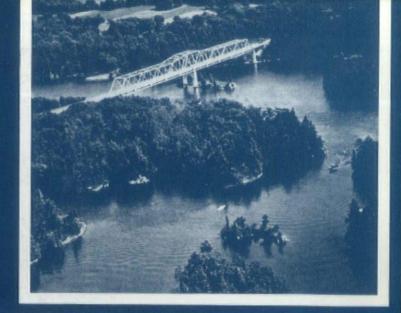
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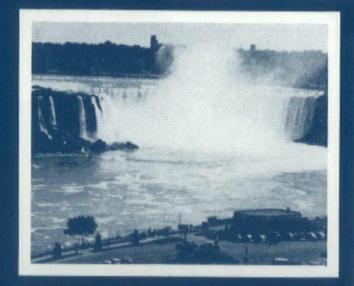
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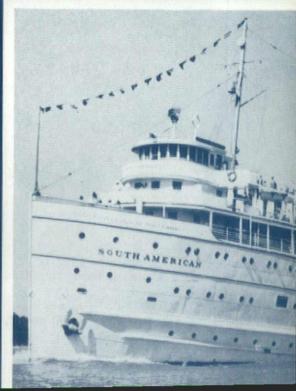
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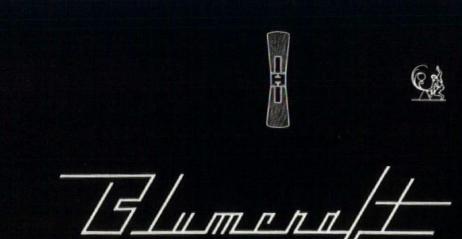




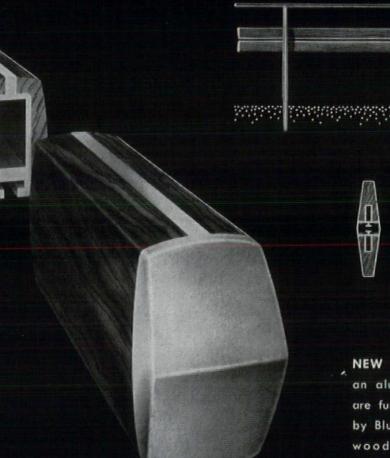




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September-October

Volume XXII

Number 5

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ARCHITECTS AND THE AIA

The objectives of the American Institute of Architects shall be to organize and unite in fellowship the architects of the United States of America; to combine their efforts so as to promote the aesthetic, scientific, and practical efficiency of the profession; to advance the science and art of planning and building by advancing the standards of architectural education, training, and practice; to coordinate the building industry and the profession of architecture to insure the advancement of the living standards of our people through their improved environment; and to make the profession of ever-increasing service to society.

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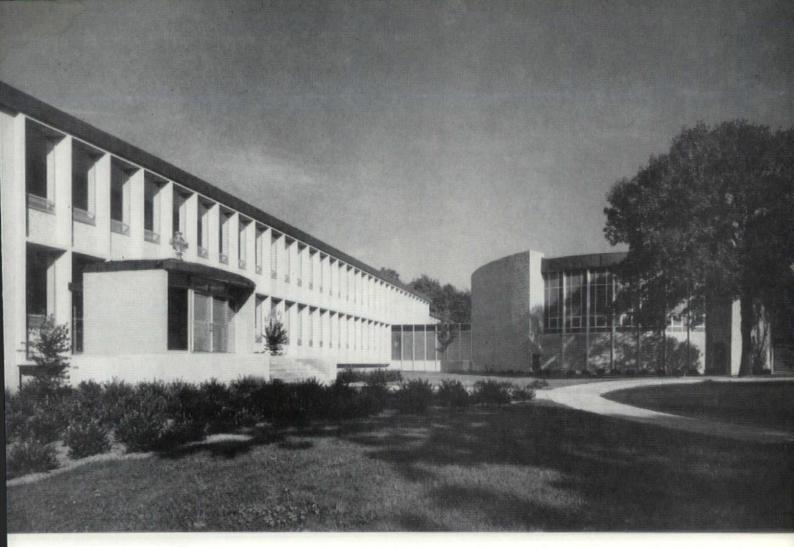
OHIO ARCHITECT publishes educational articles, architectural and building news, news of persons and the activities of the Architects Society of Ohio, a Region of the American Institute of Architects.

