderson, Contract Department.

Fred G. Anderson, Inc.
Contract Department
5217 Excelsior Blvd.
Miracle Mile
St. Louis Park, MN 5542
(612) 920-5620
CONTENTS

Editorial
Minnesota's Quality of Architecture 5

Comments
A Reasonable Law 7

Architecture at a Glance 11

The Architect as Statesman 15

Campus Planning: The Process is the Product 17

Building Codes: Blessing or Curse 21

Old and New Architecture 25

Directory of MSAIA Members 27

To Care and to Plan 1978 39

Who's Who in the Construction Industry 78

Directory of Firms 84

Directory of Governmental Organizations 92
“Sure, cost is a big factor. But there are more reasons than that for using ready mixed concrete in high rise buildings.”

Charles McGough, President, McGough Construction, St. Paul, with Vern Jellum, job superintendent

“At McGough Construction, because of our experience, we’re probably more interested in jobs involving monolithic concrete and masonry, or a combination of the two.

Poured concrete has a lot of advantages. Cost and time are always big factors nowadays. But, personally, I think one of the primary assets of the concrete building is its fire-resistance.

If I were occupying a building, or even constructing one for someone else, I would feel much better knowing it’s basically a fireproof structure.

Another one of the unique features of concrete is its appearance. Many people look at concrete and expect it to look like plaster. But Marcel Breuer, one of the outstanding architects in the world, has the idea that concrete should look like concrete. He wants the form marks to show, the knot holes, and everything. That’s the coming thing.

Once the architect decides on concrete, the next step is choosing the kind that will be most effective. When we built Booth Manor, a residence for the Salvation Army, a post-tensioned system was used in the floor slabs. This eliminated drop beams, which are costly to form, and enabled us to use a highly economical flying form system.

Only 5,500 cubic yards of concrete were used for the 21-story structure. The early strength of our concrete mix, combined with post-tensioning, allowed thinner slabs, without the dead weight of thicker, non-reinforced slabs. Average time from pouring to post-tensioning was about three days. And since we lost very little time on account of rain, we were able to pour 21 supported slabs in 84 working days. That’s really something.

We used three different concrete mixes on the job. These were dictated by weather conditions, weekend curing time, and whether or not we needed an especially fast cure to permit two pours from Monday through Friday.

Shiely engineers were able to design the mixes to give the results we needed. We just called the Ready Mixed Concrete dispatcher, told him what we needed, and let him take it from there.

You expect someone with the Shiely name behind him to turn out a high quality product. You just know it’s going to be good.”
Minnesota’sQuality ofArchitecture

Minnesota’s quality of architecture is high and this is due to an enlightened community and a competent profession. The community is residents, business leaders, civic leaders, and an enlightened legislature; the same legislature which in 1973 authorized preliminary plans for a Capitol Building Annex. As a result of this action the Capitol Area Architectural Planning Board, in 1976, conducted the National Terratectural Competition—Minnesota II.

Some 80 years earlier, a similar national competition had resulted in the selection of Cass Gilbert’s design for the State Capitol Building which still stands. An open architectural design competition is a costly and time-consuming means of selecting an architect. It is costly for the client in terms of expense and time. It is costly for the profession to the point of despair. In 1893, as in 1976, the decision to select an architect by this means was based on the desire and the conviction that only in this manner could the best of all possible designs be obtained. The Minnesota State Capitol Building has become part of our architectural heritage. It is unexcelled as a symbolic and physical representation, albeit eclectic, of the seat of our state government. In 1893 and in 1976, the profession agreed explicitly and implicitly to submit its designs for judgment in the competition. Regardless of the considerable cost, each competitor was willing to submit his vision and his concept for judgment and to take the risks and accept the jury’s decision.

Minnesota II received 258 entries from across the nation. It can conservatively be estimated that each submission cost the architect an average of $12,000. The list of competitors includes the most outstanding architectural firms from across the nation. The roster of these firms indeed reads like Who’s Who in the forefront of architecture today.

What made this competition so compelling was not the prize money, not even the chance of winning, but rather the requirements of the competition. For the first time ever, a national competition required the proposed design to be underground. The State Capitol is a monument. What was needed now was more space which could in no way interfere with the view of the monument. Is this non-architecture? Is underground architecture architecture? What a question! What an opportunity! From these 258 entries, the jury selected 5 finalists and asked them to develop the designs further. Anyone of the five final designs could be built and the state would be enriched by it. The jury selected the superior design, a design which answered all the needs and, as we said before, did so creatively and with a vision that transcended the immediate requirements. The winning design is no dilettantish solution. It is the work of a
highly organized intelligence which carefully and methodically developed a design which would answer the question "Is underground architecture architecture?". In the hands of the likes of Helmut Jahn, underground architecture is architecture, it is great architecture. It sets high standards for the consideration and respect it gives the State Capitol Building and the Capitol Approach. It shows that it can work with and interpret civic symbols. It also shows that an underground building need not be a cell, a cave, a bunker; it can be a very humane environment, resplendent with all the spatial drama, interest and vistas of aboveground buildings. It also illustrates that architecture can have an interior quality which need not be projected, that external symbols are not mandatory.

From the point of view of the building as architecture, from the point of view of the interpretation of civic architecture, from the point of view of the resolution of the environmental technical resolutions of underground construction, the winning design for the Capitol Annex Building leads the way. By asking the nation's architects a question, a dramatic and timely question: a dramatic and timely question, a dramatic and timely question, Minnesota led the way in challenging the profession with all the spiritual drama and interest and vistas of aboveground buildings. It also illustrates that architecture need not be a cell, a cave, a bunker, it can be a very humane environment. We now have the opportunity to answer some of the state's and the nation's most urgent concerns in the areas of energy conservation and historic preservation. Like our State Capitol Building, this proposed landmark building will serve the state for many, many generations to come.

—Bernard Jacob
The Minnesota Society American Institute of Architects and almost the entire construction industry is seeking legislative support for the restoration of the statute of limitations. In reality it is a housekeeping change of approximately 15 words in a statute that had previously been passed by the Minnesota legislature in 1965. In 1976 the Minnesota Supreme Court handed down a decision which negated the original intent of the present Minnesota Statute of limitations as it applies to architects, engineers and contractors.

The court rules that there was a language flaw in the law as written and that, as written, it applied only to cases involving third parties and not also to cases arising between the owner and the architect, contractor, engineer, etc. In handing down the decision, the Supreme Court indicated that language changes would need to be made for the law to properly apply, as it was intended, to the relationship of architects, contractors, subcontractors and materialmen with owners.

The change we are seeking is the minimal language necessary to restore a ten-year statute of limitations. Actually our first preference is to have a six-year statute of limitations. By that we mean that those in the construction industry would be responsible for a building for six years after its completion and occupancy. This is identical to the Wisconsin statute of limitations.

Simply described, a statute of limitations is a concept of law which goes back to English Common Law. It provided that, barring fraud, an individual or organization is legally responsible for an act for a specified number of years. Such statutes are intended to "provide a means of bringing repose to potentially troublesome matters after a suitable length of time so that social order may proceed and to enable a person or organization to be free from onerous legal responsibility beyond a reasonable length of time." It is really a matter of equity and fair play. Also, passage of time tends to deprive those involved of information, personal recall, witnesses and other means of defending themselves.

Most importantly, there is still an avenue of redress or means of recovery for injured third parties. Once a design professional completes his responsibility, the control of the premise is often considerably altered by the owner or user. This in turn alters the structure.

In addition, improper maintenance and numerous other factors occur beyond the responsibility of the contractor and design professional.

Statutes of limitations now exist in 45 of the 50 states. Thirty-four of those states have a statute of limitations of less than ten years, which is superior to Minnesota. Only two states have a statute of limitations in excess of 12 years. In reality, until the Minnesota legislature restores the statute, Minnesota's construction industry is responsible for its buildings for six years from forever. Under law, Minnesota provides a six year statute of limitations from the time of injury. In almost all other fields, for example, medical, dental, professional, etc., the completion of an act and injury occur almost simultaneously, whereas an alleged defect in a building or other structure may cause an injury or damage at an unpredictable distant time in the future. As mentioned, our concerns are:

1. Without a proper statute of limitations, hundreds of small architectural, engineering, contracting and subcontracting firms' financial viability will be seriously jeopardized.

2. Industry professional liability insurance protection, which has already risen at a rate equivalent to that of the medical profession, will need to be carried not only by all existing firms, but by everyone in the profession who retires.

3. The heirs and successive owners of all construction industry enterprises will be liable indefinitely and responsible for buildings constructed by their predecessors. In fact, Cass Gilbert's heirs would now be liable for defending themselves against any action brought by an individual who claimed he was injured by a defect resulting from the design of the Minnesota State Capitol.

4. The costs of legal defense are excessive, not to mention the tremendous interruption and time commitment which must be spent in defending erroneously brought suits. It is only fair that matters be laid to rest after a reasonable length of time.

5. Matters not legally laid to rest remain potentially vexing problems for years.

6. Thus, the protection offered members of the Minnesota construction industry, their families and heirs in-
volved in the construction industry is considerably less than other states.

Therefore, we propose the following:

1. That modest language changes be made to correct the language flaws in the present statute and to restore the intent of the original statute passed in 1965.
2. That, if possible, we consider reducing the ten-year statute of limitations to six years.
3. That the statute as rewritten, be reviewed to ensure that it is broad in coverage and that, to the degree possible, it will meet the constitutionality test.

Conclusion

We believe that a good statute, which permits the design professions and the construction industry to practice and work confidently within a reasonable legal liability environment is indeed in the public interest.

Daniel J. Sheridan
"We'll outservice any wallcovering supplier in the 5-state area."

— Bob Katchmark, Hirshfield's Contract Sales

That's our commitment to you, and to every architect, contractor and designer in the Upper Midwest.

From Hirshfield's Contract Sales. Bring us a commercial wallcovering job and we'll give you service that won't quit.

Service that won't quit until the job is done exactly the way you want.

By that, we mean:

• Prompt response to your phone calls.
• On-site consulting and measuring for rollage.

Showroom for your use. Plus 5 other showrooms in the metro area. We're out to win your next wallcovering contract by outservicing the competition. Give us a call at (612) 370-2626 and we'll show you what we mean.

Hirshfield's... the Twin Cities' largest and most complete decorating products supplier... since 1894.

Contract Sales Showroom: 824 Hennepin Avenue, Minneapolis. Hours: Mon.-Fri. 8:00 A.M.-5:00 P.M. Telephone: (612) 370-2626.
Introducing the tile showroom with a total approach
Room Settings / Product Selection / Professional Services

Research among architects and designers identified the need for a visual center where a wide range of better tile could be "seen and touched" in a variety of room settings and display vignettes. A place where current professional preferences in product, pattern and color could be carefully examined in one aesthetically pleasing location. The result is minnesota tile sketchbook.

We invite you to visit. Professionals who have been here say our selection has been very beneficial in their design planning...and our displays a most appropriate setting to bring clients. Furthermore, our service has proven to be time saving when meeting their specification and delivery requirements.

For further information CALL (612) 925-2070 or write minnesota tile sketchbook at 7101 France Avenue South, Edina, MN 55435

minnesota tile sketchbook
WE COLOR YOUR THINKING
Alkhobar

Architects Plus, an architectural and interior design firm from Faribault, will be acting as design consultants on a shopping center complex in Alkhobar, Saudi Arabia. The complex will house an automobile dealership, offices, bank, service facilities and a general merchandise center, covering 175,000 square feet. The firm was selected as a result of its understanding of pre-engineered building systems which will be utilized on the project to allow almost total fabrication in the United States, with fast erection in Saudi Arabia by a minimal crew of skilled labor.

Appleton

Work has been started on a new senior citizens housing development in the community of Appleton. Designed by the Minneapolis firm of Hustad and Pontinen Architects, Inc., the 37-unit building will contain 34 one-bedroom units and three two-bedroom units and completion is scheduled for summer.

Chaska

The biggest construction project in the Chaska area in the last three years is underway at the site of the Quali-Tech Products, Inc., plant in the Jonathan Industrial Park. The project, designed by Roberts Architects, is a 35,000 square foot addition to the existing building. Cost of the project is $1.2 million including equipment, remodeling and debt retirement. Completion is scheduled for March 15.

Coon Rapids

The most sophisticated and scientifically advanced testing facility for snowmobiles is under development at the site of the former Minnesota Dragways in Coon Rapids. Designed by GK Design International of Los Angeles and the Saint Paul firm of Bergstedt, Wahlberg, Berquist and Rohkohl, the facility will be owned and operated by Yamaha Motor Corporation, U.S.A. The site consists of 160 acres with a straight track, an oval track and a quarter mile sound emission track. A new building will also be constructed to house engineering and research personnel.

Gaylord

Stanley Fishman and Associates of Saint Paul, have designed a new 31-unit apartment building for the community of Gaylord. The three-level building will provide several floor plans of both one and two-bedroom apartments along with several units designed especially for handicapped persons. Completion is scheduled for spring.

Grand Marais

Architectural Resources, Inc., Hibbing and Duluth, have been working overtime lately on a number of projects in northern Minnesota and Wisconsin. Currently under construction, for example, is the conversion of an oil burning heating plant to a wood burning boiler installation for a school in Grand Marais. The design will take advantage of wood as an abundant local fuel supply and the actual installation work will include fuel storage, fuel transfer firing equipment, and boiler and distribution systems for both steam and hot water connections to existing buildings. Also under construction is a new tribal office and social services building for the Red Cliff Band of Lake Superior Chippewa Indians at Red Cliff, Wisconsin. Plans call for a two-level structure with the upper floor for tribal offices and law enforcement functions and the lower floor for community services and staff. Both levels are accessible with barrier-free-on-grade entrances.

Other firm projects include a $2,500,000 single residence housing projects at Red Cliff, consisting of 40 single family residences on an 80-acre site and a ten-unit apartment building and community center; three visitor centers for Voyageurs National Park; and a school addition and government building for the Bois Forte Indian Reservation at Nett Lake.

Hastings

The Twin Cities firm of Adkins Architects has been hard at work on plans for a new social service at the Government Center grounds in Hastings. The building's design and materials will be compatible on the outside with the existing center and the possibilities of using solar energy in the building are being considered for the 12,000 square foot structure.

Inver Grove Heights

Hungry residents of the Inver Grove Heights area will have a new eatery to patronize in the near future. Designed by Korsunsky Krank Architects, Inc., the restaurant is part of the Anchor Inn chain and is located on a three-acre site. The concrete block building will feature a nautical theme and part of the 12,000 square foot
Potential

50 years of wear, but you see only potential.
We see it, too.

Pella®
structure will contain banquet facilities for parties of 15 to 170 private rooms. There will be parking for about 220 vehicles with special accommodations for the handicapped.

Plymouth

Construction is in progress on a new city hall for the Minneapolis suburb of Plymouth. Located in the geographic center of the community, the finished product will be a two-level brick structure containing 31,000 square feet. Designed by Thorsen and Thorshov, Minneapolis, the plans emphasize open space and flexibility to meet changing needs through office landscaping, as well as energy efficiency and functional flexibility.

Proctor

The Proctor Area Federal Credit Union which started in a one-room office in a railroad yard building will soon be housed in a new structure designed by the Duluth firm of Raymond Blessener, Architect. The facility will feature a drive-up window, expanded teller service area and offices and a conference area. The institution dates back to 1934 and was originally restricted to railroad employees who deposited as little as 25 cents per week from their meager paychecks so that they could borrow to survive during the trying years of the Great Depression. The credit union has now hit an annual mark of $2 million.

Saint Cloud

Pauly Architects, Inc., Saint Cloud, has been commissioned as design architects for a new building for the Women and Children’s Medical Center, Saint Cloud. Preliminary design work has been completed on the 32,000 square foot facility which includes an OB-GYN section, a pediatrics section, a pharmacy and rental space.

Stillwater

The Minneapolis firm of Bissell, Belair and Green has been selected by the State Designer Board to work with the Department of Corrections in preparing plans for converting Stillwater Prison to a medium security institution for adult male felons. Opened in 1913, the Stillwater facility is the second state correctional facility to be physically converted to meet the changing needs in the criminal justice system. Construction is now in progress at the Metropolitan Training Center at Lino Lakes which will convert the facility to a medium security adult institution.

Superior

The Duluth architectural firm of Raymond J. Blessener, Architect, has announced Phase I groundbreaking ceremonies on a multi-million-dollar development in Superior, Wisconsin, by Midwest Radio Co., Fargo, North Dakota. The planned unit development, on a 53-acre site adjacent to the Saint Louis River, will include a neighborhood shopping center, multi-family apartment complexes, condominiums and single family residences. Completion of the first phase is scheduled for next fall. Anda Construction, Moorhead, are the general contractors.

Woodbury

The Bloomington firm of Ellerbe Associates, Inc., won an honorable mention in the commercial category of Owens-Corning Fiberglass Corporation’s sixth annual energy conservation awards program. The firm was cited for the design of Western Life Insurance Company’s corporate headquarters building in Woodbury, Minnesota. The $14.7 million, 35,000 square foot structure will contain offices, a data processing center, kitchen and cafeteria, when completed next June. Set on a northeast-southwest axis, with major entrances on the south and east, the building will receive maximum solar exposure and will also be less subject to Minnesota’s prevailing winter winds, keeping it warmer in cold weather.

Twin Cities

Old Fire Station 19, a University of Minnesota area landmark built in 1893 has escaped the wrecking ball and will soon become the new offices of LeBarron-Wold and Zenk-Sjoquist Architects who have agreed to preserve the exterior and renovate the interior. Purchased by bid for $56,200, the building will require about $200,000 for renovation according to architect Darrel LeBarron. Although stairways must be constructed, toilets replaced and insulation provided, the hardwood floor and firepole will be preserved. To make the venture successful, the two firms plan to occupy the top floor and lease the main floor and basement.

Architectural students from the University of Minnesota who travelled and studied in Europe last spring, will have an exhibition in the School of Architecture court January 23 through February 22. An opening of the exhibition will be on Monday evening, January 23. □
Wolmanized Pressure-Treated Lumber is Preferred by ARCHITECTS — HOME BUILDERS!

Wolmanized Lumber is Treated to Last a Lifetime for

- DECKS
- PATIOS
- FENCING
- HOME BUILDING

G. M. STEWART LUMBER COMPANY, INC.

A subsidiary of LONE STAR INDUSTRIES
421 JOHNSON STREET N.E. • MINNEAPOLIS, MINNESOTA 55413
UPPER MIDWEST'S LARGEST YARD

(612) 378-1520

Pressure-Treated Lumber
Jacob Burckhardt began his monumental *Civilization of the Renaissance in Italy* with a chapter titled "The State As A Work Of Art," wherein he offers the stimulating idea that the state is an artistic conception because it is the "fruit of calculation and reflection" based on objectivity and a relation between internal and external policies. More recently, in *A World Restored*, Henry Kissinger has written: "... the test of a statesman ... is his ability to recognize the real relationship of forces and to make this knowledge serve his ends ... ." Anonymous, obliquely, indirectly, he demonstrates that policy may be based on knowledge, but that its conduct is an art." While sound statesmanship is sometimes considered an art, it may be interesting to remember that successful design in at least one major area of the arts—architecture—can simultaneously often be treated as a rigorous exercise in statesmanship. Indeed, were more architects (and/or their clients) to adopt this perspective, perhaps higher and more humanly-oriented levels of architectural design might be achieved.

In this day of cross-disciplinary studies, numerous parallels are drawn between the creative processes in various fields, extending from art to science; nevertheless, the parallel between architecture and statesmanship is a particularly deep, wide-ranging, and potentially productive one. It is a parallel that treats not only creative process, but also method and intent.

Starting with aesthetic/philosophic considerations, it is clear that with both
architecture and statesmanship the problem is very much one of presentation. And in either case, presentation involves two publics: one inside, the other outside, the constructed state. While, per se, aesthetics and political reality require that a structure be in tune with itself, they concomitantly demand that it strike dominant, yet sympathetic chords with its environment. It is, therefore, clearly seen that questions of extreme delicacy confront the architect or statesman. For example, what is the ideal relationship between a structure and its environment? On the other hand, what is the practical relationship? How much of the supporting system should be revealed? How extensively and how forthrightly should the exterior express the interior workings? Rephrased: what kind of, if any, discrepancy should advantageously exist between image and reality? And then, just what should those who are inside be allowed to see of those who remain outside, and from what angle? Where, in trade terms, the glass, and where the iron curtain? Finally, what, if any, good philosophical principle determines the desired relationship between domestic and foreign posture?

Regardless of any inherent merits, philosophical premises ultimately must be implemented. Again the ways of the architect and statesman are similar. Abstractly, the beauty, power, and intricacy of the architect’s creation rest on his genius for spatial manipulation of masses, rhythms, textures, colors, light, and scale. All these elements, and more, artfully and artistically employed, allow the architect to achieve almost any aesthetic/psychological effect desired. But projecting ourselves now to the architecture of international politics, envision how the true statesman, like the architect, molds, coaxes, integrates masses, here the often inert masses of industry, commerce, high-to-low society; how he feels and works with the textures of prevailing thought and tradition, at home and abroad; how he nicely puts his nation before the world’s impressionable eye on a canvas convincingly colored fresh from propaganda’s palette. Appreciate how he responds to the rhythm of world forces with a dominating rhythm all his own, with timing and tact, with changes of pace that set the pace. See, too, where he lets light fall, and where shadows linger. The statesman, then, negotiates with the very essence of the architect’s material and means; if he is skilled, success and the State are his. But the final test is “scale”—the relationship man holds to the structure designed for him.

A building, and indeed a state, is an incredibly intricate, multi-dimensional construct, acting through time and space, of forces meeting from all angles of conflict. On the specific matter of structure, it would seem that a sturdy edifice, built to last, represents a total resolution of physical forces. The “architect” must perceive the nature of all usual and unusual pressures, both internal and external; he must know well the “strategy of conflict” and strategically place his supports, or supporters, knowing how they should behave, but always allowing for error. While the soundness of his architectural or political state requires a concerted effort by all supporting members, between the members themselves the “architect” must effect a subtle system of hierarchies, of checks and balances, to insure internal order. At any particular instant in time, the system must be statically equilibriated; but as time changes and conditions follow suit, a stable structure must be alert and able to adapt. Wherever feasible, the master builder will choose “elastic” materials; likewise, the true statesman will shape his policies so that Strength has as his vice-consul Flexibility.

Both statesman and architect operate through their respective disciplines ultimately to serve the needs of man. And no matter how abstractly beautiful or ordered their political or aesthetic structure may seem, it is meaningless unless it is in harmony with those who are within. Here the most profound aspect of architect as statesman is encountered. Well before the design process even begins, both architect and statesman must measure man. On the initial accuracy of their measurements, the ultimate relevance, strength, and beauty of their design will itself be measured. Be it a state or a statehouse, the inhabitant is Man, be he one or many; and in both cases, the problems are much the same, for in just one man can be embodied the numerous social, economic, psychological, and philosophical forces—and conflicts—that characterize a national or even international community.

Victor Koshkin-Youritzin is an assistant professor of art history at the University of Oklahoma. He has been a contributor to such leading scholarly periodicals as Art Journal and Gazette des Beaux-Arts.
Campus Planning:  
The Process is the Product

Clinton N. Hewitt  
Kenneth R. Stebbins  
D. Eric Wheeler

If Marshall McLuhan is to be believed when he tells us that in the area of communications, the medium is the message, then when it comes to campus planning, the process is the product. Stated another way, it is far more important to establish a planning process than it is to define a specific plan (product) which will almost surely be obsolete before the ink on it is dry. The process is dynamic while the product is static. The process invites participation while the product limits participation.

