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the prestressed precast concrete plank with a uniform surface

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AIA FILE NO. 4-K

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Schools of Thought

There are many schools of thought regarding school architecture, and shown here are two handsome and different examples. When it came to choosing plumbing fixtures and fittings for these schools, the school of thought that places importance on quality prevailed—Kohler was installed.

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The invitation to send in YOUR views on the efficacy and reality of Article 2 of the Mandatory Standards of the AIA in the August issue of the Wisconsin Architect was accepted by one member of the AIA, J. Roy Carroll, Jr., FAIA, First Vice President of The American Institute of Architects in Washington, D.C. Again, YOU are invited here and now to send in YOUR views on the efficacy and reality of this Article, or your rejoinders to the views of your colleagues expressed here.
Great sculptural forms in architecture have dated back to the pyramids and early domes. These structures were little like the thin shells of today or the glass and concrete conoid forms which are so delightful to the eye.

The Mitchell Park Horticultural Conservatory designed and planned for the Milwaukee County Park Commission in 1958-59 by Architect Donald L. Grieb, AIA, (who heads the firm of Donald L. Grieb Associates, Architects) is now growing to a form where its shining glass and aluminum skins are covering the three precast concrete conoidal shaped frames visible as one traverses Highway 41's bridge to the city or seen as one travels along the new expressway near the Menomonee Valley and Twenty-seventh Street.

Construction development of the project seems to grow slowly as most trees and plants in the north temperate climate of Milwaukee. The cold, rain and snow have something to do with construction speed; but, in the case of this unique project, its development has been timed by the Milwaukee County Park Commission so that the building will reach completion in another year, possibly the fall of 1963. This is due to the fact that the County budget would have to be held to a basic minimum amount of money per year for their program.

A master plan and working drawings of the three domes was approved in 1959. However, because of the County
ONSERVATORY

W. R. Prokopowicz, Architect

In order to begin construction of the conservatory, it became necessary for the Architect to construct two concrete frames as a first phase of work; then the boiler room, garage and service areas, along with the mechanical work for the "Show House Dome" were contracted for and constructed. A third dome frame was also built. Another stage of construction was let to cover the three domes with their glass and aluminum covers or skins and painting the three concrete frames. The next stage will see a lobby constructed with completion of heating and ventilating, electrical and plumbing work for domes which will house plant life for rain-forest climate and arid climate plants and trees respectively.

Constant daily supervision of this job has been a complex task for the architect and his staff who have been weaving the threads of various general contractors' and mechanical contractors' work as each stage of construction necessitates. At present Architect W. R. Prokopowicz, who has attended the supervision and inspection with Donald Grieb, has contractors for four stages of construction all working on the project and work must be interrelated.

The recent skin covers and dome caps being erected in the fourth stage of development by the Super Sky Company of Thiensville have provided the job with many interesting facts concerning the work and materials installed. For instance, to cover the concrete frames, 115,000 square feet of Misco wire glass is being used. The tubular rafters which hold the glass and act as drainage tubes for condensation water, if laid end to end, would stretch 2.37 miles. There are 15,280 of these rafters on the three domes. 5,280 joint covers and caps and 240,000 feet of neoprene gaskets are used. The total weight of materials, glass, aluminum and gaskets is 675,000 pounds or 337½ tons. 165,000 screws are used to hold the glass. Time of construction for covering the three domes is estimated at seven months.

Each dome is 140 feet at its base, is 74 feet high at its center axis (measured from lobby floor level), and is structurally constructed of precast curvilinear hexagons (approximately 18 feet), triangles and diamond shaped members which when erected will follow a pattern appearing like a mammoth grillage. The hexagons, diamonds and triangular shaped members are composed of reinforced concrete members approximately 6 inches by 8 inches in cross section and other members 4 inches by 8 inches in cross section. The basic problem to be found in each of the structures is one of percentage of open area to that of solid structure. In a planetarium or conservatory of this type, to suit the needs of our latitude and climate, it is necessary to provide a ratio of eighty percent open area to twenty percent structural area. This is accomplished in the design pattern detailed in our plans.