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Mount St. John Normal School

Architects:

Gartner, Burdick & Bauer-Nilsen Cincinnati, Ohio

John B. Gartner, Jr. AIA John A. Burdick AIA Otto Bauer-Nilsen AIA

Mount St. John Normal School is a college training center for some 240 young men aspiring to membership in the Society of Mary, a Catholic religious order. In addition to providing educational facilities, the building contains chapel, residence area, dining and recreational facilities . . . It was one of the primary concerns of the architects to concentrate as much as possible all required facilities so as not to infringe more than necessary on the surrounding landscape. At the same time it was desired to

maintain as much as possible the open feeling of that landscape in the building itself. These requirements were achieved by building up rather than out and turning space back upon itself by wrapping the building around interlocking courtyards to bring the landscape within the building itself. A subtle monastic feeling results . . . The chapel is seen as a central and focal point for all the building, old and new, existing and planned, on the property. The elliptical shape of the edifice visually contrasts with the surrounding rectangular buildings to emphasize the difference between the house of God and the houses of men. The ellipse also affects very favourably the interior arrangement of the chapel. The site occupied by Mount St. John Normal School is a level area in rolling country southeast of Dayton. The building structure is of masonry and reinforced concrete except for the solid masonry walls of the chapel. Extensive landscaped area surrounds the building.



Mt. St. John Normal School Chapel

NEW AIA MEMBERS

We would like to extend a personal welcome to Robert F. Gutzeit, AIA, Cleveland and Vauldine A. Curtis, AIA, Toledo, who have just become AIA members. Our office stands ready to serve you at any time. Please feel free to call upon us.

ASO BOARD PROPOSES CONSTITUTIONAL AMENDMENT

Special action of The ASO Executive Board recommended that the following amendment of the constitution be adopted at the forthcoming Annual Meeting.

Article VIII

A. Annual Meeting

1. Time and Place

a) The Society shall hold an Annual Meeting, the time and place to be fixed by the Board. if not fixed by the preceding Annual Meet-

b) The Regional Council shall hold an Annual Meeting, the time and place shall be fixed by the ASO Board, if not fixed by the preceding Annual Meeting.

c) The Society and Regional Council, may hold a joint Annual Meeting when it is deemed that such a meeting is of greater benefit to the Society and Regional Council, the time and place shall be fixed by the ASO Board.

The present wording of this section of the ASO Constitution is:

Article VIII

A. Annual Meeting.

1. Time and Place

The Society shall hold an Annual Meeting, the time and place shall be fixed by the Board, if not fixed by the preceding Annual Meeting. The Annual Meeting of the Society shall also be the meeting of the Regional Conference.

This proposed amendment will be presented for acceptance at the ASO Annual Meeting to be held Saturday, September 19, aboard the S.S. South American.

ASO OFFICERS HELD OVER FOR SECOND TERM

The ASO Nominating Committee, at a Workshop Session held in Columbus on August 15, recommended that all officers be held over for one more term. The one exception to this carry over was the office of Secretary, whose second term expires this year. The new secretary as recommended by the committee is Arthur H. Hoag, Jr., AIA, of Hargett-Hoag Associates, Cleveland, Ohio.

The Nominating Committee submits the following slate

for 1965 ASO offices:

President Joseph Tuchman, AIA

First Vice President

Eugene F. Schrand, AIA

Second Vice President

Richard L. Tully, AIA

Third Vice President Roy M. Lively, AIA

Secretary Arthur H. Hoag, Jr., AlA

Treasurer

Harold C. Munger, AIA

This slate of officers will be presented for election at the ASO Annual Meeting to be held Saturday, September 19, aboard the S.S. South American.