Many campus plans are product-oriented and only serve to fill a spot on the shelves of college administrators. These plans are highly static and therefore, do not provide the flexibility to deal with changing needs and an unpredictable future. During the early 1960's the product-oriented plan was a very popular instrument which has now proven to be inadequate. Today, many colleges and universities are struggling to change direction because of the inability to such plans to accommodate to new circumstances. To an alarming degree they have missed the opportunity to develop the type of physical environment that promotes the educational experience.

In the early 1970's, the University of Minnesota recognized that the projected growth of the institution required some type of coordinated planning effort. The firm of John Andrews Architects was given a contract. Its initial charge was to review the planning process so that order could be given to the unparalleled growth that was expected. As part of the review of existing policies and procedures, the consultants came to the realization that the University had no administrative structure for monitoring or managing the plan when completed. As a result, they went beyond their initial charge of developing the Plan itself and proposed a planning office structure which could oversee the management of the Plan over time. David Scott, a management consultant, was hired to develop this management structure which is essentially what exists today at the University.

There are no pat answers or standard formulae that will guarantee a successful planning effort. The planning process for any organization or institution is comprised of a unique set of circumstances that demands continuous careful assessment. The results of such an assessment should allow an organization to assemble the appropriate combination of methods to carry out the planning process. There are, however, certain basic guidelines or steps that will ensure that the planning process is responsive to inevitable changes and that it will accommodate continuous re-evaluation and refinement. This approach requires the initiation and establishment of procedures and strategies to achieve goals and objectives.

The Andrews/Scott team expanded their efforts to include the establishment of a planning process for the Saint Paul Campus as a component of a system-wide approach and the identification of methods, tools and information needed to maintain the continuing process. In developing the process, three basic assumptions were made: the future of University programs would be sufficiently predictable or coordinated well enough to make the planning effort profitable; the University had the ability to implement overall institutional planning in order to provide a contest for physical planning; and the University would employ a staff capable of implementing the physical planning process.

The Tactical Report is the first step in initiating a comprehensive long range development plan as part of the planning process. It serves as a general outline for the planning process, detailing the work tasks and identifying general issues and decisions that must be resolved early in the planning sequence. In simplest terms, the Tactical Report describes the overall work program.

A unique aspect of the "process" oriented plan is its promotion of participation by the user. Therefore, a key element of the Tactical Report is the identification and resolution of issues that are generated by concerned
groups and individuals both inside and outside the University. The accompanying task/sequence diagram graphically puts the planning process into the context of its participants and their various responsibilities.

The planning base inventory is the second step in the planning process. It documents current conditions and provides the basic data for the future phases of the process. It includes data on building systems, landscape and natural systems, transportation, services and utilities, housing, social recreation and commercial facilities, population and space predictions and program relationships.

The third step in the process—analysis and planning recommendations—represents the focal point of the planning process. It involves the analysis and evaluation of the information that has been assembled and the development of planning goals and objectives. It requires the development of planning criteria and strategies that will shape the physical content and organization of the campus. The refinement of the planning policies and directives and the development of the framework plan is the next step in the planning process.

The term "framework" is used to identify that part of the plan which will primarily function as the general guideline mechanism for the future development of the campus. It includes the strategies, design criteria and development options for physical planning. The strategies, criteria and options are related to a set of planning horizons and a broadly based system of user participation. An important aspect of the framework plan is that the actual physical forms should not
be given detailed consideration until the time of implementation. This will keep the plan and its options open within the context and restraints of current conditions and allow for maximum adaptation to unforeseen conditions or changes.

The final step in the planning process is the monitoring and implementation of the plan. This is an internal, self-evaluating planning mechanism that integrates the function of the various offices that are to be involved during the implementation stage. It includes the evaluation of the physical implications of academic and administrative decisions, the means of integrating the design of specific project solutions within the context of the overall planning goals and objectives, and a structure for continuously updating the framework plan based upon feedback and new information. The management of the planning process is very critical to achieving solutions that are consistent with the mission of the University. This requires the establishment of a series of levels of controls, the first being periodic major presentations to the central University administration. The second level involves regular review of projects by the Office of Physical Planning. The third level of control takes place through a periodic self-review at the University departmental level. An appropriate network of communication between these three levels of control is important to keep the planning process organic and alive and to prevent a transition to a static plan.

When the Saint Paul Campus Long Range Development Plan (L.R.D.P.) was being formulated, the campus was expected to experience significant growth in both enrollment and physical facilities due primarily to changes in existing programs and a shift of programs from the Minneapolis Campus. Therefore the development of the L.R.D.P. took on added significance in that it would establish how and where growth was to take place in order to provide the most effective campus environment. The accompanying three maps illustrate: (1) how the Saint Paul Campus looked in 1970 when the plan was being developed; (2) the concept plan for campus growth; and (3) the campus as it will look in 1980. Although much still needs to be accomplished to fully realize all that was recommended in the Plan, significant strides have been made to that end, graphically demonstrating that the planning process can work and that a quality environment can result.

The plan directed itself to a number of issues which, within the past few years, have begun to pull the Saint Paul Campus together into a cohesive whole. Land use and transportation form the basic “framework” for Campus development. The plan not only establishes what uses are to occur where, but also indicates densities of development and alternative locations for various land uses. An important and unique aspect of the plan is the development of a “Don’t Build” plan which very explicitly identifies those areas of the campus that have high intrinsic value that are otherwise unsuitable to build on. The preservation of the “mall” and plotlands led to their designation as “don’t build” areas.

The transportation element of the plan calls for the re-orientation of the campus from the west side (which conflicts with adjacent residential uses) to the east, where access can be accommodated efficiently and related more appropriately to major parking
facilities. Progress is slowly being made to this end and additional planning is being conducted to develop this concept and bring it into being.

The plan recognized that the Saint Paul campus possesses a unique architectural scale and quality. As a result, recommendations are identified which establish restrictions on building heights (new buildings are to be no higher than the height of the existing mature tree canopy), building materials (new construction should relate to existing materials, basically brick and campus character (the basic pedestrian scale of buildings should be continued). Recent examples demonstrating these recommendations can be found in the Classroom Office Building, Meats Sciences Building, and Animal Sciences/Veterinary Medicine, Phase I.

Expanding on the pedestrian orientation concept further, the plan recognizes the fact that the weather is a significant portion of the academic year. Therefore, the plan recommends a framework of pedestrian streets which serve to interconnect existing buildings and new construction with climate protected linkages. Recently completed buildings such as the McNeal Hall complex (Home Economics), the Classroom Office Building and Animal Sciences/Veterinary Medicine, Phase I, are good examples of the use of these streets. Future buildings such as the Student Center/Bookstore expansion, the Learning Resources Center expansion, and the Continuing Education Building will further build on this framework.

Since institutions continuously face the problem of growth and change, how to best meet these changing needs is a critical issue. To address this problem, the plan suggests a series of alternatives which must be considered when investigating how to provide new facilities. The plan clearly states that as a first approach, higher utilization of existing space must be considered. Recently, an additional alternative has been included which involves the leasing of space, temporarily, in areas adjacent to the campus. If this is inadequate, then remodeling of existing facilities should be investigated. If new construction is necessary, then infill construction between and adjacent to existing space should be evaluated, and only as a last resort should totally new facilities be considered. Examples of each of the above alternatives can be found on the Saint Paul Campus.

With a perspective gained through experience and the passage of years, several things concerning the plan have become clear. First, perhaps the best example of the fact that the "process is the product," is that the process originated by the John Andrews firm Scott team for the Saint Paul Campus Plan has served to guide the development of the Plans for the Minneapolis Campus and the Duluth Campus. The data base has obviously been totally different in each case, but the process has been used in each instance with little or no modification. Thus the original plan (process) has truly proven to be prototypical.

Second, it must be mentioned that the beneficial changes in the physical environment envisioned in the plan have not, and will not, happen by accident. While it must be regarded as a strength rather than a weakness, it is none the less true that it is not the nature of the plan to include specific solutions to environmental problems; the plan does not so much solve design problems as it establishes parameters which must be met in the solutions to those problems. Just how those parameters are met, however, can spell the difference between economy and waste, variety and monotony, delight and disappointment. With so much at stake, design quality cannot be left to chance. Creative, and conscientious designers (architects, landscape architects, engineers, etc.) are essential to the realization of the plan.

Third, an assumption underlying the development of the plan was that the process could be rational. As obvious as that might sound, it is not true with all plans. As a corollary, it must be assumed, or at least hoped, that the implementation of the plan will also be rational. This is dependent upon several factors, not the least of which is that those in a position to support the various constituent parts of the plan must do so with at least some understanding of the long range objectives of the plan, a commitment to see it through, and a willingness to set expediency aside in making the decisions which lie ahead.

Clinton Hewitt is Assistant Vice President for Physical Planning at the University of Minnesota. Kenneth Stebbins is Planning Coordinator and Eric Wheeler is an Assistant Director in the Office of Physical Planning at the University of Minnesota.
Building Codes: Blessing or Curse

James I. Lammers

The proliferation of building codes and regulations has had perhaps a more profound effect on architecture within the past dozen years than any other single factor. A building today must be designed to meet the criteria of numerous agencies, regulatory bodies, and code officials. The impact of these regulations very severely affects what the architect can and cannot do in terms of the design of buildings and building components. Construction cost ramifications are enormous and the burden placed on the architect effectively reduces the time available for design.

One classic example of the impact of codes on building design is the "Wedding Cake" office building in New York City which steps back away from the street as the building increases in height. This results from a requirement in the zoning code designed to permit light to penetrate the deep canyons created by the skyscrapers. Tradition has it that one architectural firm became expert in defining the maximum building area which would fit within the prescribed zoning code envelope. This firm was the office building specialist in New York City for decades.

Another example of code impact on design is the disappearance of the "split entry" building and/or the appearance of ramps for the handicapped. Codes insuring accessibility for handicapped persons require the main level to be on grade or accessible by a ramp sloping no steeper than 1 foot vertically for every 12 feet in length (a 48 foot long ramp is required for a main floor 4 feet above grade). Numerous other examples exist since various codes govern everything from the size and shape of windows to the location and number of stairways.

The impact of code requirements on construction cost is difficult to measure. The figure most often heard in the industry is 10% added to the base cost by strict adherence to building code provisions. This estimate is probably conservative.

Seemingly, the abundance of building codes and guidelines would make the architect's job more simple: he need merely conform to all codes and his building cannot help but be safe and functional. However, this is far from the case. Building codes are not static; they change on a regular basis as new editions are published. Oftentimes the code will reverse itself and declare something legal which previously was illegal. Requirements of one code may be in conflict with or more stringent than another. Not only must the architect determine which agency enforces which code with respect to the project at hand, he must also work with various code officials to interpret sections of the code which may be ambiguous or not directly applicable to a particular design. The architect must ask the enforcing agency to be reasonable since it is quite probable that if all pertinent codes were enforced literally, it would be impossible or too costly to erect the building.

Why do we have building codes and regulations? These laws find their basis in the responsibility of government units to provide for the health, safety and welfare of the general public. Codes such as those written by the National Fire Protection Association (NFPA) focuses on life safety and fire prevention in buildings. Other requirements,
such as the HUD guidelines for design of single family and multi-family structures, prescribe the size and layout of living spaces and control design items ranging from the area of window in a living room to the amount of counter-top space and arrangement of cupboards in a kitchen.

Energy codes are concerned with reducing energy consumption in buildings and handicapped accessibility. Codes aim to make buildings workable for handicapped occupants. All codes reach for the laudatory goal of pro-

<table>
<thead>
<tr>
<th>CODE</th>
<th>ENFORCING AGENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUD4900.1</td>
<td>Minneapolis/Saint Paul Area Office, U.S. Department of Housing &amp; Urban Development</td>
</tr>
<tr>
<td>HUD4910.1</td>
<td>and Minnesota State Housing Finance Agency</td>
</tr>
<tr>
<td>HUD4930.1</td>
<td>State of Minnesota</td>
</tr>
<tr>
<td>OSHA/Construction Safety &amp; Health Regulations Department of Labor Occupational Safety &amp; Health Administration</td>
<td>Department of Labor &amp; Industry</td>
</tr>
<tr>
<td>Uniform Fire Code International Conference of Building Officials</td>
<td>Minnesota State Fire Marshall's Office</td>
</tr>
<tr>
<td>State Safety Glazing Law (HF 874 ch 74)</td>
<td>Enforced as State Law, violation is a misdemeanor.</td>
</tr>
<tr>
<td>Minnesota Reg. MHD 151 Rules &amp; Regulations of the Minnesota State Board of Health Lodging Establishments &amp; Food &amp; Beverage Establishments</td>
<td>Minnesota State Health Department</td>
</tr>
<tr>
<td>Minnesota Reg. MHD 44 Rules &amp; Regulations of the Minnesota State Board of Health Construction, Equipment, Maintenance, Operation &amp; Licensing of Nursing Homes &amp; Boarding Care Homes</td>
<td>Minnesota State Health Department</td>
</tr>
<tr>
<td>Minnesota Reg. MHD 411 Rules &amp; Regulations of the Minnesota State Board of Health Freestanding Outpatient Surgical Center Rules</td>
<td>Minneapolis State Health Department</td>
</tr>
<tr>
<td>Minnesota Reg. MHD 120 Rules &amp; Regulations of the Minnesota State Plumbing Code</td>
<td>Minnesota State Health Department &amp; enforced under Minnesota State Building Code</td>
</tr>
<tr>
<td>Hospital Accreditation Manual Joint Commission on Accreditation of Hospitals</td>
<td>Joint Commission on Accreditation of Hospitals</td>
</tr>
</tbody>
</table>
moting a safer, higher quality environment.

Who enforces codes? Generally "model" national codes, written by NFPA or the International Conference of Building Officials, etc., are adopted and enforced by various local governmental agencies, although these agencies sometimes write their own codes (See Box). Local zoning codes and ordinances, which govern land use, are written and enforced by municipalities, townships or sometimes counties.

The Minnesota State Building Code adopts, by reference, several national codes such as the Uniform Building Code (See Box). A specific edition of a national code is adopted after going through a public hearing process and amended if necessary to suit local conditions. Don Pates, an architect, presently heads the Building Code Division of the State Department of Administration. The Minnesota State Code is somewhat unique in that it applies to all areas of the state but is enforced by local building officials. Previously each municipality, county or township enforced a wide variety of codes or in many cases had no code at all.

The federal government has gotten into the act through OSHA (the Occupational Safety and Health Act of 1970) as well as HUD and HEW requirements which require compliance with HUD regulations or life safety codes as a stipulation for obtaining federal mortgage funds or to be eligible for reimbursement through Medicare and Medicaid.

The preponderance of codes has or will lead to additional specialization within the architectural community. New York, for instance, which has a city code the size of the Manhattan telephone directory, has had for a number of years architects who specialize in interpreting the code and gaining code approval from various city agencies.

The retroactive enforcement of building codes has created a new market for architectural services. For instance, the Joint Commission on Hospital Accreditation, which surveys member hospitals for code conformance, makes compliance a necessary condition for accreditation. This means that a facility must be brought up to date and oftentimes this results in hiring an architect to survey the facility and develop a plan of action to correct the deficiencies. The Minnesota Health Department also mandates retroactive compliance with various state and national codes prior to licensing and certification of health care facilities—including nursing homes as well as hospitals.

Codes have tended to develop a bandwagon effect in that proponents of various causes have independently tried to legislate their own concerns into law. These concerns range from providing sprinkler fire protection in buildings to requiring automatic smoke detection devices. In the past, national code-making bodies have often been dominated by representatives of the electrical supply and sprinkler industries and their motivations have been questioned by building owners and managers.

Code compliance usually involves researching code requirements and meeting with various agencies enforcing different codes. The process is extremely time consuming and the time the architect spends in code related work has the effect of reducing the time available for the design of the project.

No one will argue that codes are not required. However, a strong case could be made for a simplification to reduce the number of codes and/or enforcing bodies. The State Plumbing Code, for example, is enforced by the Minnesota State Health Department and also by local building officials under the State Building Code. Municipal Health Departments often have additional requirements. Such overlapping is costly not only to the building owner who pays for the architect's time, but to the tax payer as well.

As the architect designs buildings to conform to the various codes, he must walk a narrow line: on the one hand he is vitally concerned with the ultimate safety and well-being of the occupants of the building, on the other hand he is concerned with the total cost of the project. He must search for an optimum design much as a structural engineer designs a beam which will adequately support the load, but will not be over-designed to the point of being wasteful. The architect must satisfy the many code provisions without adding unnecessary cost to the project.

James Lammers AIA is a principal in the firm of Centrum Architects Inc., Minneapolis, which specializes in design for existing medical facilities. Mr. Lammers is also a member of the National Fire Protection Association.

James Lammers AIA is a principal in the firm of Centrum Architects Inc., Minneapolis, which specializes in design for existing medical facilities. Mr. Lammers is also a member of the National Fire Protection Association.
A $10 billion umbrella.

That's what "all-weather" construction is. $10,000,000,000 is what the nation pays year after year for construction "down time" resulting from bad weather. And that is what the nation can save by protecting the bricklayer and other construction workers from bad weather.

Any construction site can be protected with simple and inexpensive "all-weather" construction techniques. Basically, all or a portion of the home or building is enclosed with inexpensive materials such as clear plastic sheeting and heated with space heaters.

These techniques—proven in Canada, Northern Europe and some cities in the United States—can increase efficiency of the building process, hold down costs, and add the equivalent of 35,000 trained bricklayers to the nation's limited pool of skilled craftsmen.

The "all-weather" umbrella can put you into your new home or office much sooner—sometimes months sooner.

Building craftsmen, contractors, architects, and engineers are ready to use the "all-weather" umbrella—when building clients, public agencies, and home builders want them to.

In building, time saves money. Save yourself some of both.
Old and New Architecture—Design Relationship, Or: The Good and the Bad News From Washington

Joanna Baymiller

For the architect confronting the controversial and increasingly visible problem of the relationship between old and new architecture in historic settings, a recent conference in Washington D.C. offered some much needed encouragement. Jointly sponsored by the National Trust for Historic Preservation, the Washington metropolitan chapter of the AIA, and the Society of Architectural Historians in Washington, the well-organized and tightly packed program was attended by an audience drawn from all levels of the profession and all parts of the country.

Two days of mild weather enabled participants to explore, on bus and on foot, a city that would seem to offer more examples, outside of New York, of both the profound and the profane in architecture. The overwhelming impression remaining is one of redundance.

The two-day forum focused on the range of problems involved in designing compatible new architecture in old areas, adjacent to significant period buildings, or in the context of an existing strong architectural fabric. The discussions focused on historical or current theoretical design approaches; major problems and advantages of design ordinances; and successful and unsuccessful designs representing a variety of methodologies. Conference speakers included many noted professionals with a wide range of experience and an equally wide range of opinions.

To many, it must have seemed as if the conference was plagued by a Cassandra who had little more to tell the profession than to warn it to watch out, the design review commission’s coming—and those mundane mundanists are armed with nothing but red pencils ‘or your blueprints! Indeed, as Salem, Massachusetts attorney and city solicitor William Tinti pointed out: “We have observed in the last few years only the warning light of design review.” Guidelines, design standards, and historic review boards are clearly an increasingly important part of the picture, particularly in historic districts. Where court decisions in the recent past have been handed down, they suggest strongly that the balance is shifting from private to public rights. Thus, where commissions do exist and have been empowered to enforce standards for design, the law will probably support them.

Given that, the question then becomes to what degree architects and architectural organizations will step to the front of the line and help not only to develop standards, but to facilitate citizen and community understanding of the design process. It means, to some degree, a different role for the architect—that of participant and collaborator in design, rather than bringer of the stone (or glass) tablets. It means not making a statement in cases where one is not called for.

If this seems discouraging, the other side of the coin is that a truly wide range of options is still possible. There was evidence of this fact in the number of architectural vocabularies represented by the “case studies” speakers—which ranged from the relatively pragmatic work of Charles Tseckares, of Boston, to the more abstract/historical classicism of Michael Graves, all the way to the admittedly whimsically theatrical building ensembles of Louis Sauer. All of these solutions, in their contexts, worked. None, interestingly, was imitative.

This is not to say that the range of options did not provoke controversy. Admittedly, there was a great deal. There probably always will be. This became very clear during an evening of “good and bad examples” slides provided by the conference participants and commented on by a panel that included Giorgio Cavaglieri and Jean-Paul Carlhian. Carlhian countered the accusation that architects ignore their surroundings by stating that at times it is impossible to respect them. Not only did the panelists disagree—but so did the conference—on what solutions were sympathetic, which were unsuccessful. It became clear, however, that “successful” buildings, both additions to and neighbors of older buildings, worked for reasons other than successfully connecting the dotted lines provided by historic district commissions or following precise guidelines related to building height, mass, color, texture, fenestration, and form.

Some of the worst solutions obeyed the rules to the letter. They failed because they didn’t breathe any life of their own.

What should be challenging, and encouraging to architects, is that if any rule emerged, it was that there is no single banner to hoist—no one philosophy, or formula that will manufacture the right solution. The rules are simply an outline; guidelines will not prevent bad design; neither, unfortunately, will they assure good architecture. Only the architect will. What is important is the process—one that is meaningful to the architect and translatable to an increasingly more participatory citizenry that not only seeks acceptable solutions, but demands superior ones.

If contemporary architecture in old settings is to evoke meaningful and lasting metaphors of its own, establish continuity, provide utility and prolong life to adjacent structures, it must transcend rules and guidelines. And this is the province of the architects’ imagination and sensitivity. At stake is no less than the vitality of our communities.

Joanna Baymiller is a regular contributor to Architecture Minnesota and other reviews. She concentrates particularly on the urban environment and architecture.
How New Jersey Saved $12,000,000

In New Jersey in 1976, contracts were let for 51 public construction projects in the range of $100,000 or more. By law, all publicly financed construction in New Jersey must call for both separate and single bids. In 48 of last year's 51 projects, the separate bids were lower; 9.7% lower than the total amounts submitted on a single contract basis. Because of separate bids, New Jersey taxpayers were saved $12,204,284.* It follows that proportionate savings can be achieved in private construction. That's why architects, engineers, and owners should make the comparison. Separate the mechanical, electrical, and general construction bids, and save.

*Source: Mechanical Contractors Association of New Jersey. For complete details, write or call the Twin Cities Piping Industry Fund, Suite #304, 2829 University Ave. S.E., Minneapolis, Mn. 55414 (612) 378-7600.
Directory of MSAIA Members

ABBOTT, Roy, AIA
(Carolyn) Stegner, Hendrickson, McNutts, Sullivan, Route 11, Box 1, Brainerd 56401, 218-829-8765; Res. 1509 Pennsylvania Ave., Brainerd 56401, 218-829-0656, N.E. AIA Member

ABENDROTH, Urban L., AIA
(Judy) Vice President/Secretary, Matson, Wegelein, Abendroth, Architects, 5217 Wayzata Blvd., Mpls. 55416, 544-8941, Res. 525 Far Hill Road, Mpls. 55391, 473-1056, Mpls. AIA Member.

ABRAHAMSON, Bruce FAIA
(Victoria) Vice President, Hammel, Green & Abrahamson, 2675 University Ave., St. Paul 55114, 646-7501, Res. 4516 Fremont Ave. So., Mpls. 55409, 822-9091, St. Paul Fellow, Ethics

ACKERBERG, S.M., AIA
(Ann) Vice President, Rauenhorst Corp., Contracts/Documents

ACKERBERG, S.M., AIA

ADAMS, C. Culver
President, AEI Design, Inc., 212 Franklin Ave. W., Mpls. 55404, 871-7447; Res. 4952 Emerson Ave. S., Mpls. 55409, 823-2618, Mpls. Associate, Contracts/Documents

ALBERS, John W.