The concrete precast structural members follow surfaces on the elliptical shaped dome until they reach an opening ring near the top of each dome — a ring of concrete providing an opening 37 feet in diameter. This opening existing at the top of each dome is covered with aluminum, double glazing and metal. The rest of the dome is covered with a single glazing held in place by aluminum tubing. Triangles of glass approximately 4' x 4' x 4'-1/2' on a side will cover an area of approximately 26,000 square feet of surface. The aluminum tubing which holds the glass will act as a condensate drainage system to carry off excessive condensate. A reinforced concrete ring of triangular shapes of concrete forms the base of each dome. A circular pipe tunnel trench serves as a connecting utility mainline for each dome. The overall aesthetic design effect for each dome will produce an interior dome structural grillage as closely likened to that of the petals of a flower and due to its shape and size, one will be given a ceiling wall effect of a dioramic expression. The lobby and public facilities, including offices, toilet rooms and vestibule, will be constructed of precast reinforced vault-like members 22 feet high by ten feet at the base. The vaults will be 4 inches thick and will appear as tapered arch-like forms, hairpin-like in shape. There will be two intersecting vaults at the vestibule. The concrete of the arches will be surfaced with Mosai.
ARE THE AIA ETHICS REALISTIC?

In response to the article "Are the AIA Ethics realistic?", we received the following letter from J. Roy Carroll, Jr., FAIA, First Vice President of the American Institute of Architects in Washington:

August 23, 1962

Dear Mr. Editor:

For a number of years I have enjoyed receiving copies of the Wisconsin Architect, and for a number of reasons was particularly interested to read the August, 1962 issue.

I should like to comment briefly on the two articles on Page 12, one by Mark Pfaller and the other by Maynard W. Meyer.

The imaginary Architect described by Mr. Pfaller can only be disciplined by his professional society if its members bring charges against him, and are willing to support them before the Regional Judiciary Committee.

Mr. Meyer in his article says that "the matter (unprofessional conduct) has been called to the attention of the A.I.A. Board, but absolutely nothing has been done about it." If Mr. Meyer is talking about recent history, and I mean the last five years, his statement cannot be supported by fact. To my certain knowledge, the A.I.A. Board has supported every recommendation of the National Judiciary Committee which has been brought before it for final action.

With regard to a particular section of our code, namely, "An Architect shall not render professional services without compensation", interpretations have been made for a number of years pointing out that the violation here is proposing or rendering free preliminary service in order to obtain an advantage over some other Architect. Should, for example, the church to which some Architect belongs inform him that they have selected him to be their Architect, if he chooses to charge them no fee at all, he is certainly not in violation of our Code of Ethics.

If, however, several Architects are being considered for the same job, and one indicates that he will make "free sketches", that man is in violation of the Code and should be disciplined.

The fault lies not in our Code of Ethics, but our own individual unwillingness to bring charges against a fellow Architect when such charges obviously could be supported. Nor does the fault lie with either our Regional or National Judiciary Committee. Their record in recent years is perfectly clear. Nor can it be truthfully said, if one is familiar with recent AIA history, that the Code of Ethics applies only to the little fellow.

We are indeed a profession, and I trust we shall remain so!

Sincerely yours,

J. Roy Carroll, Jr.

* * * * *

Mark A. Pfaller, AIA, states by phone in response:

"This is not an imaginary architect, this person is real."

* * * * *

Maynard W. Meyer, AIA, submits this rejoinder:

I was happy to see that people of national reputation, such as J. Roy Carroll, Jr. take the time, not only to read our WISCONSIN ARCHITECT but that Mr. Carroll should also take the time to reply. Referring only to my comments on your original question I must admit that I was not clear enough in my reference to the AIA Board. I was referring to the local Board and not to the National Board. If these things are overlooked at the local level obviously they never reach the National Judiciary Committee.