ASO MEMBERS ATTEND ANNUAL MSA MIDSUMMER CONFERENCE

Shown below are: Mrs. Charles Marr; ASO Prexy, Joseph Tuchman, Mrs. Joseph Tuchman, Mrs. Orville Bauer; Ohio Regional Director, Charles J. Marr, and past president; Orville H. Bauer, as they take a brief respite during the Michigan Society of Architect's 21st Midsummer Con-ference held at the Grand Hotel, Mackinac Island. All reports stated that the conference this year was one of the best to date, and those persons shown below obviously had a good time. Distinguished speakers heard by the group included: LeRoy E. Kiefer, Executive in charge of Industrial Design Studios, GMC Styling Staff who's topic was "Ride Into Tomorrow", and Edwin F. Toepfer, of the Toepfer Safe and Lock Company, Milwaukee, Wisconsin whose topic was "Physical Security versus Aesthetics."



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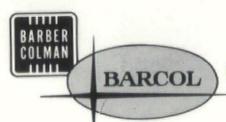
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INCLINE HOUSE LUXURY APARTMENTS

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Architect: E. A. Glendening AIA

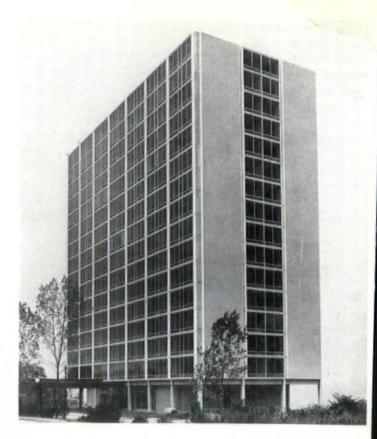
Structural Engineer: R. M. Gensert & Assoc. Mechanical Engineer: H. G. Keating Contractor: Hunkin-Conkey Construction Co.

Among the several recent high-rise apartment towers erected in Cincinnati is Incline House, with one-hundred and seventeen luxury living units, giving the city its first glass sheathed structure.

From its site at the top of the old Price Hill Incline is offered a sweeping view of Downtown Cincinnati, the Ohio River, the Kentucky hills, and the Millcreek Valley, directing the Architect to give to each tenant the entire drama and beauty of this view by employing large glass areas in his design. The simplicity of detailing contributes to the carefully articulated form, and makes it the first high-rise apartment tower in Cincinnati to use contemporary design in attracting tenants.



Page 8



The site was unusually difficult to build upon for it slopes 175 feet from the high point to the low point. The solution places the structure at the crest of the hill with the lobby and entrance at the level of the uphill street. Three basement levels and two levels of parking garage create a massive concrete base protruding from the side of the hill and contrasting strongly the relative lightness of the glass and concrete frame structure placed upon it.

The lobby floor, of which 50% is restaurant area, is set back from the main structure, thereby exposing the columns and further increasing the lightness of the main mass above.

The frame is reinforced concrete using a pan-joist system for the floor framing. The vertical members are left exposed on the exterior. The addition of vertical precast concrete panels extending outward from both sides of the columns and framing each window unit, gives the desired verticality to the building.

A grey tinted glass was used to control the glare and heat, and aid in visual privacy. The color of this glass on the exterior was an important design factor to the Architect. Fresh air grilles are incorporated into the window frame, giving a simple, clean window pattern. Directly behind these grilles, the



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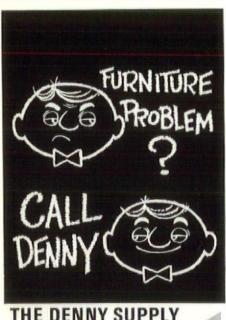
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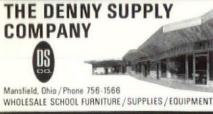
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Interior View Incline House

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There are 60% two bed room units, 30% one bed room units, and 10% three bed room and efficiency units making up the building. A typical two bed room apartment has entrance foyer, an 18'x20' living room, dining room,

kitchen with breakfast bar, and two baths. All apartments offer a dramatic view

The simple, crisp detailing found on the exterior also carries to the interior. This is accomplished in part by keeping to a minimum the number of materials used, and articulating corners, changes in plane, and changes in materials to clearly express the responsibility of each component. A great deal of intimacy is added to the corridors by the use of a dark stained wood ceiling, and warm colored carpet.

In addition to luxurious apartments, Incline House offers a swimming pool, laundry, valet, and shopping facilities, and inside parking for every tenant. A restaurant for the convenience of the tenants and the pleasure of the public offers a splendid view from the lobby level.