ANDERSON, Svend, AIA

ANDERSON, Algot B., AIA
Vice President, Grosz & Anderson Architects, Ltd., 304 2nd Ave. N., Grand Forks, ND 58201, 701/722-7205; Res. 1705 Riverside Dr., Grand Forks 58201, 701/775-5188, Mpls. AIA Member.

ANDERSON, David K., AIA
(Teresa) Technical Services Coordinator, Bruter Companies, Inc., One Sumwood Drive, St. Cloud 56301, 1-252-6262; Res. 218 Flamewood Drive, Sauk Rapids 55379, 1-252-5884, Mpls. AIA Member.

ANDERSON, Joel, AIA

ANDERSON, John C., AIA
Project Architect, Hammel Green & Abrahamson, Inc., 2675 University Ave., St. Paul 55114, 646-7501; Res. 6005 Parnell Ave., Edina 55424, 922-3569, Mpls. AIA Member. Arch. for Health, Office Procedures

ANDERSON, Lee F., AIA
(Cindy) Coordinating Architect, Saint Paul Public Schools, 740 York Ave., St. Paul 55106, 774-9631; Res. 4332 Fourth Ave. S., Mpls. 55409, 822-4403, St. Paul AIA Member. Public Education, Professional Development Programs

ANDERSON, Lonnie M., AIA
(Beverly) President, Dennis Batty & Assoc., 2814 Nicollet Ave., Mpls. 55408, 827-5993; Res. 2308 Fremont Ave. S., Mpls. 55405, 374-0960. Mpls. Assoc.

ANDERSON, William E., AIA
Vice President, Hammel Green & Abrahamson, 2675 University Ave., St. Paul 55114, 646-7501; Res. 1240 Churchill St., St. Paul 55103, 488-8000. Mpls. AIA Member

ANDERSEN, Svend, AIA
(Carolyn) Stegner, Hendrickson, McNutts, Sullivan, Route 11, Box 1, Brainerd 56401, 218-829-8765; Res. 1509 Pennsylvania Ave., Brainerd 56401, 218-829-0656, N.E. AIA Member

ARMBRUSTER, Robert C., AIA
(Kathy) Vice President, The Wold Association, 700 Osborn Bldg., St. Paul 55102, 227-7773; Res. 14009 Valley Creek Trail, Afton 55001, 436-5133. St. Paul AIA Member, Office Procedures.

ARMSTRONG, G. Clair, AIA

ASLANDIS, Stelios

BACKSTROM, Kenneth, AIA

BACKSTROM, Wilber A., AIA

BAKER, Edward F., AIA

BANK, Linda

BATTY, Dennis, AIA
(Beverly) President, Dennis Batty & Assoc., 250 Humboldt Ave. N., Mpls. 55405, 377-3716; Res. 5936 83rd Parkway, Brooklyn Park 55443, 560-5171, Mpls. AIA Member. Council of Small Firms.
Most people think of bleep or bleep as logical flat slab wall panel suppliers. May we suggest that you don’t overlook or underestimate WCPC as a logical supplier also.

Approximately 35,000 square feet of flat sandwich panel was produced for the handsome Ziegler Facility featured above. A light broom machine applied finish was selected.

Consider some of these advantages when selecting WCPC:

- Coil bolts instead of lifting loops.
- Select from various machine applied finishes.
- Prestressed elements both faces.

We invite you to call us for preliminary estimates and further information.
BERGER, Wilton

BERGET, Margaret

BERGQUIST, Lloyd, AIA

BERGSTEDT, Milton V., AIA

BERGQUIST, Robert Allan, AIA
(Kathleen) Architect, Larsen and Harvala Inc., 322 W. Michigan St., Duluth, MN 55802, 218-727-8446; Res. 6210 E. Superior St., Duluth, MN 55804, 218-525-6368. N.E. AIA Member.

BETHKE, Gary B.

BIDWELL, John, AIA

BIRCH, Merrill A., AIA
(Eleanor) Res. 1426 Holdridge Circle, Wayzata, MN 55391, 473-7146. Mpls. AIA Member.

BJORKLUND, Drew

BLACKLEDGE, Leland D., AIA

BLANCHARD, Duane E., AIA

BLESENER, Raymond J., AIA
(Phyllis) Raymond J. Blesener, Architects in Industry, 608 Glennwood St., Duluth, MN 55803, 218-724-5567; Res. 608 Glennwood, Duluth, MN 55803, 218-724-5567. N.E. AIA Member. Northeastern Chapter Secretary Treasurer.

BLAZEK, Louis J.
Mechanical Engineer, 730 St. Croix St. N., Hudson, WI 54016, 715-386-3395; Res. same. St. Paul Prof. Affil.

BLUMENTALS, Susan, AIA
The best buy at these shopping centers is FABCON


Worthington Mall, Worthington, Minnesota. Design and construction: Rauenhorst Corporation, Minneapolis, MN. The imaginative use of Fabcon panels adds visual interest.

Lumberjack Mall, Cloquet, Minnesota. Designing architect: Roberts Architects, Chaska, MN. Contractor: Ray Riihiluoma Inc., Cloquet, MN. Fabcon's insulated sandwich panels were selected to stand up to northern Minnesota winters.

After shopping around, the builders of these shopping centers chose Fabcon insulated sandwich panels for economical, attractive, energy efficient buildings. Discuss your building plans with Gary Janisch, Fabcon's General Sales Manager. Call collect (612) 890-4444.
NEARLY A YEAR AGO
WE INTRODUCED TO YOU THE LAMBDA CHAIR.
WE ARE PLEASED TO ANNOUNCE
THAT THE RECEPTION AMONG ARCHITECTS, DESIGNERS, AND BUYERS,
BOTH REGIONALLY AND NATIONALLY, HAS BEEN REMARKABLE.
THE THOUSANDS OF LAMBDA CHAIRS IN USE TODAY
ARE A TESTIMONY TO THE CHAIR'S DESIGN AND STRUCTURAL EXCELLENCE.
LAMBDA, A COMFORTABLE, AESTHETICALLY PLEASING
READING CHAIR THAT IS ALSO DURABLE
AND AFFORDABLE.
DARRELL, David, AIA

DAWSON, John W., AIA

DE JONG, Bruce, AIA

DEKKER, Alex, AIA
ATELIER-ONE Architecture, 25 University Ave. S.E., Suite 309, Mpls. 55414, 379-2648; Res. 604 5th St. SE, Mpls. 55414, 331-2902. Mpls. AIA Member.

DEKKER, Hans, AIA
(Lynne) Principal, Hans Dekker Architects & Associates, 2421 Irving Ave. S.E., Mpls. 55414, 379-2648; Res. 604 5th St. SE, Mpls. 55414, 331-2902. Mpls. AIA Member.

DE LAPP, Richard W., AIA
(Margaret) Vice President/Secretary, Zejdlik Harmala DeLapp, 430 Oak Grove St., Mpls. 55403, 871-6771; Res. 3014 Kyle Ave. N., Mpls. 55422, 588-5707. Mpls. AIA Member.

DEPTA, Richard, AIA

DE ZELAR, Gerald G.

DICKEY, Arthur H., AIA

DORN, Marie L.

DUFFNEY, Richard E.

DU'MONCEAUX, Greg A., AIA
(Barbara) Vice President, The Architectural Offices, 4941 France Ave. So., Mpls. 55410, 920-5588; Res. 9733 Mill Creek Dr., Eden Prairie, MN 55343, 941-1796. Mpls. AIA Member. Young Practitioners.

DUNWIDDIE, Foster W., AIA
(Shirley) President, Miller-Dunwiddie, Architects, Inc., 7913 Southtown Center, Mpls. 55431, 884-8421; Res.
4638 Casco Ave., Mpls. 55424, 926-3008. Mpls. AIA Member. Historic Resources.

DYKINS, Charles A., AIA

DYKINS, Charles A., AIA

EDWARDS, Gaile H.

EDWARDS, Gaile H.

EDWINS, Steve

EGGE, Robert G., AIA
(Carole) Vice President, Griswold & Rauma, 720 2nd Ave. So., Mpls. 55402, 339-3071; Res. 4941 Diane Drive, Minnetonka, MN 55343, 935-9472. Mpls. AIA Member. Compensation Mgm.

EKBERG, Erland, AIA
(Donna) President, Ekberg Associates, Inc., 5851 Duluth St., Golden Valley, MN 55422, 545-8813; Res. 2140 Spruce Trail, Mpls. 55422, 588-4869. Mpls. AIA Member. Ethics.

ELLERBE, Thomas F., FAIA

ELLINGSON, Lloyd O.

ELNESS, Arvid, AIA
(Jean) President, Arvid Elness Architects, Inc., 838 Butler Square, Mpls. 55403, 339-5508; Res. 4916 Penn Ave. So., Mpls. 55409, 920-1731. Mpls. AIA Member. Urban Design.

ENGAN, Richard P., AIA
(Sheryl) Associate, Genesis Architecture, Box 107, Willmar, MN 56201, 235-8663; Res. 811 E. 4th St., Willmar, MN 56201, 235-6616. Mpls. AIA Member. Young Practitioners.

ENGEL, Randy I., AIA

ENGELSTAD, Robert D., AIA
(Lu) Principal, Foss, Engelstad, Foss, 28 N. 3rd St., Moorhead 56560, 218-236-1202; Res. 1506 S. 12th St., Moorhead 56560, 218-233-4673. Mpls. AIA Member.

ERICKSON, Carl J., AIA

IDS Building

Baker Associates, Minneapolis
Phillip Johnson - John Burgee, New York
Joint Venture Architects

Pictured
Installation of Roman Travertine marble walls and glass mosaic ceiling – IDS Tower
by
Twin City Tile and Marble Company

219 East Island
Minneapolis, Minnesota 55401
332-8785
ERICKSON, Delano, AIA
(Susan) Principal, Bergstedt, Wahlberg, Bergquist, Rohkohl, 400 Sibley St., St. Paul 55101, 222-3701; Res. 2317 Kirkwood Lane, Plymouth, MN 55441, 559-4772. Mpls. AIA Member. Energy.

ERICKSON, Donald, AIA
(Ernestine) President, Patch, Erickson, Madson, Inc., 2311 Wayzata Blvd., Mpls. 55405, 374-3490; Res. 605 N. Ferndale Rd., Wayzata 55391, 473-8707. Mpls. AIA Member.

ERICKSON, Richard G., AIA

ERICKSON, Roland

ERICKSON, Ronald C., AIA

ESTEBO, William J., AIA

EVJEN, Richard, AIA
(Betty) President, Evjen Assoc., Box 152, Hudson, WI 54016, 715-386-2658; Res. Route 1, Hudson, WI 54016, 386-8533. Mpls. AIA Member. Ethics, Bylaws.

EWERT, Chuck
Director of Public Affairs, Ellerbe Architects, Inc., One Appletree Sq., Bloomington 55420, 853-2133; Res. 2604 London Court, Burnsville 55337, 890-4305. St. Paul Prof. Affil.

FALTESEK, Anthony E.

FARICY, Richard T., AIA

FAY, William, AIA
(Joanne) Vice President, Thorsen & Thorshov Associates, 1000 Title Insurance Building, Mpls. 55401; 339-7671; Res. 3640 Saratoga Lane, Mpls. 55441, 546-3851. Mpls. AIA Member. Ethics, Bylaws.

FIELD, Orrin D., AIA

FILONOWICH, Basil, AIA

Spancrete announces

TOMAX™

a new way to do an old job

Tomax is a machine manufactured masonry wall panel utilizing standard concrete masonry units and mortar. It offers maximum design flexibility in conventional wall construction, and is suitable for low, medium and high-rise buildings.

Preconstructed at the plant, Tomas is delivered to the jobsite ready to assemble. No complicated drawings are necessary for installation because Tomax wall panels connect in accordance with standard masonry codes. Tomax offers other advantages, also. It's safe.

The fire rating meets standard masonry codes. It's economical. Tomax wall panels can be installed rapidly, reducing rising job-site labor costs.

Tomax is manufactured in sizes up to 12 feet by 24 feet, using standard size blocks in 6 inch, 8 inch, 10 inch and 12 inch widths.

For more information on the Tomax preconstructed wall panel, its uses and potential, call or write us. We'll be happy to give you the facts.

Your complete supplier of prestressed products

SPANCRETE MIDWEST COMPANY
P.O. Box AA Osseo, Minnesota 55369 (612) 425-5555
an exciting new dimension in creative flooring design for indoor or outdoor use...

100% synthetic rubber flooring
- exceptional visual appeal
- outstanding wear and safety advantages
- easily installed and maintained

NORAMENT ... the choice for some of the most imaginative American and European architectural projects ... has many features your clients will appreciate. Call or write for samples and complete information.
Two-story dormitory addition to Murray Hall, St. Thomas College, St. Paul, was completed on schedule, for the first female undergraduates in college's 92 years. McGuire - Courteau - Locke, architects. James Steele Construction Co., general contractors.

It took only three months — 70 working days — to build this 32-room dormitory, using fast-track design and construction. That's about half the normal time for this type project.

A new one-coat veneer plaster system saved precious days. Lath and plaster went on fast. Plaster crews moved out of a room one day, painters began the next. Only 1/16 to 3/32-inch thick, the veneer plaster's hard surface resists abrasion and surface cracks. It offers plaster's benefits at costs comparable to drywall.

Want the interesting story about this fast-track project, and more information on the new veneer plaster? Just call Clint Fladland, the answer man, at 645-0208.
To Care and to Plan 1978

Minnesota Society American Institute of Architects
Food Preparation Facility State Training School for Boys, Red Wing, Minnesota, Cottle-Herman Architects, Inc., Minneapolis

Morris Campus-Humanities and Fine Arts Center, Morris, Minnesota, Ralph Rapson & Associates, Minneapolis, Architect

Remodeling of Hickory Hall, Bemidji State University, Griswold and Rauma, Minneapolis, Architect
To the People the Legislators and the Public Officials of Minnesota

The architects of Minnesota and the members of the Minnesota Society American Institute of Architects have concerns and proposals which we wish to place before the people, the Legislators, and the governmental officials of the State of Minnesota.

We are deeply concerned and involved with the conservation of our environment, the need for adequate housing and health facilities, the conservation of energy, and the reuse and rehabilitation of existing buildings. We are also deeply concerned with such professional issues as registration laws, the statutes of limitations and frivolous law suits.

The Minnesota Society American Institute of Architects is committed to assist those persons in Government involved in resolving our immediate problems. We are equally anxious to participate in formulating the long-range plans necessary to meet the physical and social needs of the people of our State.

The Minnesota Society American Institute of Architects represents over 200 architectural firms that employ thousands of individuals who in turn are responsible for the design and construction administration of hundreds of millions of project dollars annually.

We believe that Minnesota's Legislature has been among the most progressive in the country. What we need now is not so much new laws as the refinement of those we already have. We need to deal firmly with such difficult issues as conservation of energy, preservation of our environment, control and design of urban growth and the provision of much needed health and social facilities. We now truly need To Care and To Plan.
Simply described, a Statute of Limitations is a concept of law which goes back to English Common Law. It provides that, barring fraud, an individual or organization is legally responsible for an act for a specified number of years, such as six years. It provides that a matter is then laid to rest legally. As an example, an architect, contractor or engineer, under the intent of the Minnesota Statute of Limitations, is legally responsible for the design and construction of a building for a period of ten years. Recently the Minnesota Supreme Court handed down a decision which negated the present Minnesota Statute of Limitations as it applies to architects, engineers and contractors. It ruled initially that there was a language flaw in the law as written and that it applied only to cases involving third parties and not to cases arising between the owner and the architect, contractor, etc. In handing down its most recent decision the Supreme Court declared the statute unconstitutional because the class of persons protected was too narrow and should include Owners as well as the construction industry.

Statutes of limitations now exist in 45 of the 50 states. Thirty-four of those states have a statute of limitations of less than ten years. Our neighboring state of Wisconsin has recently passed a statute of limitations of six years which is the same as we are proposing.

Our Concerns Are:

1. Without a proper statute of limitations, hundreds of architectural, engineering, contracting and subcontracting firms' economic viability will be seriously jeopardized.

2. Industry professional liability insurance protection, which has already risen at a rate equivalent to that of the medical profession, will need to be carried not only by all existing firms but also forever by everyone in the profession who retires.

3. That protection offered people, their families and heirs involved in the construction industry in other states is not now available to Minnesota citizens.

4. Matters are not legally laid to rest, but remain potentially vexing problems for years.

We Propose the Following:

1. That the language flaws in the present statute be corrected to ensure the original intent.

2. That the statute be redrafted to ensure that it is broad in coverage and that, to the degree possible, it meets the constitutionality test.

3. That, we have a six year statute, as in our neighboring state of Wisconsin.

Conclusion:

We believe that a good Statute of Limitations which permits the design professions and the construction industry to practice and work confidently within a reasonable legal liability environment is indeed in the public interest.
Our Concerns Are:

1. Each session the Legislature addresses itself to the issue of the public responsibility of professionals.

The Minnesota Registration Law for architects, engineers, land surveyors and landscape architects was developed by the Legislature to assure that the public’s health, safety and welfare are protected by allowing only licensed persons to design buildings, structures or works. The Minnesota Society American Institute of Architects is concerned that the exemption clause (326.03 e & f), which allows non-licensed persons to execute design for all work under $30,000 once again faces threats of arbitrary increases.

The cost of work, related to buildings, structures or engineering systems, is in no way related to the degree of public jeopardy in their use by the public, and it is therefore not in the public interest to continue to expand the scope of work to be done outside the law, at the potential expense of the public, for the convenience of the unqualified.

We Propose the Following:

1. That the Legislature approve the proposal being discussed by the State Board of Registration of Architects, Engineers, Land Surveyors and Landscape Architects, which eliminates the exemption for work under $30,000 and in its place provides for the Board to develop rules which will define those areas which do not require the skills of specially educated, trained and tested design professionals. The existing exemptions for single family residences and farm buildings shall be maintained. The exemption should not be removed until the necessary rules are promulgated.
Preservation of Historic Resources

Stewart Hall Auditorium Remodeling, Saint Cloud State University, Saint Cloud, Minnesota.

Department of Administration, State of Minnesota

The quality of life throughout the State is enhanced by the preservation of our built environment. This preservation should include not just the buildings of obvious architectural merit or associated with important persons and events; it should include engineering structures, prehistoric and historic archeological sites, and most importantly, neighborhoods throughout our cities which have developed distinctive qualities worthy of preservation.

Our Concerns Are:

1. Many features of our built environment are being irreversibly and unnecessarily altered or destroyed. In some cases, the destruction is a direct result of unfortunate tax considerations. In other cases, it is because there is little flexibility in meeting code requirements in the course of a rehabilitation project. In most cases, however, it is simply a lack of concern for and recognition of less distinctive buildings and neighborhoods.

We Propose the Following:

1. Revisions to the State revenue codes to encourage preservation of existing buildings and to discourage the demolition of significant structures. These changes could be similar to the preservation provisions of the Federal Tax Reform Act of 1976.

2. Revisions to the State revenue code to encourage preservation of existing residential structures and neighborhoods, such as the bills introduced in the last legislative session relating to delayed increases in assessed value of rehabilitated properties.

3. Significantly increased efforts by the State to use existing facilities of architectural or historic value to meet the needs for office space. Encouragement to county and local governments to do the same.

4. Development of programs to insure that building project undertaken by all levels of government do not have an adverse effect on either officially recognized historic properties or on the less recognized qualities of neighborhoods.

5. Development of special building code provisions so that officially recognized historic buildings can be excepted from some requirements and so that other rehabilitation projects can utilize alternative methods of providing for life safety, access for the handicapped, and energy conservation.

6. Increased funding for preservation activities through the Minnesota Historical Society with an emphasis on preservation, restoration and adaptive use rather than reconstruction. More of this money should be made available to local groups and individuals than has been the case in the past.
Our Concerns Are:

The state of Minnesota has a distinguished record in providing Legislative frameworks for planning as exemplified by the creation of the Metropolitan Council, enactment of the mandatory Cooperative Metropolitan/Municipal Planning Program, creation of the Minnesota Department of Transportation, and creation of Regional Planning/Coordinating Administrative units. Yet there remain these basic concerns:

1. Metropolitan planning and development policy and related fiscal investment are entrusted to an appointive Metropolitan Council, which interacts in the planning/development decisions of elected municipal bodies. In effect there is authority in the Metropolitan Council, but not elected representation.

2. Under-utilization of existing and available land resources through sprawl and "leap-frog" development can cause the overextension and premature development of public services utilities and resources.

3. Pollution and development of natural areas, wetlands and flood plains. Failure to plan, preserve and coordinate open space and recreational areas within urbanizing regions for the preservation of natural and recreational amenities.

4. There continues to be increased investment in outlying suburban areas and disinvestment in the older urban centers.

5. Efforts to obtain quality planning and design are hampered by:
   a. Non-uniform development controls and zoning instruments, inadequate formats, procedures and criteria for development review and decision making.
   b. The lack of positive development incentives balanced with control mechanisms to encourage and achieve desired growth, investment, construction and housing.

6. Continued development of costly but inadequate transportation systems—which rely basically on the automobile—blocks attempts to develop overall policies focusing on generating viable alternatives.

We Propose the Following:

1. The Metropolitan Council should become an elected rather than appointed body.

2. A statewide land-use and growth policy should be developed and a statewide transportation policy should be completed to be used as tools to influence development from a comprehensive perspective.
   a. The regional structure of planning/coordinating administrative units should be funded and empowered to develop regional growth and land-use strategies and coordinate development control.
   b. Uniform statewide procedures should be established for land development including zoning instruments, environmental impact analysis requirements, and procedures for securing development application approvals.
   c. The efforts to protect natural areas, wetlands and flood plains should be continued and increased.
   d. Agricultural land should be stabilized and protected from pressure towards urbanization.
   e. Programs to promote creation of open space/recreation/green areas with urban areas should be extended and increased.

3. A program should be developed to provide funding for ongoing technical planning assistance to local communities to encourage updating of development policies, land-use controls, and capital improvements planning.

4. Special incentives, financing mechanisms, and development tools should be provided to stimulate redevelopment maintenance, and rehabilitation in the inner cities.
The architectural profession is committed to environmental sensitivity and the preservation of our limited natural resources. We believe that sensitivity to the environment is the foremost attribute of a design professional.

**Our Concerns Are:**

1. While the Minnesota Society American Institute of Architects endorses the intent of our current environmental assessment/environmental impact statement regulations, we have concerns and suggestions. We believe that the Environmental Quality Council is a statewide body with considerable expertise. Decentralization of the EIS/environmental assessment procedures should be undertaken with extreme care. We believe that the Environmental Quality Council should be the only group to determine when an environmental impact statement is required. When the determination is made at the local level, the decision is or could be politically motivated by groups wishing to stop projects for other than environmental reasons.

2. In addition to the political consequences of giving authority to local bodies to require environmental impact statements, we believe that the provision which makes the developer totally responsible for paying impact statement costs should also be revised. In many cases this should be the responsibility of the State.

3. We are concerned also that many local governmental bodies will attempt to undertake environmental assessment/environmental impact statements, when they do not have adequate expertise, staff or financial resources.

**We Propose the Following:**

1. The concept of consolidation of the different permits into one environmental permit process as is currently being done.