Sincerely yours,

Maynard W. Meyer

ALLEN J. STRANG REPORTS:

This is the third in a series of committee reports by Wisconsin men who are members of national AIA committees.

Allen J. Strang, Corresponding Member of the National AIA Committee on Housing for the Aging, states that the duties of this committee are "to provide professional leadership in a study of the principles of planning housing facilities for the aging, the total remedial environment, to establish productive liaison at the National and Regional levels and to cooperate with government and private agencies in matters of mutual interest and to disseminate its contributions to professional knowledge at publication and by conference."

In a meeting of the Committee, held in St. Louis, Missouri on March 30 and 31, 1962, the following projects were discussed:

1. A site selection paper to be published in the AIA Journal, prepared by Mr. Kassabaum, Chairman.

2. A check list of public agencies dealing with housing for the aging.

3. Collaboration with the Plumbing Fixture Manufacturers' Association to investigate the re-design of plumbing fixtures as this might be applicable to housing for the aging.

4. A project to establish standards of design for housing for the aging.

5. The possibility of sponsoring an international symposium on the subject. Mr. Joseph D. Weiss of New York, Committee Member, was assigned the task of discussing the desirability of such a symposium with European Architects during the summer.

6. A check list for functional requirements for facilities for the elderly.

7. A paper on site development for elderly housing.

The next meeting of the Committee is scheduled to be at the Octagon in Washington on October 5 and 6, 1962.
CHAPTER NOTES

A North Central States Regional Officers Council was held at the Radisson Hotel, Minneapolis, Minnesota on September 12, 1962.

The following were present at the meeting: William Scheick, Executive Director of the AIA; Julius Sandstedt, Regional Director; E. A. Jyring, President of the Minnesota Society of Architects; Arthur C. Lucas, Jr., President, Duluth Chapter; Frederick J. Bentz, Secretary, Minneapolis Chapter; James Fenelon, Executive Director, Minnesota Society of Architects; Walter E. Bohrer, Secretary, North Dakota Chapter; Jack G. Askew, Director, North Dakota Chapter; Edward Staszko, President, North Dakota Chapter; Frank C. Aukerman, Jr., President, South Dakota Chapter; Thurman Potts, Secretary, South Dakota Chapter; A. A. Tannenbaum, President, Southeast Division of the Wisconsin Chapter; Mark A. Pfaller, Secretary, Wisconsin Chapter; Francis J. Rose, President, Wisconsin Chapter; John Jacoby, Regional Chapter Affairs Committee member and Mrs. Jane Richards, Executive Secretary, Wisconsin Chapter.

Regional Director Sandstedt called the meeting to order at 1:30 p.m. CST. Mr. William Scheick was introduced to the officers present.

Representatives of the various areas were asked for reports on the present and prospective work status.

Messrs. Sandstedt and Scheick reported the results of the AIA supplementary dues program for 1962. This assessment, on a voluntary and honor system basis, has been very effective. The major portion, approximately 90% of the anticipated supplementary income has been collected to date.

Suggestions for appointments to regional and national committees were requested by Mr. Sandstedt.

A case of alleged unethical conduct was discussed. This case involves the states of Wisconsin and Minnesota and the offending individual is a resident of a third state. Final decision at the meeting was to have The Minnesota Society of Architects and the Wisconsin Chapter, AIA file a joint formal complaint against the AIA member.

Internal Revenue Service investigation of the AIA Chapters was discussed. The intensification of I.R.S. scrutiny of non-profit organizations is creating problems for the chapters. John Jacoby reported on the national Chapter Affairs Committee progress.

This committee has not met since January, however, its mid-year report was quite informative.

The tentative arrangements for the 1963 AIA convention at Miami, Florida were announced. The program will be arranged differently this next year. All business sessions will be completed earlier in the week. The length of the convention will be cut by one day.