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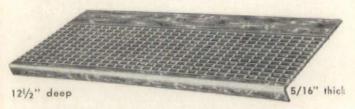
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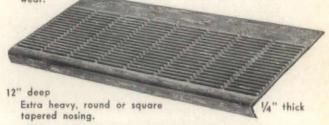


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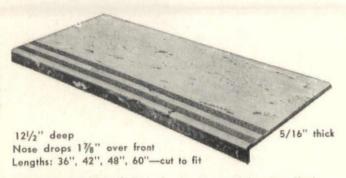
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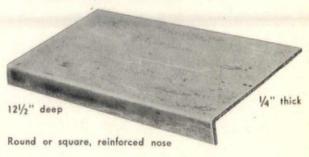
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On behalf of the officers and members of the Ontario Association of Architects, it is a sincere pleasure for me to extend to the members of the Architects Society of Ohio and their wives warm greetings and a cordial welcome to Ontario on the occasion of their 31st Annual Meeting.

It is our earnest hope that your visit with us will bring you both pleasure and profit, that your tour of the new Toronto City Hall will prove interesting, and that your social call at our Headquarters Building will be a convivial and delightful occasion.

We look forward with keen anticipation to your visit.

D'ARCY G. HELMER, President, Ontario Association of Architects.

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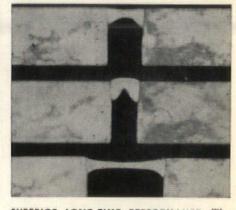
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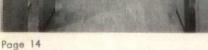
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Messiah Lutheran Church (Missouri Synod) completed the first phase of its new church building in 1963. The initial structure contains approximately 6,000 sq. ft. and was erected at a cost of about \$105,000. It is the first permanent church home for a newly organized congregation, and is located in a green belt area surrounding the Cincinnati suburb of Greenhills.

The church is situated on high ground overlooking a parklike setting, including a large lake. The building is therefore visible from many directions and is the most prominent feature of the surrounding landscape. This exposure, together with the congregation's limited budget and their desire to construct a sanctuary as the first phase of their church building program, presented the Architects with a challenging design problem.

It was recognized from the outset that the building would be seen from some distance, and would require a massive facade facing the valley and its lake if the structure were to have any importance in this large scale setting. It was therefore determined that the building should have a high window-wall facing the view, with a steeply pitched single-slope roof eliminating the need for a high wall on the opposite side of the building. In this way the scale of the building is made appropriate for visibility from a distance, while at the same time creating an interior space which directs the occupants attention toward the most attractive view. The resulting angular building form, accentuated by a masonry tower-wall element with a simple cross at its peak, provides an arresting interruption to the sylvan skyline.

Exterior materials consist of roughsawn redwood boards and split-face concrete block masonry with a composition shingled roof. Used in simple forms and masses, they recall in this building some of the character of the country churches of northern Europe, which are important in the heritage of the Lutheran Church.

The building structure consists of wall-bearing masonry supporting an upper floor of precast concrete decking, a super-structure of laminated wood arches, and a heavy timber roof deck. The rear of the sanctuary is constructed of wood framing so detailed as to permit its removal and relocation at a future date in order to provide for the expansion of the sanctuary. The upper floor is devoted entirely to the place of worship; the lower floor is used for fellowship and Christian education purposes.

Chancel furniture and furnishings were designed by the Architects. This includes pulpit, lectern, altar, baptismal font, cross, psalter, and candleholders. All chandeliers in the sanctuary were constructed by church members from a design by the Architects.

Eventually the building will be expanded to include, in addition to an enlarged sanctuary, extensive additional

space for Christian education, Church offices, and a larger fellowship hall. Parking facilities will also be increased. This expansion has been masterplanned in such a way that it may be carried out in a series of four construction phases. If the enthusiastic acceptance of Phase One by the community is any indication, additional construction will not be long in coming.

It is of significance that the building committee and general membership of this church comes from a denominational background which is distinguished throughout the country for the superior architectural design of its buildings. It was quite apparent to the Architects in working with this group that their background and exposure to good architecture earlier in their lives had had an important influence on their attitudes towards the design of this building, and contributed very directly to whatever architectural merit it may have.