2. Continued funding and strengthening of the Minnesota Environmental Quality Council to ensure overall state coordination of environmental policy.

3. A strict adherence to the time requirements for the review of environmental assessment and environmental impact statements. Delays become excessive and the costs often are a burden which makes it financially impossible to complete developments.

4. Individuals preparing environmental assessment/environmental impact statements should be required to sign their work, thus indicating the person responsible.

5. The development of proper and meaningful land use policies and their enforcement.

6. Open space planning and additional land acquisition both in the metropolitan area and statewide.

7. Grants to cities, municipalities and counties expressly for enhancing existing environments by incorporation of the following:
   - Networks of bike and pedestrian trails
   - Neighborhood activity centers for nature studies and related activities
   - Vegetation planting and maintenance program
   - Shade tree reforestation programs
   - Maintenance of natural watersheds

8. Provision of tax credits to developers or owners for choices made to enhance rather than detract from the natural environment, such as:
   - Pond areas versus run-off ditches
   - Parking ramps which would allow more open land versus a large paved parking area which would eliminate the open land
   - Forest maintenance

The M.S.A.I.A. is pleased that the architectural consultative assistance requested by the House of Representatives Appropriations Committee has been implemented.

The design professional in Minnesota is an important resource and can effectively contribute to the appropriation and physical planning process. The involvement of an architect is particularly significant at the appropriation level of the State Building Program and it is hoped that this involvement will be a continuing one.

Our Concerns Are:

1. The contents and the preparation of the "Building Bill”.
2. That facility investigations be completed jointly by the House and Senate with continued professional assistance.

We Propose the Following:

1. That accurate appropriations be determined on the basis of detailed and comprehensive planning and space programming; that planning funds be allocated and consultants retained to program, design, and complete construction documents prior to determining the amount of the particular building appropriation; and that funds be appropriated on the basis of current cost estimates based on complete documents.
2. That a long range Planning Committee consisting of House and Senate members be reconstituted and that a professional consultant be retained to advise that Committee.
Energy Conservation: Additional Dramatic Steps are Needed

Our Concerns Are:

1. Energy/Conservation
A viable National Energy Policy must be based on strong energy conservation efforts and the development of new energy sources. Conservation could have a substantial effect immediately while alternative sources and new technologies will require at least ten to twenty years to effect overall energy use patterns. State governmental efforts are necessary to achieve the efficient use of fuel. Minnesota has already begun such efforts; however, there is much to be done if we are to achieve the significant energy savings and maintain the national energy conservation leadership position that Minnesota has earned.

2. Energy Budget vs. Prescriptive Standards
Throughout the nation two types of standards are emerging. The first are prescriptive standards which Minnesota has now adopted. The second type is an annual energy budget for each building type.

The Minnesota Society and the American Institute of Architects view the prescriptive code restrictions as an interim solution. An energy budget establishes each building's maximum energy consumption and does not specify the means which an architect and owner must use to achieve the desired results.

3. Energy and Land Use Planning
Intelligent land use planning is probably the most fundamental long-term key to energy conservation. Our current land use patterns, urban sprawl and development systems encourage the waste of energy—not only in the delivery systems required for their occupants, materials and services, but also in the energy required to provide hardware (roads, cars, pipelines, power plants, etc.) to structure these systems. Much current effort is directed to the extension of transportation and utility networks to service helter skelter developments, resulting in the unintentional encouragement of more fragmentary developmental patterns. Much of this is a result of the quest for cheaper land. Enlightened planning would eliminate the extension or minimize the level of services to fragmented developments. Where feasible the needs of unserviced existing establishments should be met through special or localized services.

1. The continued strengthening of the Minnesota Energy Agency.
2. A continued emphasis on the collection and assimilation of data and information which can be used to establish an energy budget or performance code for buildings.
3. An expanded function of the Minnesota Energy Agency to direct research and development for energy conservation and alternative sources.
4. A package of tax and economic incentives to make it economically feasible
for Minnesota building owners to retrofit existing buildings and design into new structures maximum energy conservation design technology.

5. Development of incentives for residential consumers of energy to retrofit their homes.

6. State appropriations for Minnesota cities, counties, and educational institutions to survey their buildings to determine energy conservation capital improvements which are economically feasible.

7. A requirement of life cycle costing on all public buildings funded by the State of Minnesota, which would entail an estimation of the total energy costs of a particular building over a 10 year period.

8. In order to facilitate the implementation of energy oriented land use planning concepts, the state should provide enabling funds to the appropriate governmental agencies (State Planning Agency, Metro Council, Energy Agency) to undertake the following actions:

a. Survey existing zoning, code, tax and other incentives that have misdirected the growth patterns of our urban and rural areas. Recommend changes in these incentives to encourage efficient development and appropriate directions of growth.

b. Survey existing energy uses in the delivery of persons, materials and services. From this survey, analyze which land use patterns minimize energy usage and still provide for a good human working environment and economic growth.

c. Investigate, in terms of energy efficiency and environmental impact, the relationship between the elements of certain utility and transportation services and their capacity to meet the needs of the area.

Land developed efficiently along with services, should strive to use our limited supplies by building a more condensed environment. This allows for efficient energy systems such as district heating, mass transit and a higher level of human services.
Frivolous Lawsuits

“Frivolous” lawsuits have been a burden to our judicial system and a financial drain to all professions. Almost every professional business has or will be affected by such a legal procedure. In recent years many states have instituted legislation to protect innocent victims from this type of legal action while protecting the right of plaintiffs to institute suit only where there is a valid reason.

Our Concerns Are:

1. Without proper legislation enacted in Minnesota, “frivolous” lawsuits will continue.
2. The cost of defending against these “frivolous” lawsuits is continually rising thereby adding to the already increasing financial burden of professional business operations.
3. “Frivolous” lawsuits contribute to the overcrowding of court calendars and cause needless expense to taxpayers required to support the judicial process.
4. Professionals in some states are protected, in varying degrees, from the activities of “frivolous” lawsuits. Minnesota professionals should be provided with a reasonable amount of protection for their business operations, as well.

We Propose the Following:

1. The enactment of a Minnesota Statute providing a reasonable degree of protection against “frivolous” lawsuit procedures.
2. That members of other professional organizations be contacted and enlisted in an organized effort to implement this investigation and the ultimate endorsement by their respective organizations of proper legislation to be implemented by our Legislature.

Nelson Hall, Moorhead State University, Moorhead, Minnesota. Foss, Engelstad and Foss, Inc., Architects and Engineers, Moorhead, Minnesota
Willmar Rehabilitation Therapies Building, Willmar State Hospital, Willmar, Minnesota, Hammel Green and Abrahamson, Inc., Architects and Engineers, Saint Paul

Big Spunk Lake & Middle Spunk Lake Rest Area Buildings, near Avon
Team 70 Architects, Inc., Minneapolis, architects

Fuller Lake Rest Area Building, Interstate 94, Clearwater, Minnesota, Pauly Architects, Inc., Architect, Saint Cloud

Kanabec County Historical Museum, Mora, Minnesota. The Museum, designed by the Saint Paul firm of Toltz, King, Duvall, Anderson and Associates, Saint Paul.
To Care and to Plan 1978

Minnesota Society American Institute of Architects
314 Clifton Avenue, Minneapolis 55403 Telephone 612 874-8771
FRENCH, Charles B., AIA

FRENETTE, Edward R., AIA
Project Architect, Setter, Leach & Lindstrom, 1011 Nicollet Mall, Mpls. 55403, 338-8741; Res. 50 Groveland Terrace, Mpls. 55403, 377-3085. Mpls. AIA Member, Honor & Special Awards Chairman.

FRIDLUND, H.W., AIA
(Marguerite) President, H.W. Fridlund Architects, 4501 Minnetonka Blvd., Mpls. 55416, 920-3080; Res. 4508 Upton Ave. So., Mpls. 922-6493. Mpls. AIA Member.

GAARDER, LeRoy, AIA

GALLAGHER, Daniel P., AIA
(Colette) Vice President, Armstrong, Torseth, Skold & Rydeen, Inc., Architects & Engineers, 4901 Olson Memorial Hwy., Mpls. 55422, 545-3731; Res. 3609 Gettysburg Ave. N., New Hope 55427, 544-9835. Mpls. AIA Member. Legislative Energy.

GARDNER, Elza L., AIA
Retired. 3790 Rustic Place, St. Paul 55112, 484-3782, St. Paul Emeritus.

GAUGER, Glenn, AIA
(Kathleen) Vice President & Treasurer, Gauger-Parrish, Inc., 500 Pioneer Building, St. Paul 55101, 224-5691; Res. 1484 Branston, St. Paul 55108, 645-6786. St. Paul AIA Member. Council of Small Firms, Legislative, Treasurer, St. Paul Chapter.

GJELTEN, Gordon O., AIA

GJELTEN, Gordon O., AIA

GILBERTSON, Victor C., FAIA

GLOTTER, Joel H., AIA

GLEWWE, Norman, AIA

Getting you everything you'll ever want in ceramic tile is Child's play

At Rollin B. Child Inc. we can get you just about anything you'll ever want in the way of ceramic tile, because we stock and sell Romany-Spartan American-made ceramic tile, one of the broadest lines available in this or any other country.

We offer a rustic line, a water-marked crystal line and a veined line, a dappled line and a decorative line, plus a fantastic selection of unglazed ceramic mosaics and the traditional bright and matte glazes, too.

Next time you need ceramic tile, turn to the company that can do it all from one source . . . by the truckload or by the carton. (We also stock large quantities of Summitville Quarry Tile and feature imported tiles from France, Italy and Japan.)

For more information, call Rollin B. Child Inc. at 938-2785 in the Metropolitan Twin City area, or on our Watts lines—Minnesota 800/552-7685, Other States 800/328-8296. In Wisconsin call: Child Crest Distributing, Inc. 414/462-9770.
Granite.
Beautiful for heavy traffic areas.

Cold Spring granite is a natural for landscape applications. Its warm colors and natural textures blend beautifully with the environment. And at the same time, granite provides the designer with the flexibility he needs to create areas of unusual and lasting beauty.

Cold Spring granite is now available in a wide variety of Module Pavers and Durax Blocks. For more information, please call (612) 685-3621. Or write to the address below.

Cold Spring Granite Company, Dept. P
202 South 3rd Avenue, Cold Spring, MN 56320

GRABOW, Ken, AIA
(2) Vice President (Design), Armstrong, Torseth, Skold & Rydeen, 4901 Olson Memorial Highway, Mpls. 55422, 545-3731; Res. 12035 Mayflower Circle, Minnetonka, 55343. Mpls. AIA Member. Young Practitioners.

GRADY, Martin D., AIA

GRAFFUNDER, Carl, AIA

GAVENDER, Jon, AIA
(Mary) Consultant, Office of City Coordinator, 301M City Hall, Mpls. 55415, 348-8290; Res. 5200 Irving Ave. So., Mpls. 55419, 927-5252. Mpls. AIA Member. Urban Design.

GREEN, Curtis H., AIA

GREEN, Gene L., AIA
(Mary) President, Bissell, Belair & Green Inc., 430 Oak Grove, Mpls., 55403, 870-8924; Res. Waldenbeim, Route 2, Pequot Lakes, 56472, 218-562-4502. Mpls. AIA Member.
GRISWOLD, David J., AIA
(Virginia) President, Griswold &
Rauma, Architects, Inc., 720 Second
Ave. So., Mpls. 55402, 339-3071;
Res. 6417 Mendelssohn Lane, Hopkins
55343, 938-4575. Mpls. AIA Member.
Legislative, CICC

GRISWOLD, Jackson W., AIA
Vice President, Griswold & Rauma,
720 2nd Ave. So., Mpls. 55402, 339-
3071; Res. 30 Birch Bluff Rd., Excel­
sior 55331, 474-8787. Mpls. AIA Member.

GROTHE, Jonathan
University of Minnesota Student, Res.
2735 Fremont Ave. So., Mpls. 55408.
Mpls. Student.

GROVER, James R.
Gene E. Hickey & Assoc., 6950 France
Ave., So., Edina 55435, 920-1881;
Res. 13071 Findlay Ave., Apple Valley
55124, 432-2711. Mpls. Assoc.

GRUNDMANIS, John V., AIA
Architect, 185 Hartman Circle, Frid­
ley 55432, 571-8171; Res. Same. Mpls.
AIA Member.

HAARSTICK, Donald, AIA
Retired. 1316 Boland Place, St. Paul
55116, 699-4695. St. Paul Corp. Emer­
itus.

HADGES, George A., AIA
(Gwen) Architect-Shopping Centers,
Dayton Hudson Properties, Suite 1301,
777 Nicollet Mall, Mpls. 55402, 370-
5552; Res. 5232 Birch Road, Min­
etonka 55343, 935-5021. Mpls. AIA
Member. Bldg. Codes.

HAGLUND, Arthur G., AIA
(Barbara) Vice President, Bettenburg.
Townsend, Stolte, & Comb, Inc.. 1437
Marshall Ave., St. Paul 55104, 646-
2558; Res. 13656 Oakwood Curve,
Burnsville 55337, 890-1385. St. Paul
AIA Member. Professional Develop­
ment Programs, Board of Directors.

HAHN, Gilbert F., AIA
(Pat) Secretary-Treasurer, Traynor,
Hermanson & Hahn Architects, Inc.,
Box 156, St. Cloud, MN 56301, 251-
8760; Res. 1755-17th St. So., St. Cloud
56301, 251-8169. Mpls. AIA Member.

HAKKILA, Leon, AIA
Architect, Abe W. Matthews Eng. Co.,
555 W. 27th St., Hibbing 55746, 218-
262-3465; Res. 2035 E. 31st St.,
Hibbing 55746, 218-263-8607. N.E.
AIA Member.

Haley, Greg, AIA
(Nancy) Project Architect, Paul Pink
& Associates, Inc., 430 Oak Grove,
Mpls. 55403, 871-5615; Res. 2258
Commonwealth Ave., St. Paul 55108,
644-0811. Mpls. AIA Member. Young
Practitioners.

HALL, David B., AIA
Associate Director/Architecture,
Ellerbe, One Appletree Square, Bloom­
ington 55420, 853-2277; Res. 385
Transit, Roseville 55113, 484-9057.
St. Paul AIA Member. Board of Di­
rectors, St. Paul Chapter Director.

HAMMEL, Richard P., FAIA
(Bette) President, Hammel, Green,
Abrahamson, Inc., 2675 University
Ave., St. Paul 55114; 646-7501; Res.
13709 Wood Lane, Minnetonka 55343,
544-4500. St. Paul Fellow. School
Liaison.

HANSON, Gary B., AIA
(Barbara) Associate, Sovik, Mathre,
Sathrum, Quanbeck, Box 390, North-

---

Allied Plastics

Can handle all your plastic fabricating jobs quicker & better by providing the following . . .

- Design Assistance
- Structural Specification
- Factory Testing
- Prototypes
- Glazing Specifications

Virtually every Plexiglas®
fabrication process
is available to you.

George Grove, Sales Manager

DISTRIBUTION – CUTTING – FORMING – SCREENING
FIELD TAKE-OFFS IN METRO AREA

Distributing Plexiglas, Quality
and Service Since 1948.
533-2771

ALLIED PLASTIC INC.
7200 Boone Ave. No.
Mpls., MN 55428

Architecture Minnesota/January-February 1978 57
for over 90 years we've done right by wood

From the world's finest hardwoods, we turn out millwork any architect would be proud of -- including fine matched cabinetry executed to your exacting plans and specifications.

Contact Don Boehmer, Jr., Roger Barlau or Rod Davies and learn about some recent installations that prove we do right by wood.

217 Como Ave., St. Paul, MN 55103
(612) 488-2525
HILLS, James B., AIA
3934 Dakota Ave. So., St. Louis Park
So., Edina 55435. 920-1881; Res. 
& Associates, Inc., 6950 Basset Creek Dr., 
Golden Valley 55422, 588-9198. Mpls. 
AIA Member. Legislative.

HENEDIX, Thomas B., AIA
(June) President, Hendrix Associates, Inc., 670 Sexton Building, Mpls. 55415, 339-7986; Res. 5055 Downer Ave., 
Edina 55439, 947-1703. Mpls. AIA 
Member. Legislative.

HENNEMUTH, William H., AIA
(Sharon) Vice President, Reke-Carroll- 
Muller Associates, Inc., 1011 1st St. 
Hopkins 55343, 935-6901; Res. 3436 
Dart Ave. So., St. Louis Park 55424, 
920-0042. Mpls. AIA Member. 

HERMAN, Bernard, AIA
(Renee) Principal and Vice President, 
Cottle-Herman Architects, Inc., 3100 
West Lake St., Mpls. 55416; 925-2425; 
Res. 2740 Sedan Ave. Ne., New 
Hope 55427, 546-7155. Mpls. AIA 
Member. Legislative, Registration Law.

HERMANSON, Raymond T., AIA
(Betty) Vice President, Traynor, Her- 
manson & Hahn Architects, Inc., Box 
156, St. Cloud 56301, 251-8760; Res. 
1919 17th St. So., St. Cloud 56301, 
251-4887. Mpls. AIA Member.

HERZOG, Peter, AIA
(Jan) Principal, Associated Energy 
Consultants, Inc., 7505 West Highway 
7, Mpls. 55426, 933-3250; Res. 2601 
Zenith Ave. N., Mpls. 55422, 588- 
0287. Mpls. AIA Member. Energy.

HEWITT, Leigh A.
Department Head, Dunwoody Institu- 
tute, 818 Wayzata Blvd., Mpls. 55403, 
374-5800; Res. 9249 Greenbriar Rd., 
Bloomington 55437, 835-3862. Mpls. 
Assoc.

HICKEY, Eugene E., AIA
(Imogene) President, Gene E. Hickey 
So., Edina 55435, 920-1881; Res. 3934 
Dakota Ave. So., St. Louis Park 
55416, 929-8851. Mpls. AIA Member.

HILLS, James B., AIA

HINRICHs, Craig L., AIA
Architect, Hammel Green & Abraham- 
sen, 2675 University Ave., St. Paul 
55114, 646-7501; Res. 2063 Village 
Lane, St. Paul 55116. Mpls. AIA 
Member. Architecture Minnesota.

HODNE, Thomas H. Jr., AIA
(Pat) Architect/Urban Designer, The 
Hodne/Stageberg Partners, 116 E. 
22nd St., Mpls. 55404, 871-1700; Res. 
100 Seymour Ave. SE, Mpls. 55414, 
378-2481. Mpls. AIA Member.

HOHNCKE, John, AIA
(Audrey) Staff Architects, Dept. of 
Military Affairs, State of Minnesota, 
Camp Ripley, Little Falls, 56345, 612- 
632-6631, Ext. 314; Res. Camp Ripley, 
Little Falls, 56345, 632-3771. St. Paul 
AIA Member. Architects in Govern­ 
ment, Contracts/Documents.

HOKANSON, Brad
Chief Architect, 3M Co., 900 Bush 
Ave., Bldg. 42-2W, P.O. Box 33331, 
St. Paul 55133, 733-7121; Res. 50 
So. Deep Lake Rd., North Oaks 55110, 
484-8179. St. Paul AIA Member. 
Legislative Architects in Industry.

HOLLOWAY, Truman E., Jr., AIA
Truman Howell Architect, 4733 Re­ 
gent Ave. N., Crystal 55429, 533- 
4416; Res. 4733 Regent Ave. N., 
Crystal 55429, 535-1662. Mpls. AIA 
Member.

HOOZ, Dave
(Patricia) Councilman, President, St. 
Paul City Council, 704 City Hall, St. 
Paul 55102, 298-4646; Res. 581 
Desnoyer, St. Paul 55104, 647-0544. 
St. Paul Prof. Affiliate.

HUGHES, Clayton M.
(Isabelle) Chief Draftsman, Armstrong, 
Torseth, Skold & Ryden, 4901 Olson 
Memorial Hwy., Mpls. 55422, 545- 
3731; Res. 208 Turnpike Rd., Golden 

HUH, Seung H., AIA
(Young Hee) The Leonard Parker 
Assoc., 430 Oak Grove, Mpls. 55403, 
871-6864; Res. 1632 Hampshire Ave. 
So., St. Louis Park 55426, 546-6998. 
Mpls. AIA Member. Energy.

HUNTELEY, Charles L., AIA
Inc., 619 Second St., Hudson, Wis. 
54016, 612-436-5241; Res. 601 
Mallalieu Drive, Hudson, Wis. 54016, 
715-386-9063. St. Paul AIA Member. 
Public Communications.

HURLBUT, Larry J., AIA
(Carla) Project Director, Peterson, 
Clark & Associates, Inc., 750 Plymouth 
Bldg., Mpls. 55402, 333-3215; Res. 
14335 Valley View Rd., Eden Prairie 
55344, 941-5314. Mpls. AIA Member. 
Urban Design.

HUSMAN, Curt
(Betti) Instructor, Northwest Techni­ 
cal Institute, 7600 Hwy. 7, Mpls. 
55426, 923-2233; Res. 3401 N. 
Halifax, Mpls. 55422, 588-0210. 
Mpls. Prof. Affiliate. Young Practi­ 
tioners.

HUTCHINSON, George
55414. Mpls. Student.

HYSELL, Robert, AIA
Bellmuth, Obata & Kassabaum, Inc., 
100 North Broadway, St. Louis, MO 
63102, Mpls. AIA Member.

IBS, Ernst A., AIA
(Anna) Architect, Frederick Bentz/ 
Milo Thompson & Associates, Inc.,
Plant Leasing
is the
Carefree Way!

Because your satisfaction is our main concern, our Plant Lease Program provides total "CARE" to "FREE" you from the responsibilities of ownership and to assure constant beauty. We believe our commercial horticultural displays provide that special warmth and elegance for all business settings. Call and one of our commercial staff will show how inexpensively you can grow.

PLANTSCAPE, INC.
225 HIGHWAY 55, MINNEAPOLIS, MN 55340 • 612/478-6097

Ceram-traz
Has the Systems!

When you talk about Special Finishes in floor and wall systems ... call us 612-929-1625 and we'll give you the right answers.

"The cadillac of Floor and Wall Systems"

JACKELS, Robert T., AIA

JACKSON, Frank W., AIA

JACOB, Bernard, AIA

JAEGER, Harvey J., AIA
(Elaine) Senior Architect, Physical Planning Office, University of Minnesota, 503 Morrill Hall, Mpls. 55455, 373-5765; Res. 28 Benhill Road, St. Paul 55105, 227-5507. Mpls. AIA Member.

JAFVERT, Lloyd R., AIA

JAMES, Phillip M.

JAMESON, Joseph A.

JEPSEN, Robert, AIA
(Susan) Job Captain, Hammel, Green & Abrahamson, 2675 University Ave., St. Paul 55114, 646-7501; Res. 5117 Benton Ave., Edina 55436, 922-3861. Mpls. AIA Member.
JESKE, Wayne A.  

JILK, Bruce A., AIA  

JOHNSON, Bruce, AIA  

JOHNSON, Gerald S., AIA  

JOHNSON, Gerald W.  
(Janet) City Architect, City of Duluth, 409 City Hall, Duluth 55801, 218-723-3649; Res. 517 E. Oxford St., Duluth 55803, 218-724-5731. N.E. Associate. Northeastern Chapter Director.

JOHNSON, Jay M., AIA  
(Kirsten) Project Architect, Miller, Hanson, Westerbeck, Bell, 100 No. 6th St., Mpls. 55403, 338-7700; Res. 247 1st St., Excelsior Blvd., Mpls. 55431, 474-6562. Mpls. AIA Member. Young Practitioners, Energy, Convention.