Most of the component of the North Central States Region have made the by-law changes necessary to have officers installed on January 1 of each year.

The meeting was adjourned at 4:00 p.m. C.S.T.

The annual joint dinner of AIA-CSI members, Southeast Division and Milwaukee Chapter respectively, was held on Monday, August 27th at the Coach House Motor Inn in Milwaukee. President A. A. Tannenbaum, AIA, opened the meeting requesting a brief silentium in honor of Walter A. Domann, AIA, who died on Saturday, August 25th.

Wallace R. Lee, Jr., AIA, President of the Milwaukee Chapter CSI introduced the speaker of the evening, Dr. John B. Scalzi, structural engineer of U. S. Steel's Market Development Division, who was accompanied by his charming wife and two daughters. Under the topic "The Spectrum of Steels" Dr. Scalzi eloquently familiarized his attentive audience with numerous advances in the properties of tectonic steels as well as new techniques for their application. Interested parties can avail themselves of the specifics of Dr. Scalzi's report by writing to: United States Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pennsylvania, requesting a reprint of the speaker's article published under the same title in Progressive Architecture, September 1961 issue.

A short question period followed Dr. Scalzi's speech. Mr. Fred Schweitzer reminded AIA members in attendance that memorial gifts for Mr. Domann, to the Wisconsin Architects Foundation were welcomed and encouraged by the family. The meeting was adjourned at 10:30 p.m.

CREATIVE ENGINEERING, exhibit of work by renowned Italian architect PIER LUIGI NERVI Wed., Oct. 3 through Oct. 24. Hours: Mon.-Fri., 8 a.m. - 10 p.m.; Sat. and Sun., 9 a.m. - 5 p.m. Marquette University Memorial Library, 1415 W. Wisconsin Ave. Mr. Nervi is scheduled to give one lecture during October. Date, place and time to be announced. For further information call DI 4-1000, Ext. 551.

Prospective candidates for Professional Engineering and Architectural Examinations and subsequent registration find assistance in their preparations through ENGINEERING REFRESHER COURSES offered by the University of Wisconsin to be held at Madison, beginning October 11, 1962 and Milwaukee, beginning February 22, 1963. Due to the interest in this Series, early enrollment is suggested. For information write to: Series Coordinator, Professor C. F. Hurc, P. E., Engineering Refresher Institutes, University of Wisconsin, Madison 6.

An annual scholarship awards program for architectural students has been announced by the Portland Cement Association.

Six scholarships to the summer session at the Fontainebleau School of Fine Arts in Paris, France, will be awarded on a regional basis. They will go to students starting their fourth or next-to-last year this fall at any one of 52 accredited schools of architecture in the U.S.

According to the rules, students must submit designs that were already completed as part of their regular class assignments. All entries must utilize concrete as the principal building material. They must also meet residential area needs. The term "residential area" in this case refers to single-family homes, garden apartments, row housing or small offices and commercial buildings.

Students will submit entries to their faculty who then will select the design they judge to be most outstanding. This drawing will then be forwarded to PCA.

All entries will be reviewed next spring by a panel of distinguished architects and educators chosen by the Association. They will name a winner and runner-up in each of six geographical regions. PCA will assume the costs of transportation, room, board and tuition for all winning students.

Scholarship winners will be announced at ceremonies next April in New York City.

Continued Page 19
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WELCOME ABOARD

CORPORATE MEMBERS:

RODERICK A. NELSON, of Nelson Associates, Architects in Wausau, is a new Corporate member. Prior to formation of his firm, he was with Donald Schoepke, Wausau. Mr. Nelson received his BSCE from the Illinois Institute of Technology in 1949. His hobbies are curling, golf, fishing and hunting. He has traveled in the United States, Mexico and Canada.