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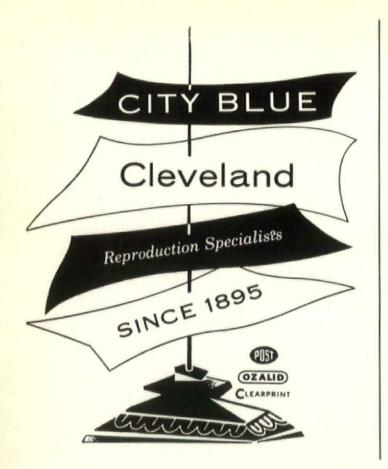
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IN MEMORIUM

George R. Harris

"Admiral" was a nickname George Rodney Harris acquired while a senior partner in the architectural firm of Garfield, Harris, Schafer, Flynn and Williams.

Buildings he designed included some of the famous early homes of Cleveland millionaires; hospitals such as Babies and Childrens, and Fairview Park; many branches of Ohio Bell; the County Administration Bldg., and even the milliondollar remodeling of the interior of Society for Savings Bank.

Mr. Harris died while vacationing in upstate New York, away from his Clearwater, Fla., retirement home. He was 78. Burial was in his native Coshocton, N. Y.

Mr. Harris, who graduated from Cornell University in 1909, retired in 1959.

Survivors include his wife, Estelle; a son, Rodney H.; a daughter, Mrs. John Bodwell, and four grandchildren.

Fred M. Morris, AIA, a member Emeritus of the American Institute of Architects and of the Toledo Chapter, AIA, passed away August 30, 1964, in the Lucas County Home for the Aged at 2101 Arlington Avenue, Toledo, Ohio.

Participating Firms ASO Annual Meeting

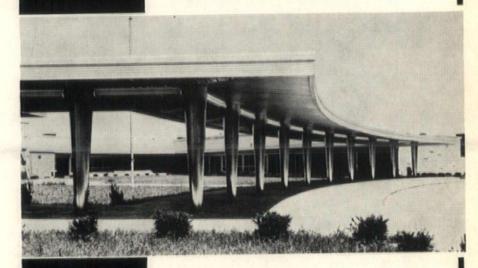
The following companies have indicated their desire to be exhibitors at the ASO Annual Meeting and Products Literature Display aboard the S.S. South American September 18-19-20.

Universal Rundle Architectural Stone Products Janson Industries The Claycraft Co. Mural Arts E. F. Hauserman Co. American Olean Tile Caloric Corp. Tiffin Scenic Studios U.S. Plywood Corp. Natco Corp. Steelcraft Mfg. Co. Columbia Gas of Ohio Vicon Supply Co. Libbey-Owens Ford B. F. Goodrich R. V. McCallister & Associates, Inc. Kawneer Company Ohio Prestressed Concrete Association Architectural Products Co. Lowe Brothers Paint A. O. Smith Corp.

Exhibits will be displayed in the Lounge on C-Deck aft. All architects are cordially invited to view these exhibits and visit with the company representatives during the cruise. Let's all patronize our exhibitors as they have spent lots of dollars and time to come to our Annual Meeting, and the least we can do is show our interest and appreciation for their attendance. Our cruise could not be a financial success without these companies.

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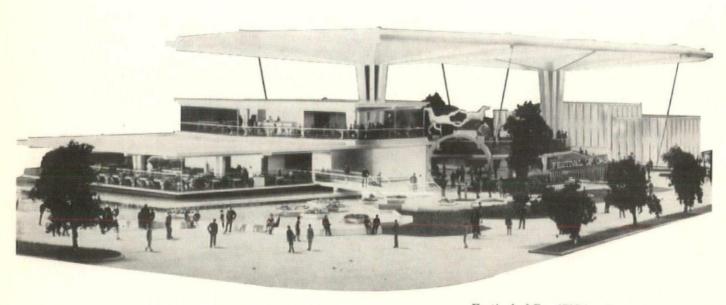
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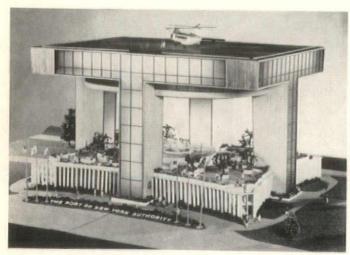
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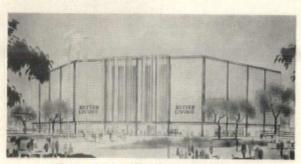
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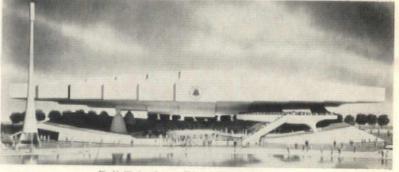
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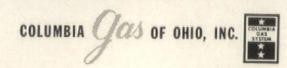