JOHNSON, Kenneth D., AIA  
(Susan) Principal, Ken Johnson Architects, 1417 W. Lake St., Mpls. 55408, 823-8033; Res. 4144 Aldrich Ave. S., Mpls. 55409, 825-4136. Mpls. AIA Member. Office Procedures.

JOHNSON, Larry D.  

JOHNSON, Lawrence E.  

JOHNSON, Maurice B., AIA  

JOHNSON, O. Reuben, AIA  

JOHNSON, Robert J., AIA  
(Marcia) Job Captain, Kilstofte Assoc., 250 N. Central, Wayzata 55391, 473-0277; Res. 10168 Orleans Lane, Maple Grove 55369, 425-5389. Mpls. AIA Member.

JOHNSON, Roger F., AIA  

JOHNSON, Walter D.  

JOHNSON, Wilford F., AIA  
(Jean) Principal, Bergstedt, Wahlberg, Bergquist, Rohkohl, 400 Sibley, St. Paul 55101, 222-3701; Res. 2909 Townview Ave. N.E., St. Anthony, 789-2006, St. Paul. AIA Member.

JOHNSON, Zack, AIA  

JOSLIN, Robert G., AIA  
(Millie) Project Manager, Ellerbe Architects, One Appletree Square, Bloomington 55420, 853-2458; Res. 3001 Marine Circle, Stillwater 55082, 439-0218. St. Paul, AIA Member. Architecture for Health, Professional Development Programs

JYRING, E.A., FAIA  
When You Think of PANELS...Think of US!

Preformed Steel Siding
Standing Rib Roofing & Siding
Porcelain on Steel
Porcelain on Aluminum
Copper Laminated to Plywood
Colored Aluminum Laminated to Plywood
Stone Aggregate on Plywood
Formica Clad Interior Walls
Insulated Closure Panels for Double Tee Decks
Cement Asbestos Wall Systems

We will fabricate any laminated panel combination or shape you can think of.

WE DISTRIBUTE. FABRICATE & ERECT!

Benoit Inc.
635 North Prior Avenue
St. Paul, Minnesota 55104
Inter State (800) 328-1436
Intra State (612) 646-1387

EXTERIOR- INTERIOR - INDUSTRIAL - PUBLICITY
- Complete service of publicity materials -

KAGERMEIER, James, AIA
(Sandy) President, Wick-Kagermeier-Skaar, 455 Martin Bldg., Mankato 56001, 507-388-6271; Res. 149 Eastwood Dr., Mankato 56001, 507-388-1841. Mpls. AIA Member.

KALLENBACH, Dan

KAPING, Harold A.

KEGEL, Fred W., Jr., AIA

KEILLOR, Richard, AIA

KEISER, Roger, AIA
(Judith) Owner, Keiser Architecture, 752 Springen Ave. N., Fergus Falls 56537, 218-739-2396; Res. Same as above, 218-739-2385. Mpls. AIA Member.

KELL, Duane A., AIA

KELLER, Raymond, AIA
Vice President/Secretary, Wold Association, Inc., 700 Osborn Bldg., St. Paul 55102, 227-7773; Res. 2252 Knapp, St. Paul 55108, 644-4252. Mpls. AIA Member.

KELLETT, James A., AIA
(Jeanne) President, James Kellett/Architects, Inc., 2345 Rice St., Roseville 55113, 494-2901; Res. 434 Woodhill Drive, Roseville 55113, 484-6559. St. Paul AIA Member. CICC Chairman.
KERR, Francis K., AIA
(Mary) Tyson & Kerr, Architects, 711 W. Lake St., Mpls. 55408, 825-4213; Res. 1942 Irving Ave. So., Mpls. 55403, 374-5438. Mpls. AIA Member. Urban Design.

KERR, Robert H.

KETCHAM, Herbert, AIA
(Janet) Vice President/Treasurer, The Architectural Alliance. 400 Clifton Ave., Mpls. 55403, 871-5703; Res. 7212 Oak Grove Blvd., Richfield 55423, 866-9089. Mpls. AIA Member. Mpls. Chapter Director Board of Directors.

KILGORE, Robert A., AIA

KILGORE, Robert A., AIA

KILSTOFTE, Irwin, AIA

KLEIN, Michael J.

KLEIN, Robert H.

KLAPSTE, James L., AIA

KLECKER, Daniel M.
(Ruth) Draftsman, Plagens McGee Pope, 533 St. Clair, St. Paul 55102, 226-8894; Res. 4525 Wood Duck Dr., White Bear Lake 55110, 426-4996. St. Paul Associate.

KLEIN, Cletus G., AIA

KLEIN, George F., Jr., AIA

KLEIN, Michael J.

KLEIN, Robert H.

KLEIN, Robert H.

KLEIN, Michael J.

KLEIN, Michael J.

KLEIN, Robert H.

KLEIN, George F., Jr., AIA
KROOS, David R., AIA

KRUMM, Richard V.

KUEBELBECK, Robert, AIA

LACKENS, John W., Jr., AIA
(Barbara) Vice President & Secretary, The Architectural Alliance, 400 Clifton Ave. So., Mpls. 55403, 871-5703; Res. 4915 Garfield Ave. So., Mpls. 55409, 827-3339. Mpls. AIA Member. T.F. Advancement of the Profession, School Liaison.

LA FRANCE, Dennis, AIA

LAGEROQUIST, Ronald, AIA

LAIDERMANN, Ralph, AIA
Associate, Smiley-Glotter, 1021 LaSalle, Mpls. 55403, 332-1401; Res. 52 Groveland Terrace, Mpls. 55403, 374-4245. Mpls. AIA Member. Registration Law.

LAMMERS, James I., AIA

LANAK, Stephen J.
(Brenda) Associate, Korsunsky Krank Architects, 555 Sheland Tower, 600 So. County Rd. 18, Mpls. 55426, 546-5381; Res. 18804 Kingswood Terrace, Minnetonka 55343, 474-7571. Mpls. Assoc.

LANDESTROM, Lyle, AIA

LANE, Austin H., AIA
Retired; Res. 5512 Merritt Circle, Edina 55426, 929-3210. Mpls. Emeritus.

LANE, Leroy H., AIA
(Jesus) Project Coordinator, City of Minneapolis, City Hall, Mpls. 5348-5399; Res. 12820 26th Ave. N., Plymouth 55441, 559-3174. Mpls. AIA Member. Architects in Government.

LANGSETH, Gilbert B., AIA

LARSEN, Richard J., AIA

LARSEN, Richard
(Rikki) Designer/Draftsman, Kegel Associates, Box 599, Detroit Lakes 56501, 218-847-9876; Res. 621 Northshore Drive, Detroit Lakes 56501, 847-9439. N.E. Associate.

LAUKKA, Donald W.
(Suzanne) Associate Architect, Dayton Hudson Properties, IDS Tower, 777 Nicollet Mall, Mpls. 55402, 370-6479; Res. 4910 12th Ave. S., Mpls. 55417, 825-4056. Mpls. Associate.

LEACH, Stowell D., AIA
(Helen) Retired; Res. 2608 Cromwell Court, Mpls. 55410, 922-8761. Mpls. Emeritus.

LEADHOLM, John, AIA

LE BARRON, Darrel, AIA

LE DOUX, Kenneth A., AIA

LEIER, Donald J., AIA

LENCI, Richard K., AIA
President, Richard Lenci Assoc., Inc., 1015 So. 2nd Ave. Virginia 55792, 218-741-0300; N.E. AIA Member, Registration Law, Board of Directors, Northeastern Chapter President.

LEWIS, Richard, AIA
(Elayne) Project Architect, Rieke, Carroll, Muller, Assoc., 1011 1st St. So. Hopkins 55343, 935-6901; Res. 7533 Clinton Ave. So., Richfield 55423, 869-3581. Mpls. AIA Member.

LICHT, David R.

LIDDY, Charles D., Jr., AIA

LIEBENBERG, Jack J., AIA

LILLOQUIST, Kenneth, AIA
(Mary) Project Architect, Bentz Thompson & Associates, 1234 Dain Tower, Mpls. 55402, 335-1207; Res. 5149 Penn Ave. So., Mpls. 55419, 926-8174. Mpls. AIA Member. Young Practitioners Energy
LILYHOLM, Leonard P.

LINDBERG, Glen L., AIA
Principal, Glen L. Lindberg/Architects, 1422 West Lake St., Mpls. 55408, 822-9300; Res. 4949 Queen Ave. So., Mpls. 55410, 922-0364. Mpls. AIA Member. Mpls. Summer Design Series.

LINDBERG, James H., AIA
(Gerri) President, Lindberg Pierce, Inc., 512 Nicollet Mall, Mpls. 55402, 332-3339; Res. 7300 Shannon Dr., Edina 55435, 941-1683. Mpls. AIA Member. Legislative.

LINDEMANN, Jack E., AIA
(Nancy) Jack Lindeman-Specifications Consultant, 5000 First Ave. S., Mpls. 55419, 824-8822; Res. Same. 823-0304. Mpls. AIA Member. Contracts/Documents, Young Practitioners

LINDSTROM, John, AIA
(Liona) Chairman of the Exec. Committee, Setter, Leach & Lindstrom, Architects & Engineers, Inc., 1011 Nicollet Mall, Mpls. 55403, 338-8741; Res. 11720 W. Live Oak Dr., Minnetonka 55343, 545-7945. Mpls. AIA Member.

LITCHY, John P., AIA
(Bette) Associate, Thorsen & Thorshov Assoc., Inc., 1000 Title Insurance Bldg., Mpls. 55401, 339-7671; Res. 4600 4th St. NE, Columbia Heights, 55421, 560-6325. Mpls. AIA Member. Young Practitioners, Energy

LOVELESS, Jack

LUCKE, Arnold S., AIA

LUNDAHL, Richard L., AIA
(Millie) Owner, R.L. Lundahl, Archi-
LUNDGREN, Cherry Gen

LUNDGREN, June S., AIA

LUNDEGREEN, Louis R., FAIA

MADSEN, Richard C., AIA

MADSON, John A., AIA

MADSON, Norman E., AIA
(Ruth) Director of Plant and Staff Architect, St. Olaf College, Northfield 55057, 507-663-3280; Res. Heathridge Rt. 5, Northfield 55057, 507-645-5127. Mpls. AIA Member.

MAGNEY, Robert G., AIA
(Jean) Owner, Robert G. Magney, Architect, 11408 Oak Ridge Lane, Minnetonka 55343, 544-9219; Res. Same. 545-3632. Mpls. AIA Member. Bldg. Codes, Office Procedures.

MAGNUSON, Jeffrey

MAHAL, Kenneth L., AIA

MALONEY, Robert T., AIA

MARTINSON, Robert, AIA
(Marilyn) Project Manager, Laukka & Assoc., 7101 York So., Edina 55435, 831-8434; Res. 5624 Chowne So., Edina 55410, 922-2290. Mpls. AIA Member. Energy.

MAYO, Samuel B., AIA
Retired. Res. 19610 Excelsior Blvd., Deephaven 55391, Mpls. AIA Member.

MC CANN, Realino V., AIA

MC CHANE, Doug

MC GUIRE, George E., AIA
(Jean) President, McGuire Architects Planners, Inc., Suite 1039, Plymouth Bldg., Mpls. 55402, 335-2116; Res. 5140 Upton Ave. So., Mpls. 55410, 927-6469. Mpls. AIA Member.

MC GUIRE, Patrick F., AIA

MATHRE, Sewell J., AIA
(Donna) President, Sovik, Mathre, Sather Quanbeck, 205 So. Water St., Box 390, Northfield 55057, 507-645-4461 or 612-336-8679; Res. 300 Cherry St., Northfield 55057, 507-645-7389. Mpls. AIA Member. Professional Development Programs, Legislative, Contracts/Documents.

MATSON, Gordon O.
(Ruth) Director of Specifications, Setter, Leach & Lindstrom, Inc., 1011 Nicollet Mall, Mpls. 55403, 338-8741; Res. 2800 Jordan Av. S., Mpls. 55426, 544-3866. Mpls. Associate.

MATSON, Horace, AIA

MATSUMOTO, Masao, AIA
(Charlotte) Vice President/Secretary, Smiley Glotter Assoc., 1021 LaSalle Ave., Mpls. 55403, 332-1401; Res. 1608 Brightwood Dr., Wayzata 55391, 473-2393. Mpls. AIA Member. Office Procedures.

MC GUIRE, Patrick F., AIA
PROFESSIONAL DIRECTORY

An Expansion of Soil Engineering Services, Inc.

BRAUN ENGINEERING TESTING

MINNEAPOLIS/ST. PAUL 55425-6, 941 5600
NORTHERN MINNESOTA 3756 E. 39TH Avenue, Hibbing, Mn. 55746 238 263 8866
CENTRAL MINNESOTA 2100 Osseo Ave N, St. Cloud, Mn. 56301 223 253 9940
Test Borings, Inspection of Construction, Material Testing of Soils, Concrete, Bituminous and Building Components.

SOIL TESTING SERVICES OF MINNESOTA, INC.
Consulting Geotechnical and Materials Engineers
2405 ANnapolis LANE, SUITE 280 • PHONE 612-559-1900
MINNEAPOLIS, MINNESOTA 55441

IAN A. MORTON
CONSULTANT • ARCHITECTURAL ACOUSTICS

1500 GOODRICH AVENUE
SAINT PAUL, MINNESOTA 55105
(612) 698-1574

TWIN CITY TESTING AND ENGINEERING LABORATORY, INC.

COMPLETE TESTING SERVICES IN:
soil mechanics, foundation engineering; construction materials; NDT and metallurgical analysis; chemical analysis.

AMES ENGINEERING AND TESTING CO
515-232-7231
ames engineering and testing co
2010 east 13th street • ames, iowa 50010

SUB-SURFACE INVESTIGATIONS

ENGINEERING
— Analysis
— Recommendations
— Consultation
FIELD INVESTIGATIONS
LABORATORY TESTS


MEINHARDT, Don, AIA (Arvilla) Vice President, Birkeland Architects, 1111 Hwy. 25 N., Buffalo 55313, 1-682-1782; Res. 6050 Duluth Lane, Golden Valley 55422, 545-1050. Mpls. AIA Member.


MELANDER, Donald K., AIA (Nancy) President, Melander & Melander Architects, 800 Lonsdale Bldg., Duluth 55802, 218-727-5044; Res. 2121 Vermillion Rd., Duluth 55803, 218-724-2141. N.E. AIA Member.


MICHEJDA, Albert M., AIA (Maija) Prof. Associate, Ellerbe Assoc., Inc., One Appletree Square, Bloomington 55420, 853-2466; Res. 35 Birnamwood Dr., Burnsville 55337, 890-5198. Mpls. AIA Member. Exhibits/Displays.


MILBRATH, William F., AIA (Beulah) Principal Owner, William Milbrath, P.O. Box 481, 233 A North Main St., Austin 55912, 507-433-7421; Res. P.O. Box 481, 1605 S.W. 24th St., Austin 55912, 507-433-1589. St. Paul AIA Member. Public Communication.


MILLER, John R., AIA (Elizabeth) President, Miller Hanson Architects, 100 N. 6th St., Mpls. 55403, 338-7700; Res. 5400 Queen Ave. S., Mpls. 55410, 922-6782. Mpls. AIA Member. Contracts/Documents.

MILLER, William J., AIA (Ruth) Vice President & Treasurer, Miller-Dunwiddie Architects, Inc., 7913 Southtown Center, Mpls. 55431, 884-8412; Res. 2956 Washburn Circle, Richfield 55423, 866-9809. Mpls. AIA Member. Legislative.


MING, Charles Ka Fook Architect, Charles Ming & Assoc. Architects, 1108 Manning House, 48 Queens Road C, Hong Kong, 5-225996; Res. 2C-12 Kowloon Road, Hong Kong 5-451951. St. Paul Chapter.

MINKOFF, Joel (Deborah) Res. 708 University Ave. SE, Mpls., 331-7133. Mpls. Student.


MORGAN, Brian R., AIA (Barbara) Vice President, Baker Assoc., Inc., 105 Peavey Bldg., Mpls. 55402, 339-8601; Res. 1716 Knox Ave. S., Mpls. 55403, 377-6059. Mpls. AIA Member.


MORGENSTERN, David AIA (Trudy) President, Construction Consultants, Inc., 609 Alworth Bldg., Duluth 55802, 218-727-8018; Res. 5820 London Rd., Duluth 55804, 525-1038. N.E. AIA Member.


MULLIN, James

MUNDT, Gerald E., AIA
(Diane) Principal, Wallace & Mundt, Architects, 5350 W. 78th St., Mpls. 55435, 831-3509; Res. 4212 Poplar Dr., Golden Valley 55422, 371-4834. Mpls. AIA Architect Designed Homes.

MUNDT, Jack A., AIA
Associate, Myers and Bennett Architects/BRW, 7101 York Ave., Mpls. 55435, 831-2300; Res. 48 Clarence Ave., Mpls. 55414, 331-1127. Mpls. AIA Member.

MUNDT, H. William, AIA
(Dianne) Vice President, Ellerbe Assoc., One Appletree Sq., Bloomington 55420, 853-2273; Res. 186-3rd Ave. S.E., New Brighton 55112, 636-519. Mpls. AIA Member. Contracts/Documents, Office Procedures.

MUNDT, Arthur E.
(Sue) Vice President & Secretary, Sissell, Belair & Green, 430 Oak Grove St., Mpls. 55403, 870-8924; Res. 3825 Plymouth Rd., Minnetonka 55343, 935-3160. Mpls. Assoc. Contracts/Documents.

MUNDT, Donald C.G., AIA
(Shirley) President and CEO, Ellerbe, One Appletree Square, Bloomington, 853-2226; Res. 6817 Dakota Trail, Edina 55435, 941-2333. St. Paul AIA Member. Legislative, Board of Directors, Planning & Finance.

MUNDT, Eugene C.

Write for your complimentary copy of "The Brick Story".

CANTEX
INDUSTRIES
Division of Harco Corporation
101 Ashworth Rd.
West Des Moines, Iowa 50265
Phone 515/223-1450
NELSON, Richard L.
(Florence) Johnson, Sheldon & Sorenson Architects, Inc., 5407 Excelsior Blvd., Mpls. 55416, 920-6856; Res. 3710 Cottonwood Lane, Plymouth 55441, 559-3309. Mpls. Associate. Historic Resources.

NELSON, Robert M., AIA
(Margaret) Res. 2589 Fisk St., Roseville 55113, 484-9027. St. Paul AIA Member. Energy.

NELSON, Robert Ray, AIA

NIELSEN, Richard L.

NIELSEN, Borg R.

NIPPER, Thomas K., AIA
(Victoria) Marketing Consultant, Rieke Carroll Muller Assoc., 1011 First St. So., Hopkins 55344, 935-6901; Res. 6357 Josephine Ave. So., Edina 55435, 941-2764. Mpls. AIA Member. Professional Development Programs.

NOEL, Michael
Res. 605 Ontario St. SE, Mpls. Mpls. Student.

NORDALE, David E., AIA

NORDBLOM, Donald O., AIA
(Lorraine) President, Nordbloom & Assoc., Inc., 12450 Wayzata Blvd., Minnetonka 55343, 546-5573; Res. Rt. 1, Box 144, Mound 55364, 472-4458. St. Paul AIA Member.

NORDGREN, Wayne R., AIA
(Judith) Vice President, Smiley Glotter Associates, Inc., 1021 LaSalle Ave., Mpls. 55403, 332-1401; Res. 5016 Ridge Road, Edina 55436, 933-8025. Mpls. AIA Member. Architect Designed Homes, Compensation Management.

NORMANDIN, Donald O., AIA

NYBERG, Garold R., AIA

O'BRIEN, Daniel S., AIA

O'BRIEN, James W., AIA

OGDAHL, Robert, AIA

OLSEN, Harold C., AIA

OLSEN, Richard, AIA
(Jennifer) Partner, Pauly Architects, Inc., 113 S. 5th Ave., St. Cloud 56301, 1-252-7490; Res. 3305 14th St. N., St. Cloud 56301, 1-252-0628. Mpls. AIA Member.

OLSON, Clarence T.

OLSON, Jerald B., AIA

OLSON, Kern C.

OLSON, Richard D.

OLSON, Wayne A., AIA
(Muriel) Vice President/Secretary, Toltz King Duvall Anderson, 1408 Pioneer Bldg., St. Paul 55101, 224-7891; Res. 2256 Sargent Ave., St. Paul 55101, 699-2400. St. Paul AIA Member.

OPSETH, Larry O., AIA

OSTERBERG, Thomas, AIA

OULMAN, Kenneth E.
OVICK, Jack L., AIA

OXTON, Lanier N., AIA

PAGE, Larry Alan

PAKALNS, Arijs, AIA

PALAIA, Nichola A., AIA

PALLATT, Jay W.

PALMOUST, LeRoy, AIA
(Arlene) Vice President, Armstrong, Torseth, Skold, Rydeen, 4901 Olson Hwy., Mpls. 55422, 545-3731; Res. 1633 Maryland Ave. S., Mpls. 55426, 545-2964. Mpls. AIA Member. Young Practitioners.

PENDERGRAST, Jerry A., AIA

PARKER, Leonard S., AIA
(Betty) President, The Leonard Parker Assoc., 430 Oak Grove, Mpls. 55403, 871-6864; Res. 3936 Wilmatt Hill, Minnetonka 55343, 935-2039. Mpls. AIA Member. Architecture Minnesota, T.F. Advancement of the Profession, Membership, Contracts/Documents, Vice President, Mpls. Chapter.

PATCH, Roger W., AIA
(Pauline) Vice President, Patch Erickson Madson, Inc., 2311 Wayzata Blvd., Mpls. 55405, 374-3490; Res. 1065 Tamarack Dr., Long Lake 55356, 473-9045. Mpls. AIA Member.

PARRISH, Willard C., AIA
(Virginia) President, Gauger-Parrish, Inc., 500 Pioneer Bldg., St. Paul 55101, 224-5691; Res. 911 Fairmount, St. Paul 55105, 227-2782. St. Paul AIA Member

PATES, Don, AIA

PAULSEN, Bent, AIA
(Dorothy) Bent Paulsen Architect, 1305 Oakview Lane N., Plymouth 55441, 545-3685; Res. 1305 Oakview Lane N., Plymouth 55441, 545-3685. Mpls. AIA Member. Historic Resources, Architect Designed Homes.

PAULSEN, Gary N., AIA
(Mary Jo) Gary N. Paulsen Architect, 4713 Colfax Ave. So., Mpls. 55409, 824-9264. Mpls. AIA Member.

PAULY, Robert F., AIA

PECK, John D., AIA
(Mary Jane) Partner, Damberg & Peck, 312 W. Superior St., Duluth 55802, 218-722-7467; Res. 4302 Robinson St., Duluth 55804, 218-525-2030. N.E. AIA Member.

PENN, William, AIA

PERBIX, Robert A., AIA
Res. 18030 Breeze Point Rd., Wayzata 55391, 473-5080. Mpls. AIA Member.

PERCICH, Angelo A., AIA
(Mary) Sr. Specifications Writer, Ellerbe Associates, One Appletree Sq., Bloomington 55420, 853-2477; Res. 540 So. Mississippi River Blvd., St.
PERRENOUD, Donald J., AIA  
(Barbara) President, Perrenoud Architects Inc., 162 So. Plaza Bldg., Mpls. 55416, 544-2773; Res. 6904 Mark Terrace Dr., Edina 55435, 941-6387. Mpls. AIA Member. Energy Architect.