ROBERT J. SAJBEL, with Nelson Associates, Architects of Wausau, has advanced from Associate to Corporate membership. He was born in Pueblo, Colorado, June 13, 1924 and presently resides at 1314 Spruce St., Wausau. He earned his B. Arch. at Iowa State in 1951. From 1943 to 1946 he was an Air Force Fighter Pilot. His hobbies are stamps, coins, photography, painting and gardening.

Continued Page 18

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Wisconsin Architect — October 1962
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WORDS FROM WAF

Wisconsin Architects Foundation introduces two of the four new Wisconsin students receiving tuition aid for the fall semester, academic year 1962-63:

Richard H. Kuehl — Sheboygan, Rhode Island School of Design, 4th year student.

His grade average of 3.12 ranks him highest in his class. He is Vice President of the School’s Architectural Society. During high school, he worked part time and summer vacations for E. A. Stubenrauch, Architect, Sheboygan, and during his college years he worked summers for a carpentry contractor to learn construction first hand.

Judson R. Marquardt — Wausau, University of Minnesota, 5th year student.

His grade point average was 3.50 for the past semester and 3.75 for four years.

He has worked for a construction firm in Wausau during vacations, and for the past summer with Foster, Murray & Schavie, Architects, Wausau.

For the four new students and the four students continued, the Foundation has made an outlay of $1600 in tuition aid. The other two new students will be introduced in the next issue. The four students who are being continued have been pictured previously.

For special mention, we are again showing R. Chris Anderson, Neenah, who is completing his final year of architecture at Oklahoma State University, and received financial assistance from the Foundation since he became eligible with his junior year. Those who admired his fine rendering of a Tivoli and his other work displayed at the
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CROSSES OF THE AGES; DESIGN AIDS FOR YOU

Christianity’s Sacred Symbol—the cross—has been pictured in over 140 of its variations in a new booklet published for architects by Overly. Entitled “The Cross,” the new booklet is a product of over five years of research. It separates the cross designs according to their time of origin and includes a historical review of their religious significance and usage.

A separate section catalogs all of the basic cross forms, including crosses from the ancient civilizations, crosses from the early church and the crosses from heraldry. Additional information is offered on how Overly crafts these religious symbols and the important data the architect needs to know when ordering a cross.

These cross designs will be useful to architects in designing church interiors, in selecting the altar cross or in providing external ornamentation for contemporary religious buildings.

“The Cross” is available to all architects on letterhead request. Send for your copy today.

Another U/L Testing Breakthrough has been achieved by Overly in the recent fire test of a pair of Overly doors, 7' x 7' in size, for a U/L “A” label of 3 hours of fire resistance. These larger doors use new Von Duprin Concealed Fire Exit Hardware, giving the architect U/L labeled doors a full foot wider than heretofore available with the aesthetic advantage of concealed hardware. For more information, write to Manager of U/L Labeled Products, Overly Manufacturing Company.

WELCOME ABOARD

Continued from Page 15

ROBERT J. BERG, new Associate member, resides in New Berlin, Wisconsin. Joined the U. S. Forest Service in Milwaukee in December, 1961. He is also a member of the Construction Specification Institute. His hobbies are hunting and fishing. He has served in the U.S. Army and in the U.S. Air Force Reserve. He earned his B.S., Arch. Eng. at North Dakota Agr. College in 1955.

BROTHER RONALD BENZ, S.D.S. (PETER F. BENZ), new Associate member, is presently serving with his religious order in Tanganyika, East Africa. His official address is the Salvatorian Provincial Residence at 1735 Hi Mount Blvd., Milwaukee. His hobbies are music, fishing, hunting, camping and reading.

CARL LIEBERT, joined the Wisconsin Chapter, AIA as an Associate member in 1961, and has advanced to Corporate membership. Mr. Liebert is with McMahon Engineering Company in Neenah. He was born in Milwaukee in 1903. and earned his B.S. in Arch, from University of Michigan College of Architecture in 1929. He is an enthusiastic outboard motor operator and a member of the Power Squadron.