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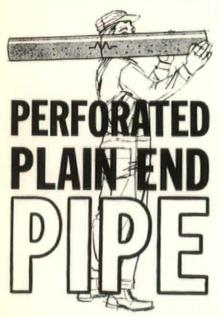


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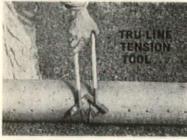
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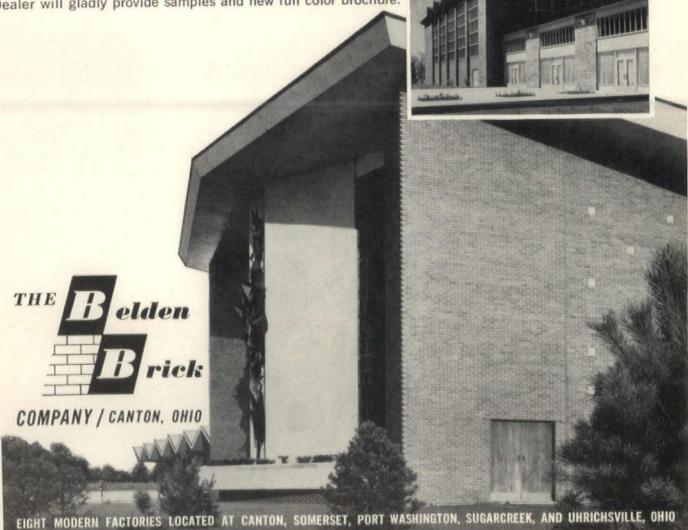
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PROGRAM

31st ASO ANNUAL MEETING

September 18-19-20. 1964 Aboard the S.S. South American

[Eastern Daylight Saving Time observed]

Friday, September 18, 1964

AFTERNOON

12:00 M - 2:00 p.m.
Board S.S. South American
Cleveland Pier 9 located behind Captain Frank's Restaurant. Departure of S.S. South American Executive Board meeting 2:30 - 4:30 p.m. (Ballroom A Deck aft) 2:30 - 6:00 p.m. Get acquainted party

(Grand Salon C Deck foreward)

EVENING 5:00 - 6:45 p.m. View Educational display of Product Literature Social Hour (Lounge C Deck aft) 7:00 - 8:00 p.m. Dinner (Dining Room - Main Deck foreward) 8:00 - 9:00 p.m. View Educational display of Product Literature Social Hour (Lounge C Deck aft) 9:00 - ?? Bon Voyage Party (Veranda Cafe - B Deck aft) 10:00 - 11:00 p.m. Entertainment (Grand Salon — C Deck foreward) 11:00 - ?? Dancing (Ballroom A Deck aft) 11:30 Buffet 12:00 Midnight Pass Port Colbourne

Saturday, September 19, 1964

MORNING

7:00 - 9:00 a.m. Breakfast (Dining Room - Main Deck foreward) 9:00 a.m. — 12 M Annual Meeting (Grand Salon — C Deck foreward)

AFTERNOON

12:00 M - 1:00 p.m. View Educational Display of Product Literature Social Hour (Lounge - C Deck aft) 12:00 M Pass Port Weller - Ontario 1:00 - 2:00 Lunch (Dining Room - Main Deck foreward) 2:00 p.m. Arrive Toronto Ontario

2:15 p.m. Trip to world famous Toronto City Hall by Host Chapter - Toronto Ontario Cocktail Party -Ontario Association of Architects Headquarters Bldg. Wives shopping tour 6:00 p.m. Depart from Toronto Ontario 6:00 - 7:30 p.m. View Educational Display of Product Literature Social Hour (Lounge - C Deck aft)