PETTERSON, C. Warren, AIA  

PETTERSON, Gene S., AIA  

PETTERSON, Thomas S., AIA  

POHLMANN, Charles F.  

POPE, Jon R.  

POPE, Robert L., AIA  

PORTER, Sanford, AIA  

PRIEDITIS, Elmas A., AIA  
(Ina) Associate Director, Smiley-Glotter Assoc., Inc., 1021 LaSalle Ave. So., Mpls. 55403, 332-1401; Res. 6031 Benjamin St. N.E., Fridley 55432, 571-7230. Mpls. AIA Member. Architecture for Health.

QUANBECK, Robert M., AIA  
(Lydia) Principal, Sovik, Mathre, Sathrum & Quanbeck, 205 S. Water St., P.O. Box 390, Northfield 55057, 338-8679; Res. 219 Nevada St., Northfield 55057, 507-645-4577. Mpls. AIA Member.

RAND, Peter A.  

RANKIN, Paul  
1426 11th Ave. N.E., Brainerd 56401, Mpls. Student.

RAPSON, Ralph, FAIA  
(Mary) President, Ralph Rapson & Associates, Getty Bldg., 716 3rd St., White Bear Lake 55110, 429-5376; Res. 2119 4th St., White Bear Lake 55110, 429-8145. St. Paul AIA Member. Legislative, St. Paul Chapter Director.
RASCHE, J. David, AIA
(Doris) Store Architect, Dayton's,

RAUMA, John G., FAIA

REDMAN, Russell A., AIA

REESE, Frank, AIA
(Jean) Partner, Reese/Rova Associates, 5350 West 78th St., Edina 55435, 835-5411; Res. 6200 Chaska Road, Shorewood 55331, 474-9753. Mpls. AIA Member. Energy.

RESEUTEK, Dennis, AIA
(Judith) Vice President, The Leonard Parker Associates, 430 Oak Grove, Mpls. 55403, 871-6864; Res. 4001 Queen Ave. So., Mpls. 55410, 920-2049. Mpls. AIA Member. Public Education.

REHERFORD Robert M., Jr., (Nick)

RICE, Richard L., AIA
(Clara) Architects, Richard Rice- Architect, 500 So. Front St., Mankato 56001, 507-625-3632; Res. RFD 1, Madison Lake 56063, 507-243-3071. Mpls. AIA Member.
507-345-3577; Res. 802 Baker Ave.,
Mankato 56001, 507-345-5134, Mpls.
AIA Member.

ROETTGER, Joseph L., AIA
(Ann) Architect, J.L. Roettger, 15809
White Pine Drive, Wayzata 55391,
475-2376; Same. Mpls. AIA Member.

ROGERS, David E., AIA
(Donna) Project Architect, Bentz/
Thompson & Associates, 1234 Dain
Tower, Mpls. 55402, 335-1207; Res.
964 Goodrich, St. Paul 55105, 225-
0719. Mpls. AIA Member. Urban De-
sign.

ROHKOHL, Fritz C., AIA
(Arlene) Secretary/Treasurer Bergstedt
Wahlberg Bergquist Rohkohl, 400
Sibley St., St. Paul 55101, 222-3701;
Res. 7 Woodland Drive, Burnsville
55337, 890-2430. St. Paul AIA Mem-
ber. Compensation Mgm.

ROLANDO, Marcus
Res. 2220 Xylon Ave. No., Golden
Valley 55426, Mpls. Student.

ROOT, George L., AIA
(Doris) Treasurer/Secretary, Larson
and McLaren, Inc., 1020 Foshay
Tower, Mpls. 55402, 332-2581; Res.
4133 Garfield Ave. So., Mpls. 55409,
823-3901. Mpls. AIA Member. Office
Procedures.

ROVA, John, AIA
(Marion) Owner, John P. Rova/Archi-
tect, 416 Hamm Bldg., St. Paul 55102,
224-2311; Res. 4809 Woodlawn Blvd.,
Mpls. AIA Member, Mpls. Chpt. Di-
rector, Board of Directors, Bylaws.

ROVA, William M., AIA
(Bunny) Partner, Reese/Rova Asso-
ciates, 5350 West 78th St., Edina
55435, 835-5411; Res. 1428 Larch
Lane No., Plymouth 55441, 545-3637.
Mpls. AIA Member. Mpls. Chpt. Di-
rector.

RUDOQUIST, Raquel, AIA
Project Architect, Dayton Hudson
Properties, IDS Center, Mpls. 55402,
370-6412; Res. 48 Groveland Terrace,
Mpls. 55403. Mpls. AIA Member. Bldg.
Codes.

RUEDY, Mark
5808 10th Ave. So., Mpls. 55417,
Mpls. Student.

RUNYAN, David T., AIA
(Audrey) President, David Todd Run-
yan & Associates, 2412 Valentine Ave.,
St. Paul 55108, 645-2700; Res. 4508
No. Ave., Edina 55436, 929-6847.
Mpls. Director, Board of Directors,
Bylaws.

RYDEEN, James E., AIA
(Sandy) Secy/Treas., Armstrong, Tor-
seth, Skold, Rydeen, 4901 Olson Hwy,
Mpls. 55422, 545-3731; Res. 5605
Evergreen Lane N., Plymouth 55442,
559-5552, Mpls. AIA Member. Archi-
tect Selection Methods.

SAARI, Denes A.
(Maria) Partner, Saari & Forrai Photo-
graphy, 3085 Old Hwy. B, No. 11, St.
Paul 636-8292; Res. 3085 Old Hwy.
8 No. 11, St. Paul 55113, 636-8292.
St. Paul Prof. Affiliate.

SALMELA, David
(Gladys) Designer, Damberg & Peck
Architects, Inc., 524 1st National
Bank Bldg., Virginia 55792, 218-741-
7962; Res. 319 2nd St., Parkville
55773, 218-741-2727. N.E. Assoc.

SAMUELS, Benjamin F., AIA
(Elaine) Director of Marketing, Tros-
sen/Wright & Assoc. Arch., 161 E.
Marie Ave., West St. Paul 55118, 455-
2980; Res. 3545 Oak Chase Rd.,
Eagan 55123, 454-1487. St. Paul AIA
Member. Professional Development
Programs.

SANDBERG, Robert Y., AIA
(Marth) President, Robert Y. Sand-
berg & Associates, Inc., 505 E. 26th
St., Hibbing 55746, 218-263-7553;
Res. 2530 5th Ave. E., Hibbing 55746,
218-263-7553. N.E. AIA Member. Archi-
tecture for Health.

SATHRUM, Clinton L., AIA
(Marie) Principal, Sovik, Mathre,
Sathrum & Quanbeck, Box 390, North-
feld 55746, 507-645-4461; Res. 1428
Larch Lane No., Plymouth 55441, 545-3637.
Mpls. AIA Member. Historic Resources,
Energy.

SCHAEFER, Richard
Larsen Associates, 15612 Hwy 7,
Minnetonka 55334, 933-8111; Res.
1429 Crest Dr., Chaska 55318, 448-

SCHAFER, Edward G., AIA
(Dona) President, Partners of Archi-
tectural Concern, 205 Board of Trade
Bldg., Duluth 55802, 218-727-8502;
Res. 3019 Lester River Rd. Duluth
55804, 218-525-3348. N.E. AIA
Member. Energy.
Bravura. Avant Garde Elegance from Kohler.

Bravura. For the bold, uncluttered design of contemporary living. A complete line of newly designed faucets and fittings. Scaled to accentuate the decor of today's sophisticated bath and powder room.

Bravura. Sleek and distinctively modern. A creative blend of imaginative designs and Kohler craftsmanship. Choose from a selection of four lustrous finishes—satin or polished, 24 carat gold electroplate or chromium.

Bravura. Confident and commanding. Newest addition to the Kohler Faucet Collection. A dependable line of faucets for your bath and powder room.

For more information about Kohler plumbing products, write to Box CT, KOHLER CO. KOHLER, WISCONSIN 53044.

The Bold Look of Kohler.
ORNAMENTAL METAL STAIRS
Fabriacted To Architects
Owner's Specifications

C. W. OLSON, INC.
1310 QUINCY STREET N E
MINNEAPOLIS, MINNESOTA 55413
Phone (612) 335 1143

CARNEY INSULATION
when you care to Insulate the very best
SIMONS, Gerald A., AIA
Director of Project Managers, Hammel, Green & Abrahamson, 2675 University St., St. Paul 55114, 646-7501; Res. 4451 Upton Ave. So., Mpls. 55410, 922-0915. Mpls. AIA Member.

SLIGHT, Robert E., AIA

SMILEY, Saul C., FAIA
(Maxine) President, Smiley Gotter & Assoc., 1021 LaSalle Ave., Mpls. 55403, 332-1410; Res. 9700 Oak Ridge Trail, Minnetonka 55343, 933-1100. Mpls. Fellow Planning & Finance, North Central Regional Director.

SMITH, Alden C., AIA

SMITH, John Thomas

SMITH, Michael E., AIA

SORENSEN, Steve

SORENSEN, Wesley E., AIA

SORENSEN, Carl, AIA
Architect, Johnson Sheldon, Sorenson, 5407 Excelsior Blvd., Mpls. 55416, 920-6956; Res. 3249 Blackstone, St. Louis Park, 55416, 929-1097. Mpls. AIA Member.

(Continued on page 79)
### WHO'S WHO IN THE CONSTRUCTION INDUSTRY

<table>
<thead>
<tr>
<th>Organization</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minn. Federation of Engineering Societies</td>
<td>Allen B. Benzick, Exec. Dir., 1821 University Ave., Rm. 253, St. Paul 55104, 646-2893</td>
</tr>
<tr>
<td>Minn. Lathing &amp; Plastering Bureau</td>
<td>Clint Fladland, Exec. Dir., 795 Raymond Ave., St. Paul 55114, 646-0208</td>
</tr>
<tr>
<td>Minnesota Masonry Institute</td>
<td>Howard Noziska, Exec. Dir., 7851 Metro Pkwy., Suite 103, Mpls. 55420, 854-0196</td>
</tr>
<tr>
<td>Minnesota Painting &amp; Decorating Ass'n.</td>
<td>Jesse A. Marks, Exec. Sec'y., 2485 Canaby Drive, No. 19, St. Paul 55117, 483-1125</td>
</tr>
<tr>
<td>Minn. Society American Institute of Architects</td>
<td>Daniel J. Sheridan, Exec. Dir., 314 Clifton Ave. S., Mpls. 55403, 874-8771</td>
</tr>
<tr>
<td>Minnesota Architecture Council</td>
<td>Donald E. Sullivan, Exec. VP, 100 E. 14th St., Mpls. 55403, 338-4480</td>
</tr>
<tr>
<td>Minnesota Ceramic Tile Industry</td>
<td>Eugene Grazzini, Jr., Promotion Chr., 620 16th Ave. So., Mpls. 55454, 336-7735</td>
</tr>
<tr>
<td>Minnesota Concrete Products Ass'n.</td>
<td>Allen B. Benzick, Exec. Dir., 1821 University Ave., Rm. 253, St. Paul 55104, 646-2893</td>
</tr>
<tr>
<td>Minnesota Electrical Ass'n., Inc.</td>
<td>Harry W. Kane, CAE, Mgr., 3100 Humboldt Ave., Mpls. 55408, 827-6117; John M. Ferguson, Member Serv. Rep. 3100 Humboldt Ave. So., Mpls. 55408, 827-6117</td>
</tr>
</tbody>
</table>

**American Institute of Planners-Minn. Chapter**
Bob Ready, President, Mpls. Riverfront Development, Coord. Board, 235 City Hall, Mpls. 55415, 348-6558

**Associated General Contractors of Minn. Inc.**
William H. Gary, Manager, 45 E. 8th St., St. Paul 55101, 291-1102

**Builders Exchange of St. Paul**
Roger E. Miller, Exec. Secy., 445 Farrington St., St. Paul 55103, 224-7545

**Consulting Engineers Council of Minnesota**
Earl G. Oxley, Exec. Dir., 5009 Excelsior Blvd., Suite 126, Mpls. 55416, 927-8705 or 922-9696

**Duluth Builders Exchange**
Roy Howard, Manager, Duluth Builders Exchange, 206 Hotel Duluth, Duluth 55802, 218-722-2836

**Environmental Balance Assn. of Minn. Inc.**
David M. Fradin, President, 1030 Minnesota BIdg., St. Paul 55101, 222-1845

**League of Minnesota Cities**
Mentor C. Addicks, Jr., Legis. Counsel, 300 Hanover BIdg., St. Paul 55101, 222-2861

**Mpls. Assn. of BIdg. Owners & Mgrs. Inc.**
Arthur W. Olofson, Exec. Sec'y., 927 Soo Line BIdg., Mpls. 55402, 338-8627

**Minneapolis Builders Association**
C.M. McGlennen, Exec. VP, 7841 Wayzata Blvd., Mpls. 55426, 644-4261

**Minneapolis Builders Exchange**
Enoch N. Peterson, Sec. & Genl. Mgr., 1123 Glenwood Ave., Mpls. 55405, 377-9600

**Minnesota Apartment Ass'n.**
Ed A. Harrington, Exec. VP, 1821 University Ave., Suite 360, St. Paul 55104, 646-9617

**Minnesota Asphalt Pavement Ass'n.**
John V. Hoene, Exec. VP, 555 N. Wabasha, Room 204, St. Paul 55102, 224-4734

**Minnesota Ass'n. of Commerce & Industry**
Oliver S. Perry, Pres., 200 Hanover BIdg., 480 Cedar St., St. Paul 55101, 222-9591

**Minnesota Electric Ass'n. of Commerce & Industry**
Ronald C. Loberg, Exec. Dir., 314 Clifton Ave. S., Mpls. 55403, 874-8771

**Minnesota Electric Ass'n. of Commerce & Industry**
200 Christie BIdg., Duluth 55802, 218-722-5013

**Minnesota Educational League, Inc.**
Robert E. Lieb, Exec. Dir., 4600 W. 77th St., Mpls. 55435, 835-4888

**Minnesota Masonry Institute**
Howard Noziska, Exec. Dir., 7851 Metro Pkwy., Suite 103, Mpls. 55403, 854-0196

**Minnesota Masonry Institute**
Bob Ready, President, Mpls. Riverfront Development, Coord. Board, 235 City Hall, Mpls. 55415, 348-6558

**Minnesota Masonry Institute**
William H. Gary, Manager, 45 E. 8th St., St. Paul 55101, 291-1102

**Builders Exchange of St. Paul**
Roger E. Miller, Exec. Secy., 445 Farrington St., St. Paul 55103, 224-7545

**Consulting Engineers Council of Minnesota**
Earl G. Oxley, Exec. Dir., 5009 Excelsior Blvd., Suite 126, Mpls. 55416, 927-8705 or 922-9696

**Duluth Builders Exchange**
Roy Howard, Manager, Duluth Builders Exchange, 206 Hotel Duluth, Duluth 55802, 218-722-2836

**Environmental Balance Assn. of Minn. Inc.**
David M. Fradin, President, 1030 Minnesota BIdg., St. Paul 55101, 222-1845

**League of Minnesota Cities**
Mentor C. Addicks, Jr., Legis. Counsel, 300 Hanover BIdg., St. Paul 55101, 222-2861

**Mpls. Assn. of BIdg. Owners & Mgrs. Inc.**
Arthur W. Olofson, Exec. Sec'y., 927 Soo Line BIdg., Mpls. 55402, 338-8627

**Minneapolis Builders Association**
C.M. McGlennen, Exec. VP, 7841 Wayzata Blvd., Mpls. 55426, 644-4261

**Minneapolis Builders Exchange**
Enoch N. Peterson, Sec. & Genl. Mgr., 1123 Glenwood Ave., Mpls. 55405, 377-9600

**Minnesota Apartment Ass'n.**
Ed A. Harrington, Exec. VP, 1821 University Ave., Suite 360, St. Paul 55104, 646-9617

**Minnesota Asphalt Pavement Ass'n.**
John V. Hoene, Exec. VP, 555 N. Wabasha, Room 204, St. Paul 55102, 224-4734

**Minnesota Ass'n. of Commerce & Industry**
Oliver S. Perry, Pres., 200 Hanover BIdg., 480 Cedar St., St. Paul 55101, 227-9591

**Minnesota Electric Ass'n. of Commerce & Industry**
200 Christie BIdg., Duluth 55802, 218-722-5013

**Reg. Congress of Construction Employers**

**St. Paul Ass'n. of BIdg. Owners & Mgrs. Inc.**

**St. Paul—NECA**
Wesley Ohman, Chapter Mgr., 305 Minnesota State Bank BIdg., 200 S. Robert St., St. Paul 55107, 224-3377

**Twin Cities Piping Industry Ass'n. Inc.**
Donald F. Magnuson, Exec. VP, University Park Plaza, Suite 304, 2829 University Ave. SE, Mpls. 55414, 378-7600
SOUKUP, Thomas R.  

SOVIK, Edward A., FAIA  

SPERL, Robert, AIA  

STADSVOLD, Byron, AIA  

STAGEBERG, James, FAIA  

STAHLE, Thomas H., AIA  

STANNOY, Ronald E.  
(Draftsman, Stanius & Assoc., 168 W. Austin St., Duluth 55803, 218-724-1131; Res. 120 E. 7th St., Duluth 55805, 218-727-6280. N.E. Assoc.

STANMORE, J. Leonard, AIA  
Prof. Associate, Ellerbe Assoc., Inc., One Appletree Square, Bloomington 55420, 853-2275; Res. 15711 Boulder Creek Dr., Minnetonka 55343, 935-5323. St. Paul AIA Member. Urban Design.

STANTON, Scott  

STEBBINS, Kenneth R., AIA  
(Linda) Coordinating Planner, Physical Planning, University of Minnesota, 503 Morrill Hall, 100 Church St. SE, Mpls. 55455, 373-5765; Res. 7638 Landau Drive, Bloomington 55438, 941-7023. Mpls. AIA Member. Urban Design. Architecture Minnesota.

STEGNER, L.E., AIA  

STELTER, Willis, AIA  

STENERSON, Maurice, AIA  
(Susan) Retired; Res. 6104 Loren Drive, St. Paul 55106, 771-4905. Mpls. AIA Member. Urban Design. Architecture Minnesota.

STENERSON, Maurice, AIA  
(Beverly) Principal, St. Paul 55102, 221-1300; Res. Box 74, 121 Lake Ave., Stillwater 55082, 439-5329; Res. Same. St. Paul AIA Member. Historic Resources.

STOLPE, Duane M., AIA  

STOLTE, Sidney L., FAIA  
(Elizabeth) Draftsman-Designer, Bentz/Thompson, 1234 5th Tower, Mpls. 55402, 335-1207; Res. 6105 Lincoln Dr., No. 134, Edina 55435, 690-4315. St. Paul Assoc. Historic Resources.

STOVALL, David, AIA  
(Nancy) Project Architect & Spec. Writer, Korsunsky Kranck Architects, 600 S. County Rd. 18, Mpls. 55426, 546-5381; Res. 3500 W. 29th St., Mpls. 55416, 922-5735. Mpls. AIA Member. Energy.

STRAHAN, David M., AIA  
(Susan) Project Manager, Setter Leach & Lindstrom, Inc., Architects & Engineers, 1011 Nicollet Mall, Mpls. 55403, 338-8741; Res. 5150 Gladstone Ave. So., Mpls. 55419, 824-6611. Mpls. AIA Member.

STRAVES, Carl B., AIA  
Retired; Res. Route 3, East of City, Twin Falls, ID 83301. Emeritus.

SULLIVAN, Charles, AIA  

SULLIVAN, David R., AIA  

SWANSON, Karl E., AIA  
(Gene) Principal, Principal, The Hodne/Stageberg Partners, 116 E. 22nd St., Mpls. 55404, 371-1700; Res. 2507 W. 52nd St., Minneapolis 55410, 352-7455. Mpls. AIA Member. Historic Resources, Convention.

SWANSON, Hubert H., AIA  
(Madeline) Retired; Res. P.O. Box 2953, Carmel, CA 93921, 408-625-1585. Mpls. Emeritus.

SWEDBERG, Daniel L., AIA  

SWEITZER, Jeffery R.  
(Construction) Planning, University of Minnesota, 503 Morrill Hall, 100 Church St. SE, Mpls. 55455, 373-5765; Res. 7638 Landau Drive, Bloomington 55438, 941-7023. Mpls. AIA Member. Urban Design. Architecture Minnesota.
935-9126. Mpls. Assoc. Young Practitioners, Professional Development Program Public Education.

TADSEN, Ronald, AIA
(Eileen) Facilities Architect, Metro Airports Commission, 6040-28 Ave. So., Mpls. 55450, 726-5282; Res. 5213 Abercrombie Dr., Edina 55435, 941-3559. Mpls. AIA Member.

TAMMEN, Cecil M., AIA
(Abercrombie Dr., Edina 55435, 941-3559. Mpls. AIA Member.

THISTLETHWAITE, David R., AIA

THORSTENSON, Jon P., AIA

TOLLEFSON, Lee, AIA
(Susam) Architecture, Anderson, Tollefson Architects, 867 Grand Ave., St. Paul 55102, 221-1300; Res. 107 W. 52nd St., Mpls. 55419, 822-6485. Mpls. AIA Member. School Liaison, Council of Small Firms.

TORBERT, Donald R.
Professor of Art History, University of Minnesota, 108 Jones Hall, Mpls. 55455; Res. 2116 Irving Ave. So., Mpls. 55405, 377-0818. Mpls. Honorary.

TOWNSEND, George B., AIA

TRAYNOR, Fred V., AIA

TRAYNOR, Fred V., AIA
(Mary Ann) Vice President, Thrush & Thorsoh Associates Inc., 1000 Title Insurance Bldg., Mpls. 55401, 339-7671. Mpls. AIA Member. Contracts/Documents, Jt. Committee with Engineers.

TRUSZINSKI, Peter L., AIA

TRUSZINSKI, Peter L., AIA
VIEVERING, Wm. A., Jr., AIA

VERHEY, James M.

VOGT, Edward J., AIA

VOGT, James D., AIA

VON BUSCH, Keith A., AIA
(Elaine) Vice President, Thorsen & Busch Assoc., Inc., 1000 Title Insurance Bldg., Mpls. 55401, 339-7671; Res. 2900 Jersey Ave. No., Mpls. 55427, 545-7631. Mpls. AIA Member. Office Procedures.

VOZA, Albert G., AIA

WAGNER, David, AIA
Berstedt Wahlberg Bergquist Rohkohl, 100 Sibley St., St. Paul 55101, 222-8701; Res. 1074 Lombard, St. Paul 55105, 227-3648. St. Paul AIA Member.

WAGNER, Donovan, AIA

WAHLBERG, Charles D., AIA
(Reba) President, Bergstedt Wahlberg Bergquist Rohkohl, 400 Sibley St., St. Paul 55101, 222-3701; Res. 7620 Xerxes Ave. So., Edina 55423, 866-8615. Mpls. AIA Member. Insurance Employee Benefit Trust.

WAJIARVI, Kenneth H., AIA

WALLACE, W. Glen, AIA

WALSH, Dennis F., AIA
(Joyce) Vice President, Director of Architecture, Ellerbe Associates, Inc., One Appletree Sq., Bloomington 55420, 853-2351; 2810 Monterey Pkwy, St. Louis Park 55416, 926-5212. Mpls. AIA Member. T.F. Advancement of the Profession, School Liaison, Urban Design.