ASSOCIATE MEMBERS:

FREDERICK M. SUTTER, new Associate member, is with Lawrence Monberg and Associates in Kenosha. He earned his B.A. at the University of Illinois in 1960. He is interested in city planning and urban renewal. His hobbies are furniture making, golf and fishing. He lives in Waukegan, Illinois, R.R. 1, Box 402. He was a member of the Student Chapter of the Illinois AIA from 1958 until his graduation in 1960.

VINCENT L. LUNG, new Associate member, earned his M.A. in Urban Planning at the University of Washington in 1955. He is presently with the City of Milwaukee, Department of City Development. He was born in Canton, China in 1917. He is an Associate member of the American Institute of Planners. He has written numerous departmental reports on Planning. He has been with the Milwaukee City Plan Commission since 1955.
JOHN G. MILLER, advanced from Associate to Corporate Membership. Born in Pond du Lac on March 22, 1929, he now resides at 207½ North Green Bay Road, Appleton. He earned his B. Arch in 1953 at the Mass. Institute of Technology. Formerly with Irion and Reinke, Oshkosh, recently began his individual practice in Appleton. Has traveled in Sweden, Denmark, West Germany, Switzerland and Italy.

DRAKE W. ROWE, advanced from Junior Associate to Associate member. Is a recent winner in the Wisconsin Chapter, A.I.A. Draftmen's Competition. Mr. Rowe is with Kenneth I. C. Knudson and Associate, Hartland. His hobbies are art, music, and woodworking and his miscellaneous interests include aviation and flying. He lives at 721 South State Street, Oconomowoc.

FRANK J. PAQUETTE, new Junior Associate member, with the firm of Lefebvre-Wiggins and Associates, Milwaukee. His hobbies are racing, sailing and sketching. He has had three years at Washington University in St. Louis and two years at the University of Wisconsin. He is a native of Wisconsin, born in Minocqua, March 12, 1938.

News Notes

Lawrence E. Bray announces the opening of new architectural offices at Memorial Drive and 38th Street, Sheboygan. The firm is to be known as Lawrence E. Bray, Architect. Joining Larry in his new organization will be Richard Linde and John W. Bray.

Helmut Ajango and Clark F. Butts, both associate members of the American Institute of Architects, announced their partnership as Ajango & Butts, Designers with offices at 96B North Main Street, Fort Atkinson, Wis.

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For more information write: Milwaukee Area Bureau for Lathing and Plastering, 3274 North 77th St., Milwaukee 22, Wisconsin
The new Goodwin Greys' is an extremely warm grey wirecut face. The standard size units are produced by Des Moines Clay Company. Each of the three color ranges offers a distinct opportunity for special design effects.

A Reminder: Any brick in the Goodwin line may be ordered with the distinctive Rock Face feature.
GARYLITE Expanded Blast Furnace Slag makes concrete blocks lightweight, fire-resistant, attractive

Take a close look at the concrete blocks in this picture... notice their uniform texture and light gray color. They need no finishing to add to their beauty, but if you want to paint, plaster, or panel them, it’s an easy job. These blocks are made with USS Garylite Expanded Blast Furnace Slag Aggregate.

Masonry work goes faster when you use Garylite expanded slag blocks because they’re easier for workmen to handle. A standard 8 x 8 x 16-inch, three-cored Garylite block weighs 10 to 15 pounds less than the same size block made with other aggregates.

Concrete blocks made with USS Garylite expanded slag are highly resistant to fire. A Garylite block only 4.7 inches thick (solid equivalent) meets the National Board of Fire Underwriters’ 4-hour fire-resistance test. Moreover, these blocks are economical; their pronounced cellular structure provides good sound absorption and thermal insulation, lowering overall insulating costs; and Garylite slag blocks require no special fastening devices for furring strips — you can nail right into the blocks. Specify concrete blocks made with Garylite in your next building project.

For further information on USS Garylite Expanded Blast Furnace Slag, write or call:

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