WATTEN, Vern, AIA
(Jacqueline) Vice President/Design, Bissell Belair & Green, Inc., 430 Oak Grove, Mpls. 55403, 870-8924; Res. 5370 Eureka Rd., Excelsior 55331, 777-5159. Mpls. AIA Member. Historic Resources.

WEAVER, John K., AIA
(Verba) President, Bissell Belair & Green Inc., 430 Oak Grove, Mpls. 55403, 870-8924; Res. 8331 Hidden Bay Trail N., Lake Elmo 55042, 777-5551. St. Paul AIA Member. Legislative.

WEBER, Neil, AIA

WEES, Donald J., AIA

WEGLEITNER, Alphonse, AIA
(Perry) President Matson, Wegleitner, Abendroth, Architects, Inc., 5217
WEICHSELBAUM, Joseph J., AIA
(Therese) President, Weichselbaum
and Associates, Inc., 1903 S. Broad­
day, Rochester 55901, 507-288-2687;
Mpls AIA Member.

WEIDT, John L., AIA
John Weidt Assoc., Inc., 43 Olin
way, Rochester 55901, 507-288-2687;
Mpls AIA Member.

WEIGEL, T., AIA
(Terence) Architect, Wiegand,
& Associates, Inc., Box 519, St. Cloud
56301, 831-0283. Mpls Prof. Affil.

WEINGARTEN, Fredric, AIA
Owner, Photogenesis, 430 Oak Grove,
Mpls. 55416, 544-8941; Res. 202 W.
Park Rd., Hopkins 55343, 938-5676.
Mpls. AIA Member.

WEINZETL, Larry M.
Architect, G.T. Mork & Co. Inc.,
6860 Washington Ave. So., Eden
Prairie 55344, 941-3840, Res. 3026 W.
Lake St., Mpls. 55416, 925-4084.

WEMLINGER, Fredric, AIA
President, Weilinger-Remely & Asso­
ciates, Inc., Box 519, St. Cloud 56301,
1-253-2100; Res. Rt. No. 5, St. Cloud
56301, 1-743-2640. Mpls. AIA Member.
Insurance Employee Benefit Trust.

WENTZ, Curtiz
(Audrey) President, Wentz Associates,
Inc., Suite 402, 7300 France Ave.
W., Mpls. 55437, 831-1180; Res.
10417 Johnson Ave. So., Bloomington
55343, 933-7797. Mpls Prof. Affiliate.
Young Practitioners.

WEST, Stuart
Owner, Photogenesis, 430 Oak Grove,
Mpls. 55403, 871-0333; Res. 2905
2nd Ave. So., Mpls. 55408, 824-6102.
Mpls. Prof. Affil. Young Practitioners
Architecture Minnesota.

WESTBY, Douglas P., AIA
(Anne) Architect, Ellerbe Associates,
Inc., One Appletree Sq., Bloomington
55420, 853-2000; Res. 4405 17th Ave.
So., Mpls. 55407, 721-5442. Mpls.
AIA Member. Historic Resources, Ex­
hibits/Displays.

WESTERHAM, Marinus
Associate, Damberg & Peck, 312 W.
Superior St., Duluth 55802, 218-722-
7467; Res. 1706 Kenwood Ave.,
Duluth 55811, 218-728-2469, N.E.
Assoc.

WHEELER, Eric, AIA
(Vicki) Asst. Director of Physical
Planning and Visiting Lecturer, Uni­
versity of Minnesota, 503 Morrill Hall,
Mpls. 55455, 373-5765; Res. 2807
Dean Blvd., Mpls. 55416, 926-0183.
Mpls. AIA Member. Board of Direc­	ors, School Liaison, Mpls. Chapter
Director, Architecture Minnesota.

WHIPKEY, James, AIA
(Nancy) Principal, Seiberlich, Whipkey,
& Gjerstad, Inc., 1339 N. Pascal, St.
Paul 55108, 646-1955; Res. 15229
Sq. Lake Tr. No., Stillwater 55082,

WHITEMAN, Richard, AIA
(Jean) President, Fugelso, Porter,
Simich & Whiteman, 1100 Alworth
Bldg., Duluth 55802, 218-727-8841;
Res. 3500 E. 3rd St., Duluth 55804,
218-728-4559. N.E. AIA Member.
Historic Resources Energy, Member
Board of Registration.

WICK, William T., AIA
(Esther) Architect, Wick Kagermeier
Skaar, Inc., 455 Martin Bldg., Mankato
56001, 507-388-6271; Res. 610 So.
Ave., No. Mankato 56001, 507-625-
3755. Mpls. AIA Member.

WILBUR, Fred E., Jr., AIA
(Del) Specifications Writer, RCM Assoc.,
13418 Excelsior Blvd., Mpls. 55434,
933-2011; Res. 13418 Excelsior Blvd.,
Minnetonka 55343, 933-1577, Mpls.
AIA Member.

WILBUR, Fred E., Jr., AIA
(Beverly) Architect, Wick Kagermeier
Skaar, Inc., 455 Martin Bldg., Mankato
56001, 507-388-6271; Res. 610 So.
Ave., No. Mankato 56001, 507-625-
3755. Mpls. AIA Member.

WILDOM, Richard, AIA
(Anne) Architect, 2294 County Rd.
F., White Bear Lake 55110, 429-0614;
Res. Same. St. Paul AIA Member.

WILLIAMS, Alan, AIA
Alan Williams Architects, 13418 Ex­
celsior Blvd., Minnetonka 55343, 933-
2011; Res. 13418 Excelsior Blvd.,
Minnetonka 55343, 933-1577, Mpls.
AIA Member.

WILLIAMS, Lorenzo D., AIA
(Marian) President, Williams/O’Brien
Associates, Inc., 45 So. 9th St., Mpls.
55402, 338-8981; Res. 2720 River
Road West, Mpls. 55406, 724-7826.
Mpls. AIA Member. School Liaison,
President-elect NCARB.

WILLIAMS, Paul L., AIA
(Sandy) Owner, Paul Williams Archi­
tect, 5221 France Ave. So., Mpls.
55410, 927-6033 or 507-285-5881;
Res. Same. 927-6033. Mpls. AIA
Member. Young Practitioners Council
of Small Firms.

WILWERDING, A.J., AIA
(Anne) Owner, Paul Williams Archi­
tect, 5221 France Ave. So., Mpls.
55410, 927-6033 or 507-285-5881;
Res. Same. 927-6033. Mpls. AIA
Member. Young Practitioners Council
of Small Firms.

WHEELER, Eric, AIA
(Vicki) Asst. Director of Physical
Planning and Visiting Lecturer, Uni­
versity of Minnesota, 503 Morrill Hall,
Mpls. 55455, 373-5765; Res. 2807
Dean Blvd., Mpls. 55416, 926-0183.
Mpls. AIA Member. Board of Direc­
tors, School Liaison, Mpls. Chapter
Director, Architecture Minnesota.

WHIPKEY, James, AIA
(Nancy) Principal, Seiberlich, Whipkey,
& Gjerstad, Inc., 1339 N. Pascal, St.
Paul 55108, 646-1955; Res. 15229
Sq. Lake Tr. No., Stillwater 55082,

WHITEMAN, Richard, AIA
(Jean) President, Fugelso, Porter,
Simich & Whiteman, 1100 Alworth
Bldg., Duluth 55802, 218-727-8841;
Res. 3500 E. 3rd St., Duluth 55804,
218-728-4559. N.E. AIA Member.
Historic Resources Energy, Member
Board of Registration.

WICK, William T., AIA
(Esther) Architect, Wick Kagermeier
Skaar, Inc., 455 Martin Bldg., Mankato
56001, 507-388-6271; Res. 610 So.
Ave., No. Mankato 56001, 507-625-
3755. Mpls. AIA Member.

WILBUR, Fred E., Jr., AIA
(Beverly) Architect, Wick Kagermeier
Skaar, Inc., 455 Martin Bldg., Mankato
56001, 507-388-6271; Res. 610 So.
Ave., No. Mankato 56001, 507-625-
3755. Mpls. AIA Member.
ZUBER, Jeri, AIA
President, Zuber Architects, Inc., 836 W. 79th St., Mpls. 55420, 884-5311; Res. 2422 Clinton Ave., Mpls. 870-0411. St. Paul AIA Member. Membership, Honor & Special Awards, Secretary, St. Paul Chpt.

ZUMWALDE, Thomas J., AIA
Project Manager, Miller Hanson Westerbeck Bell, 100 N. 6th St., Mpls. 55403, 338-7700; Res. 4652 Zenith Ave. So., Mpls. 55410, 920-0287. Mpls. AIA Member. Young Practitioners, Historic Resources.

CRONCO-LITE ENERGY SAVING ALUMINUM PRODUCTS
KEEP THE OUTDOORS IN ITS PLACE...

The CTS energy saving wall system and thermal break door jamb meet all Minnesota State Code requirements . . . and your requirements for a versatile, competitively priced glazing system. No metal-to-metal contact virtually eliminates frost or condensation, even at temperatures as low as -30° F. Keeps insides cooler in summer, too. Cronco-Lite energy saving aluminum products are practical for both new and remodelled buildings.

For specific answers to your building questions, write or call: Cronco-Lite division of Cronstroms Manufacturing, Inc., 4225 Hiawatha Avenue South, Minneapolis, MN 55406 (621) 722-6671

WUNDER KLEIN DONOHUE CO.
1123 GLENWOOD AVE.
MPLS., MINN. 55405
612-374-5050

cement / dry wall / insulation
Organizations
Directory of Firms and Members
Employing MSA Members

Ackerberg & Associates, Inc.  
1016 Marquette Ave., Mpls. 55403, 336-7781

Ackermann & Associates, Inc.  
Midwest Federal Building, Suite 403, 50 E. 5th St., St. Paul 55101, 226-8888

The Adkins Association, Inc.  
1500 Pioneer Bldg., St. Paul 55101, 224-8800

The Adkins Association  
4307 E. 50th St., Mpls. 55417, 721-2380

AEI Design, Inc.  
212 W. Franklin, Mpls. 55404, 871-7447

Anderson, Tollefson Arch., Inc.  
1358 867 Grand, St. Paul 55105, 227-3614

Architects IV  
1100 Alworth Bldg., Duluth 55802, 218-727-8841

Architects Plus  
Box 367, Faribault 55021, 336-6713, 507-1100

The Architectural Alliance  
400 Clifton Ave., Mpls. 55403, 871-5703

Architectural Design Group, Inc.  
1220 4th Ave. S.W., Rochester 55901, 507-288-8100

The Architectural Offices  
4941 So. France Ave. E., Mpls. 55410, 920-5588

Architectural Resources  
126 E. Superior St., Duluth 55802, 218-727-8481

Architectural Resources  
704 E. Howard St., Hibbing 55746, 218-263-6868

Architectural Systems  
14791 60th St. N., Stillwater 55082, 439-8836

Armstrong, Torseth, Skold, Rydeen  
4901 Olson Memorial Hwy., Mpls. 55422, 545-3731

Associated Architects  
244 So. Hamline, St. Paul 55105, 698-0808

Associated Energy Consultants, Inc.  
7505 West Hwy. 7, Mpls. 55426, 933-3250

ATELIER-ONE Architecture  
25 University Ave. S.E., Suite 309, Mpls. 55414, 379-2648

Baker Associates  
105 Peavey Bldg., 730-2nd Ave. So., Mpls., 55402, 339-8601

Bather, Ringrose, Wolsfeld, Inc.  
7101 York Ave., Edina 55545, 831-2300

Dennis L. Batty & Associates  
258 Humboldt Ave. No., Mpls. 55405, 771-8841

Bernard W. Benz/Milo Thompson & Associates, Inc.  
1234 Dain Tower, Mpls. 55402, 335-1207

Bergstedt, Wahlberg, Bergquist, Rohkohl  
400 Sibley St., St. Paul 55101, 222-3701

Bernstein Associates  
7711 Country Club Dr., Mpls. 55427, 545-8319

Beta Associates  
401A N. Main St., Box 453, Austin 55912, 439-545-3731

Bettens, Townsend, Stolte & Comb, Inc.  
1437 Marshall Ave., St. Paul 55104, 646-2658

Birkeland Architects, Inc.  
1111 Hwy 25 No., Buffalo 55313, 1-682-1782

Bissell, Belair & Green  
430 Oak Grove, Mpls. 55403, 870-8924

Birger, Belair & Green  
608 Glenwood St., Duluth 55803, 218-727-8018

Blumentals/Architecture, Inc.  
312 W. Superior St., Duluth 55802, 218-741-7962

Brauer & Associates, Inc.  
2025 1111 Hwy 25 No., Buffalo 55313, 1-682-941-1660

Brauer, Bowers, Design Photography  
1122 So. Oak St., Lake City 55041, 1-345-2025

Brauer & Associates, Inc.  
6400 Flying Cloud Dr., Eden Prairie 55344, 941-1660

Brown & Associates, Inc.  
300 Clifton Ave., Mpls. 55403, 870-7117

Brutger Companies  
2345 Rice St., St. Paul 55113, 483-6701

Brothers, Bowers Design Photography  
1122 So. Oak St., Lake City 55041, 1-345-2025

Bureau & Associates, Inc.  
2345 Rice St., St. Paul 55113, 483-6701

Robert Burow Architects, Inc.  
750 So. Plaza Dr., Lake City 55041, 1-345-2025

Brutger Companies  
2250 So. France Ave. E., Mpls. 55410, 331-3313

Brutger Companies  
2345 Rice St., St. Paul 55113, 483-6701

Bureau & Associates, Inc.  
2250 So. France Ave. E., Mpls. 55410, 331-3313

Robert Burow Architects, Inc.  
750 So. Plaza Dr., Lake City 55041, 1-345-2025

Brutger Companies  
2250 So. France Ave. E., Mpls. 55410, 331-3313

The Cerny Associates, Inc.  
700 Chamber of Commerce Bldg., 15 So. 5th St., Mpls. 55402, 339-8371

Close Associates, Inc.  
3101 E. Franklin Ave., Mpls. 55406, 339-0979

Community Design/Development Services  
102 Main St. So., Hutchinson 55350, 1-896-0173

Construction Consultants  
609 Alworth Bldg., Duluth 55802, 218-727-8018

Constructive Design, Architects  
6500 Barrie Rd., Mpls. 55435, 926-2990

Contract Service Associates  
12805 State Hwy 55, Mpls. 55441, 540-5362

James M. Cooperman Arch.  
400 Sherdla Plaza S., Mpls., 55427, 545-0409

Corwin Seppanen & Associates, Inc.  
1006 Pioneer Bldg., St. Paul 55101, 225-7881

Cottle-Herman Architects, Inc.  
3100 W. Lake St., Mpls. 55416, 925-2425

Crites, Inc.  
100 1st St. Mo., Mpls. 55401, 338-4761

Cunningham Architects  
100 1st St. No., Mpls. 55401, 338-4761

Cunningham Architects  
1226 Marquette Ave., Mpls. 55403, 339-0313

Daberg & Peck Architects, Inc.  
524 First National Bank, Virginia 55792, 218-741-7962

Daberg & Peck Architects  
312 W. Superior St., Duluth 55802, 218-722-7467

Daytons  
700 Nicollet Mall, Mpls. 55402, 375-2950

Dayton Hudson Properties  
777 Nicollet Mall, 13th Floor IDS Tower, Mpls. 55402, 370-5564

Dekker Associates, Architects  
2421 Irving Ave. S., Mpls. 55405, 374-5188

Design Partnership  
920 Nicollet Mall, Suite 300, Mpls. 55402, 338-8889

Design Through Research  
100 N. 6th St., Mpls. 55403, 332-8433

Dickey/Kodet/Architects, Inc.  
4930 France Ave. So., Edina 55410, 920-3993

Design Two, Inc.  
364 Second St., Exselsior 55331, 474-4323

Dunwoody Institute  
818 Wayzata Blvd., Mpls. 55403, 374-5800

Dykins Assoc.  
2950 Metro Drive, Bloomington 55420, 854-3363
The Beautiful RUSTIC Look of Yesterday...
With the Smooth, Easy Care Surface of Tomorrow
FIRE FLASHED CLAYSTONES COLORS

- BROWN RANGE
- TAN RANGE
- RED RANGE
- FULL RANGE
SUGGESTED CLAYSTONES PATTERNS

PATTERN #1
PATTERN #2
PATTERN #3
PATTERN #4
PATTERN #6
PATTERN #9
PATTERN #10
PATTERN #11
PATTERN #12
PATTERN #13

8" HEX.
4-1/2" HEX*
2" x 2"
4" x 4"
6" x 6"
8" x 8"

8" BRICKPOINT*
SPANISH
2" x 4"
3" x 6"
4" x 8"
3" x 12"
6" x 12"

TRIM:
BULLNOSE TO FIT ALL SIZES
COVE BASE*
Q3565 BASE

WEDGE TILE FOR CIRCULAR PATTERN

*MADE ON REQUEST ONLY
SPECIFICATIONS FOR INSTALLATION

CLAYSTONES

by NEMADJI TILE AND POTTERY COMPANY, INC.

SCOPE: The tile contractor for tile work shall finish all labor and equipment, deliver, install, and furnish tile.

MATERIALS: Nemadji Claystones Tile shall be unglazed, hand-molded tile, made of natural clays, fire flashed as manufactured by Nemadji Tile and Pottery Company, Kettle River, MN. Tile shall conform to published specifications of Nemadji Tile and Pottery Company, Inc.

INSTALLATION: Except as otherwise specified, tile shall be installed, grouted, cleaned, protected, and cured in accordance with the instructions for Claystones tile in the following American National Standards Institute specifications.

American National Standard Specification
(a) A108.3-1967 for installation of Claystones in portland cement mortar.
(b) A108.4-1968 for installation of Claystones with water-resistant organic adhesives.
(c) A108.5-1967 for installation of Claystones with dry-set portland cement mortar.
(d) A108.6-1969 for installation of Claystones with epoxy mortar on plywood. Grout with a sanded latex portland cement or epoxy grout.

TEST
(average of 3 samples)

<table>
<thead>
<tr>
<th>Absorption (%) — ASTM: C67</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>Red</td>
</tr>
<tr>
<td>Brown</td>
</tr>
<tr>
<td>Tan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Abrasion (wear index) — ASTM: C501</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>Red</td>
</tr>
<tr>
<td>Brown</td>
</tr>
<tr>
<td>Tan</td>
</tr>
</tbody>
</table>

NEMADJI TILE & POTTERY COMPANY
Kettle River, Minnesota 55757
(218) 273-4311
For any questions, ask for Joe D'Antoni
G. Edwards Photography
5640 Newton Ave. So., Mpls. 55419, 920-1848

Ekberg & Associates, Inc.
5851 Duluth St., Golden Valley 55422, 855-8813

Ellerbe Architects
One Appletree Square, Bloomington 55420, 1853-2000

Ellerbe Architects
960 W. 1st National Bank, St. Paul 55101, 227-7035

Arvid E. Elness Architects
288 Butler Square, 100 No. 6th St., Mpls. 55403, 339-5508

Richard Evjen Associates
Box 152, Hudson, WI 54016, 715-386-2658

H.W. Fridlund
4501 Minnetonka Blvd., St. Louis Park 55446, 920-3080

Fugels, Porter, Simich & Whiteman
1100 Alworth Bldg., Duluth 55802, 218-727-8841

Freerks Sperl Flynn
1780 W. 7th St., St. Paul 55116, 690-2431

Alfred French & Associates
314 Clifton Ave., Mpls. 55403, 871-3650

H.A. Gaugers, Parrish, Inc.
500 Pioneer Bldg., St. Paul 55101, 224-5691

General Mills, Inc.
9000 Plymouth, Golden Valley 55427, 540-3377

Genesis Architecture
Box 107, Willmar 56201, 236-8663

Howard Golitz Architectural Services
1108 Nicollet Mall, Mpls. 55403, 332-8901

The Grady Company
4000 IDS Center, Mpls. 55402, 332-3066

Graffunder Associates, Inc.
221 First National Bank Bldg., Wayzata 55391, 473-6727

Greenwich Design
910 1/2 Excelsior Ave. W., Box 611, Hopkins 55343, 935-2574

Ronald Gridley, Consulting Engineer
4903 So. Cedar Lake Rd., Mpls. 55416, 377-3164

Griswold & Rauma Architects, Inc.
720 Second Ave. So., Mpls. 55402, 339-3071

Grosz & Anderson
304 Second Ave. N., Box 1455, Grand Forks, ND 58201, 701-772-7205

2331 University Ave. SE, Mpls. 55414, 378-1700

Hammel, Green & Abrahamson, Inc.
2675 University Ave., St. Paul 55114, 646-7501

Robert D. Hanson, Architect
7515 Wayzata Blvd., Mpls. 55426, 544-4122

Hendrix Associates, Inc.
670 Sexton Bldg., Mpls. 55415, 339-7966

Heningson, Durham & Richardson, Inc.
2950 Metro Drive, Suite 108, Mpls. 55420, 854-6766

Rodney Henslin, AIA
169 E. Moreland W., St. Paul 55118, 457-0199

Eugene E. Hickey & Associates
6950 France Ave. So., Suite 209, Mpls. 55435, 920-1881

The Hill District Design Co.
366 Selby Ave., St. Paul 55102, 224-3318

Hills, Gilbertson & Fisher, Inc.
6311 Wayzata Blvd., Mpls. 55416, 545-5678

Hirsch Assoc., Inc.
619 Second St., Hudson, WI 54016, 436-5241, 715-386-5161

The Hodne Stageberg Partners, Inc.
116 E. 22nd St., Mpls. 55404, 871-1700

Horty, Elving & Assoc., Inc.
505 E. Grant St., Mpls. 55404, 335-9364

Hustad-Pontinen Architects, Inc.
7400 Metro Blvd., Edina 55435, 835-1717

Interdesign, Inc.
1409 Willow St., Mpls. 55403, 871-7979

Jafvert, Mueller & Bragonier, Inc.
6700 France Ave. So., Edina 55435, 926-7677

James E. Jasper
48 W. Main, Waconia 55387, 448-5735

Phillip MacMillan James & Associates
507 Times Annex Bldg., 63 Fourth St. So., Mpls. 55401, 332-6859

Ken Johnson Architects
1417 W. Lake St., Mpls. 55408, 823-8033

Johnson, Sheldon, Sorensen Arch. Inc.
5407 Excelsior Blvd., Suite B, Mpls. 55416, 920-6956

Kegel Associates, Architects
1050 Lake Ave., Detroit Lakes 56501, 218-947-9876

James Kellett/Architects, Inc.
2345 Rice St., Roseville 55113, 484-2901

Keiser Architects
752 Springen Ave. N., Fergus Falls 55537, 218-739-2396

---

landscape structures
SPECIALIZING IN THE DESIGN AND PRE FABRICATION OF QUALITY WOOD PRODUCTS

PARK STRUCTURES . . play components, benches, vita course

STREET FURNISHINGS . . modular components for clustering

LIGHT STANDARDS . . laminated standards and accessories

---

The Hodne Stageberg Partners, Inc.
116 E. 22nd St., Mpls. 55404, 871-1700

Horty, Elving & Assoc., Inc.
505 E. Grant St., Mpls. 55404, 335-9364

Hustad-Pontinen Architects, Inc.
7400 Metro Blvd., Edina 55435, 835-1717

Interdesign, Inc.
1409 Willow St., Mpls. 55403, 871-7979

Jafvert, Mueller & Bragonier, Inc.
6700 France Ave. So., Edina 55435, 926-7677

James E. Jasper
48 W. Main, Waconia 55387, 448-5735

Phillip MacMillan James & Associates
507 Times Annex Bldg., 63 Fourth St. So., Mpls. 55401, 332-6859

Ken Johnson Architects
1417 W. Lake St., Mpls. 55408, 823-8033

Johnson, Sheldon, Sorensen Arch. Inc.
5407 Excelsior Blvd., Suite B, Mpls. 55416, 920-6956

Kegel Associates, Architects
1050 Lake Ave., Detroit Lakes 56501, 218-947-9876

James Kellett/Architects, Inc.
2345 Rice St., Roseville 55113, 484-2901

Keiser Architects
752 Springen Ave. N., Fergus Falls 55537, 218-739-2396

Architecture Minnesota/January-February 1978
Paul Pink Architect
430 Oak Grove, Suite 306, Mpls. 55403, 871-5615

Plagens, McGee & Pope, Inc.
533 St. Clair Ave., St. Paul 55104, 226-8894

Planmark-Engineering-Architecture
P.O. Box 1243, Mpls. 55440, 932-4685

Pohlmann/Design
320 Prospect Ave., Mpls. 55419, 825-5672

Peter Racchini
716 3rd St., Getty Bldg., White Bear Lake 55110, 429-5376

Radoff Assoc.
206 Wesley Temple Blvd., Mpls. 55403, 870-7873

Rafferty, Rafferty, Mikutowski & Assoc., Inc.
442 Hamm Bldg., St. Paul 55102, 224-4831

Ramo Logan
10505 Wayzata Blvd., Hopkins 55343, 546-4511, 633-2640

Ralph Rapson & Associates, Inc.
1503 Washington Ave. So., Mpls. 55454, 224-7831

Rauenhorst Corp.
7900 Xerxes Ave. So., Mpls. 55431, 830-4464

Reese/Rova Associates
530 W. 78th St., Mpls. 55435, 835-5411

Richard L. Rice, Architect
500 So. Front St., Mankato 56001, 507-215-3632

Rieke Carroll Muller Assoc.
1011 1st St. So., Hopkins 55343, 935-6901

Roberts Architects
Lake Village Center, Chaska 55318, 448-5450

City of Rochester
1421 Third Ave. SE, Rochester 55901, 507-288-2651

Rockey & Cheever
300 Martin Bldg., Mankato 56001, 507-345-3677

J.L. Roettger Architect
15809 White Pine Dr., Chaska 55318, 448-2376

John P. Rova Architect
416 Hamm Bldg., St. Paul 55102, 224-2311

David Todd Runyan & Assoc.
2412 Valentine Ave., St. Paul 55118

Saari and Forrai Photography
3085 Old Hwy 8, #11, St. Paul 55113, 636-8292

St. Paul Housing & Redevelopment Authority
56 East 5th St., St. Paul 55101, 298-4686

St. Paul Public Schools
740 York Ave., St. Paul 55106, 774-9631

City of St. Paul
719 City Hall, St. Paul 55102, 298-4646

235 Marshall Ave., St. Paul 55101, 227-9121

Robert Y. Sandberg & Assoc., Inc.
505 E. 26th St., Hibbing 55746, 218-263-7853

School of Architecture
University of Minnesota, 100 Architecture Bldg., Mpls. 55455

Schooer Assoc.

Richard Schwarz/Neil Weber, Inc.
6950 France Ave. So., Mpls. 55436, 925-3942

Seiberlich, Whipkey & Gjerstad
1339 No. Pascal, St. Paul 55108, 646-1955

Setter, Leach & Lindstrom Inc.
1011 Nicollet Mall, Mpls. 55402, 338-8741

Shank/Kleineman

Shefchik & Assoc.
P.O. Box 3278, Duluth 55803, 218-728-4211

Ralph B. Shimer
4901 W. 77th St., Mpls. 55436, 835-5666

Frederick Sicora Architect
512 Nicollet Mall, Mpls. 55402, 333-6773

John Skujins Architects
1662 Berkeley, St. Paul 55105, 690-4393

Southside Lumber Co.
Rogers, 55374, 612-428-4112

Smith Architects, Inc.
203 Johnson Bldg., 8000 Humboldt Ave. So., Mpls. 55431, 884-7597

Smiley Glotter Assoc.
1021 LaSalle Ave., Mpls. 55403, 332-1401

Smith Architects, Inc.
525 Junction St., Winona 55987, 507-452-4196

Smith, Mathre, Sathrum, Quanbeck
Box 390, Northfield 55057, 507-645-4461, 336-8679

Southside Lumber Co.
Rogers, 55374, 612-428-4112

Sovik, Mathre, Sathrum, Quanbeck
Box 390, Northfield 55057, 507-645-4461, 336-8679

Thomas Stahl, Architect
200 W. Old Shakopee Rd., Bloomington 55420, 861-5610

State of Minnesota
State Architectural/Engineering Office, State Administration Bldg., St. Paul 55155, 296-6674

D.E. Stanius and Assoc.
168 W. Austin St., Duluth 55803, 218-724-1131

Stegner, Hendrickson, McNutt & Sullivan
McNutt & Sullivan, Rt. 11, Box 1, Brainerd 56401, 218-829-8766

Stegner, Hendrickson, McNutt & Sullivan
104 W. Redwood St., Marshall 56258, 507-532-5703

Stegner, Hendrickson, McNutt & Sullivan
6600 France Ave. So., Edina 55435, 926-5607

Maurice Stenerson
205 E. Walnut St., Stillwater 55082, 1-439-5329

Target Stores, Inc.
777 Nicollet Mall, Mpls. 55402, 370-6157

Team 70 Architects
4716 IDS Tower, Mpls. 55402, 332-5515

John Ivey Thomas/Thomas Vecchi, Inc.
1518 E. Superior St., Duluth 55812, 218-724-8802

Thorsen & Thorshov
1000 Title Insurance Bldg., Mpls. 55401, 339-7671

Toltz, King, Duvall, Anderson & Assoc., Inc.
1408 Pioneer Bldg., St. Paul 55101, 224-7891

Traynor, Hermanson & Hahn
Box 156, 311 Medical Arts Bldg., St. Cloud 56301, 1-251-8670

Trosen-Wright
161 E. Marine, St. Paul 55118, 455-2980

Tyson & Kerr Architects
711 W. Lake St., Mpls. 55408, 825-4213

University of Minnesota Physical Planning Office
503 Morrill Hall, Mpls. 55455, 373-5765

University of Minnesota Planning
340 Morrill Hall, Mpls. 55455, 373-2250

UrbanScape, Inc.
2614 Nicollet Ave., Mpls. 55408, 827-5893

U.S. Postal Service, Design & Const.
Box 69069, St. Paul 55169, 725-7302

Wm. A. Vievering, Architect
1939 Munster Ave., St. Paul 55116, 690-1294

Edward J. Vogt, Architect
Suite 141, Freeeway Office Park, 9100 W. Bloomington Freeway, Mpls. 55431, 888-4459

Voigt & Fourre, Inc.
2109 Grand Ave., St. Paul 55105, 690-2451

Kenneth H. Walijarvi & Assoc., Architects
1600 Pioneer Bldg., St. Paul 55101, 224-3355

Wallace and Mundt, Architects
5350 W. 78th St., Mpls. 55435, 831-3509

Weichselbaum & Associates, Architects, Inc.
1903 S. Broadway, Rochester 55901, 507-288-2687

John Weidt & Assoc.
43 Olm Court, Chaska 55318, 448-3863

Wemlinger, Remely & Associates, Inc.
Architects & Engineers
Box 519-501 W. St. Germain, St. Cloud 56301, 1-253-2100

Architecture Minnesota/January-February 1978 91
Premier does it right electrically.

Electrical transmission and wiring systems, large and small, substations, transformers, metering, in-plant distribution control.

Any electrical need, installation or contract maintenance.

WHERE IS THE HEAT SOURCE IN THIS PICTURE?

CLUES: Look high on the wall, close to the ceiling. Look behind the exit light, above the door. Look above the displays.

This application has been performing for several years. Since it's 80% radiant, the operating cost is kept at a minimum. The name of the product is ELEKTRA-COVE, and it is the #1 ENERGY-SAVING and space-saving electric heating system available today.

All surfaces absorb some of the radiant energy and retain the heat during the off-cycle. Occupants can be comfortable at 60°F — without sweaters.

ELEKTRA-COVE has an established market. Comes in a choice of colors: Off-white, Walnut (dark brown) and Sandalwood (light brown).

Vitreous porcelain on an extrusion of aluminum alloys delivers the perfect wavelength of radiant energy, travelling at the speed of light.

FOR MORE INFORMATION CALL OR WRITE

Paul Jasmin
Northern Central Sales Inc.
6420 Indian Hills Rd.
Minneapolis, Minn. 55435
612-941-4613

ELEKTRA-COVE units are ventilated through slots in the backshield and this accounts for the other 20% of the output. Not a single BTU is wasted.

Directory of Governmental Organizations

FEDERAL OFFICES

Senators

Wendell R. Anderson
443 Old Senate Office Bldg., Washington, DC 20510, 202-224-5641; Bremer Arcade, 490 N. Robert St., St. Paul, MN 55101, 725-2632

Hubert H. Humphrey
232 Old Senate Office Bldg., Washington, DC 20510, 202-224-3244; Room 462, Federal Bldg., 110 S. 4th St., Mpls., MN 55401, 725-2632

Representatives

Albert Quie
First District, 2182 Rayburn Office Bldg., Washington, DC 20515, 202-225-2271; Room 520, Federal Bldg., Fort Snelling, MN 55111, 725-3680
Thomas Hagedorn
Second District, 325 Cannon Office Bldg.,
Washington, DC 20515, 202-225-2472;
P.O. Box 3148, Mankato, MN 56001, 507-388-4563

William E. Frenzel
Third District, 1026 Longworth Office Bldg.,
Washington, DC 20515, 202-225-2871; Room 120, Federal Bldg., 110 S. 4th St., Mpls., MN 55401, 725-2173

Bruce F. Vento
Fourth District, 1330 Longworth Office Bldg.,
Washington, DC 20515, 202-225-6631; Room 544, Federal Courts Bldg., St. Paul, MN 55101, 725-7869

Donald M. Eraser
Fifth District, 1111 Longworth Office Bldg.,
Washington, DC 20515, 202-225-4755; Room 180, Federal Bldg., 110 S. 4th St., Mpls., MN 55401, 725-2081

Richard Nolan
Sixth District, 1107 Longworth Office Bldg.,
Washington, DC 20515, 202-225-2331; P.O. Box 1086, St. Cloud, MN 56301, 612-252-7580

Arland Stangeland
Seventh District, 1414 Longworth Office Bldg.,
Washington, DC 20515, 202-225-2165

James Oberstar
Eighth District, 323 Cannon Office Bldg.,
Washington, DC 20515, 202-225-6211; Room 231, Federal Bldg., Duluth, MN 55802, 218-727-7474

Robert Berdahl
Chief Architect, 725-4783

Lowell Ogdahl
Const. Analyst, 725-4783

Norman Lucas
Const. Analyst, 725-4783

Ward Boutin
Const. Analyst, 725-4783

Robert Cass
Const. Analyst, 725-4783

Olaf Hansen
Const. Analyst, 725-4783

Leon Heutmaker
Const. Analyst, 725-4783

John Tufts
Const. Analyst, 725-4783

Jack Gilbertson
Single Family Service Officer, 725-4791

Lee Arvid
Director, Multi-Family Branch, 725-4761

Gerald Spandl
Chief, Multi-Family Branch, 725-4765

Robert Hoeppner
Architect, 725-4765

Richard Sexton
Architect, 725-4765

Kent H. Riedesel
Const. Analyst (Supvy.), 725-4766

Arthur Paarmann
Const. Analyst, 725-4765

Raymond Meyer
Const. Analyst, 725-4765

Harry Springer
Chief Const. Inspector, 725-4771

Douglas Frank
Const. Inspector, Duluth, 218-725-4771

Arthur Hultgren
Rehabilitation Advisor, 725-4771

Veronica Daugherty
Wage Requirements Assistant, 725-4769

Bill Middleton, Bob Herbert, Dan Waloga
Environmental Analysts, 725-4724

Robert Herbert
Environmental Specialist, 725-4721

Nancy Freeman
Relocation Specialist, 725-4721

Curtis Ewing
Director, 725-4821

Barry J. White
U.S. Dept. of Labor, Region 5 Officer, 230 S. Dearborn; 32nd Fl., Chicago, Ill. 60604, 312-353-4716

Vern Fern
Mpls. Office of U.S. Dept. of Labor, 725-2571

STATE OFFICES

Rudy Perpich
Governor, 130 State Capitol, St. Paul 55155, 296-3391

Alec Olson
Lieutenant Governor, 105 State Capitol, St. Paul 55155, 296-2374

Warren Spannaus
Attorney General, 102 State Capitol, St. Paul 55155, 296-2591

Joan Grove
Secretary of State, 180 State Office Bldg., St. Paul 55155, 296-3266

Richard L. Brubacher
Administration Commissioner, 208 State Administration Bldg., St. Paul 55155, 296-3862

Lee Vann
Economic Development Commissioner, 61 E. 8th St., St. Paul 55101, 296-2755

Peter Vanderpoel
Director, State Planning Agency, 802 Capitol Sq. Bldg., St. Paul 55101, 296-6662

Wes Warner
Public Safety Fire Marshall, St. Paul Office, 1246 University Ave., St. Paul 55104, 296-3584

Housing and Urban Development,
Mpls./St. Paul Office, 6400 France Ave., S., Mpls. 55435

Thomas T. Feeney
Area Director, 725-4701

Madeline Hastings
Deputy Area Director, 725-4701

Shawn Huckleby
Chief of Program Planning & Support Branch, 725-4731

James Haner
Special Assistant to Area Director, 725-4701

Joseph Gabler
Director, Housing Production & Mortgage Credit, 725-4736

Roger Olson
Director, Community Planning & Development Division, 725-4736

Shirley Sailors
Program Manager, Program Management Staff, 725-4731

Lyn Burton
Program Manager, 725-4726

Greg Theissen-Margaret Russell
Multi-Family Housing Rep., 725-4788

John Buenger-Greg Theissen
Multi-Family Housing Rep., 725-4726

Bill Grasavage
S. Minn. Community Dev. Rep., 725-4726

Elizabeth Jones
Director, Fair Housing & Equal Opportunity, 725-4701

THE CHAS. M. FREIDHEIM COMPANY
3601 PARK CENTER BLVD.
ST. LOUIS PARK, MINN. 55416
(612) 927-4611

WAFFLE BLOCK

Architecture Minnesota/January-February 1978 9 3
Marcia Bennett (1979)
District No. 13, 644 NE 48th Ave., Columbia Heights 55421, (612) 1193

Opal M. Peterson (1981)
District No. 14, 14646 North Upper 55th St., Oak Park Heights 55082, (612) 439-2696

Gary Pagel (1979)
District No. 15, 15, Assoc. Mgmt., Inc., 851 Sibley Memorial Hwy. St. Paul 55118, 222-2754

James Daly (1981)
District No. 16, 1611 W. Main, Bel Plaine 56011, (612) 334-2713

Staff
- Carla Lechthaler, Director of Personnel, 291-6337
- Robert Nethercutt, Program Manager, Recreation and Open Spaces, 291-6436
- Edward Maranda, Special Assistant for Program Policies, 291-6436
- Ronald Boezi, Director, Human Resource Planning, 291-6302
- Moe Dorton, Director, Environmental Planning, 291-6499
- William Malvati, Program Manager, Criminal Justice, 300 Metro Sq. Bldg., St. Paul 55101, 291-6387

Metropolitan Health Board
- Malcolm Mitchell, Executive Director, 300 Metro Sq. Bldg., St. Paul 55101, 291-6351

Regional Justice Information System (REJIS)
- Reis Voye, 300 Metro Sq. Bldg., St. Paul 55101, 291-6441

Metropolitan Transit Commission
Nine members, all appointed to four-year staggered terms. Governor appoints chairman. Others appointed in various ways by municipal and county officials in seven-county area
- Doug Kelm (1979) 2107 Eglehart Ave., St. Paul 55104, 227-7343
- Edward Hjermstad (1979) 7617 Frontier Trail, Chanhassen 55317, 474-8338
- Leonard Levine (1979) 718 City Hall, St. Paul, 298-4473
- Leonard Thiel (1979) 2910 Flag S., St. Louis Park 55426, 339-6108

Minneapolis Offices

General Information 348-3000
Mayor Al Hofstede 127 City Hall, Mpls. 55415, 348-2100

City Council
Meets 2nd and last Fridays, 9:30 a.m., 317 City Hall

Alderman
- Ward 1: Walt Dziedzic
- Ward 2: Judy M. Corrao
- Ward 3: Patrick Daugherty
- Ward 4: Alice Rainville
- Ward 5: Louis G. DeMars
- Ward 6: Jackie Slater
- Ward 7: Parker Trostel
- Ward 8: Mark Kaplan
- Ward 9: Zollie Green
- Ward 10: Sally E. Howard
- Ward 11: Walter Rockenstein
- Ward 12: Dennis Schulstad
- Ward 13: Charlee Hoyt
- Ward 14: Gordon Moe
- Ward 15: 328 City Hall, 55415, 348-2391

Attorney
Walter Duffy, Jr., 326M City Hall, 55415, 348-2022

MASONRY SURFACE RESTORATION
Safe Chemical Cleaning & Paint Removal

SERMAC of the Twin Cities Inc.
1920 Oakcrest
St. Paul, Minnesota 5513
612/631-2708
Capital Long-Range Improvements Committee
Charles R. Hanna
Executive Secretary, 240 City Hall 55415, 348-2491

Committee on Urban Environment
Edward Howe
Administrator Assistant, 301 M City Hall, 55415, 348-2104

Coordinator
Thomas A. Thompson
301 M City Hall, 55415, 348-2670

Board of Estimate and Taxation
Thomas P. Vasaly
Secretary, 303 City Hall, 55415

Environmental Control
Robert Dronen
Director, 301 M City Hall, 55415, 348-2664

Fire
Clarence Nimmerfroh
Chief, 200 Grain Exchange Bldg., 55415, 348-2545

Health
Dr. Ellen Alkon
Commissioner of Health, 250 S. 4th St., 55415

Housing & Redevelopment Authority
Richard Brustad
Executive Director, 217 S. 3rd St., 55401

Industrial Development Commission
Donald P. Risk
Executive Secretary, 306 M City Hall, 55415, 348-3950

Inspections
Sol Jacobs
Deputy Director, 220 Grain Exchange Bldg., 55415

Planning and Development
Robert Moffitt
Director, 301 M City Hall, 55415, 348-2511

Public Works
Clayton Sorenson
Engineer, 203 City Hall, 55415, 348-2443

St. Paul Offices
General Information
298-4012

Mayor George Latimer
347 City Hall, 55102, 298-4323

City Council
Meets daily, Tuesday through Friday, 10:00 a.m., 350 City Hall

Mrs. Ruby Hunt
Room 722 City Hall, 55102, 298-5378; 1148 Edgecumbe Rd., 55105

Leonard Levine
Room 718 City Hall, 55102, 298-4473; 1987 Worchester Ave., 55116

Patrick Roeder
Room 713, City Hall, 55102, 298-5289

Victor Tedesco
Room 701 City Hall, 55102, 298-5506; 2160 Larry Ho Dr., 55119

Rosalie Butler
Room 716 City Hall, 55102, 298-5679

Dave Hoza
Room 704, City Hall, 55102, 298-4646

Robert Sylvester, Council President
Room 719 City Hall, 55102, 298-4475

City Administrator
Peter Hames
Director Management, 615 City Hall, 55102

Attorney
Harriet Lansing
647 City Hall, 55102

Building Official
Glenn Erickson
City Architect, 445 City Hall, 55102

Civic Center Authority
John F. Friedmann
Management Director, 143 W. 4th St., 55102

Clerk
Rose Mix
386 City Hall, 55102

Engineer
Richard Wheeler
Assistant Director & City Engineer, 234 City Hall, 55102

Finance and Management Services
Bennard Carlson
Director, 100 City Hall, 55102

Fire
Stephen F. Conroy
Chief, 101 E. 10th St., 55101

Health
Ed Eberhardt
Chief Health Officer, 555 Cedar St., 55101

Housing and Redevelopment Authority
Edward N. Helfeld
Executive Director, 55 E. 5th St., 55101

Parks & Recreation
Gerald W. Prill
Superintendent, 557 City Hall, 55102

Planning and Zoning
James Bellus
Coordinator, Grace Bldg., St. Paul, 298-4151

Port Authority
Robert Sprafka
Executive Vice President, 330 Minnesota Bldg., 55101

Duluth Offices
City Hall, City Clerks Office
218-723-3340, ext. 34

Robert Beaudin, Mayor
Clarence Maddy, Administrator Assistant

Port Authority
Robert Sprafka
Executive Vice President, 330 Minnesota Bldg., 55101

St. Cloud Offices
General Information
City Hall 251-5541

Alcuin Loehr
Mayor
Elmer Malinen
City Administrator

Sy Knapp
Engineering

Jack Warner
Inspection

Chris Hageman
Planning

Rochester Offices
General Information
City Hall, City Clerk, 507-282-9495

Alex Smekta
Mayor, 507-288-3624

Robert Freson
City Administrator, 507-288-2501

Steven Kvenvold
Assistant Administrator

Nadine Levin
Administrative Assistant

Building and Safety Department
Sid Chuae
Senior Building Inspector

Roger E. Plumb
Director of Public Services

St. Cloud Offices

General Information
City Hall 251-5541

Alcuin Loehr
Mayor
Elmer Malinen
City Administrator

Sy Knapp
Engineering

Jack Warner
Inspection

Chris Hageman
Planning
School athletic facility designers are faced with ever changing construction problems to satisfy today's educational needs. The new swimming pool building at the Elk River North Junior High School was a typical example.

The roof was a critical factor since it required a very wide, column-free expanse over the pool and surrounding spectator areas. Budget, energy savings, speed of construction, durability and maintenance-free finish were additional considerations.

Prestressed Concrete, Inc. met these requirements and more with its giant "Single T" Roof Beams. A total of 15 of these members measuring 8 feet wide by 94 feet 9½ inches long by 42 inches deep formed the entire roof.

Assembly at the job site took just two days. The "Giant T's" are structurally very durable and possess the high degree of corrosion-resistance required over swimming pools. They are attractive, clean appearing and maintenance-free.

Most important to today's financially-pressed school districts were Prestressed Concrete's efficient production techniques. Units were economically precast in Prestressed Concrete Inc.'s plant, independent of high-priced, on-site construction cost factors. Once units were produced, shipment to the job site and erection were fast and economical.

Photos courtesy of Sherburne County Star News, Elk River, Minnesota

---

Taking Thought with Prestressed Concrete

PROJECT: North Junior High School Swimming Pool, Elk River, Minnesota
STRUCTURAL ENGINEER: Johnston-Sahlman Co., Inc., Mpls., Minnesota

The Thoughtful Designer will specify...
CERAMIC TILE . . .
beauty that soars high above the ordinary . . .

Beauty isn’t just a flight of fancy, or a fragile ephemera; beauty becomes very real and tangible when Ceramic Tile is used on nearly any surface. Ceramic Tile is available in a tremendous variety of textures and colors and provides a handsome counterpoint to wood, metal, stone or glass.

with down-to-earth costs and practicality . . .

Ceramic Tile makes beauty liveable and affordable. Durable Ceramic Tile can withstand years of the most demanding conditions with minimum maintenance costs. No fading, no colorshift, no warping, no buckling. Simple to clean and keep clean. See what we mean by “down-to-earth”?