EVENING

6:30 - 7:30 p.m. President's Reception (Ballroom A Deck aft) 7:30 - 9:00 p.m. Annual Banquet (Dining Room - Main Deck foreward) 8:00 p.m. Pass Port Weller - Ontario 9:00 p.m. Mr. Fitch - European Slides (Grand Salon C Deck foreward) 9:30 - 12 Midnight President's Party (Veranda Cafe — B Deck aft) 9:30 - 12 Midnight Dancing (Ballroom - A Deck aft)

Sunday, September 20, 1964

MORNING

7:00 - 9:00 a.m. Breakfast (Dining Room - Main Deck foreward) 8:00 a.m. Pass Port Colbourne 9:30 - 10:30 a.m. Worship Services 10:30 - 12:30 a.m. Seminar (Grand Salon C Deck foreward)

AFTERNOON

11:30 - 12:30 p.m. Ladies' luncheon (Dining Room - Main Deck foreward) 12:30 - 1:30 p.m. Men's luncheon 2:00 - 4:30 p.m. Seminar (Grand Salon - C Deck foreward) 4:30 - 6:00 p.m. Refreshments, Snacks and Entertainment provided for a gala return to Cleveland 6:00 p.m.

Arrive Cleveland Pier 9



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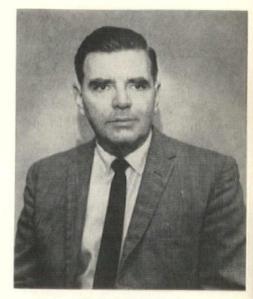
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George McCue

James Marston Fitch, Professor of Architecture at Columbia University graduated from The University of Alabama, and the School of Architecture at Tulane University in New Orleans. His professional experience includes: Draftsman and designer, Nashville, Tennessee, Demographic Researcher, Tennessee State Planning Commission, Nashville, Housing Analyst, Federal Housing Administration, Washington, D.C., Weather Forecaster, U.S. Army Air Forces, Associate Editor, Architectural Record, New York, Technical Editor, Architectural Forum, Architectural Editor, House Beautiful, Lecturer, School of Architecture, Columbia University, Associate Professor of Architecture, Columbia University and Professor of Architecture, Columbia University.

Mr. Fitch's travel and research includes a Housing Study with Henry Wright and Clarence Stein, New York, a William Kinne Fellows Grant at Columbia University, for a study of Byzantine monuments in Italy, Greece, Turkey in 1959. And his travel and study in the preservation of historic monu-

ments in Middle Europe, Middle East, Africa in 1962-63.

Fitch has written for the Walter Gropius Publication in 1960 which was translated to Italian in 1961 and then into German in 1962. He also wrote an article on Architecture and the Esthetics of Plenty for The Columbia University Press, New York in 1961. He has written articles in many American and European periodicals and has had numerous papers read before scholarly societies.

Fitch holds memberships in The American Society of Architectural Historians and the Architectural League of New York.

George McCue, Art Critic for The Sr. Louis Post-Dispatch, was born in Lipscomb, Texas, May 13, 1910 and has lived in the middle west all his life. His work has taken him to residences in Texas, Arkansas, Illinois, Iowa, and Missouri. Most of his life time has been spent in Missouri, where he has lived in Hannibal, St. Louis, Brookfield, Springfield and Jefferson City.

Mr. McCue holds a Bachelor of Journalism from the University of Missouri,

and his first professional experience was on a country paper at Brookfield. He then became affiliated with the Associated Press in Jefferson City, where he covered City Hall and County offices. Mr. McCue wrote editorials and was Sunday City Editor at Springfield. He then took the assignment of reporter for the now defunct Star Times, afterwhich he worked with the Post Dispatch where he covered criminal courts. He spent eleven years with Sunday Pictures (roto) Magazine, including three years as assistant editor. Mr. McCue was appointed Art Critic in 1956, with the understanding that architecture and urban planning was included in purview.

George McCue has been honored with two first prizes, and one second in AIA Architectural Journalism Competition. He was made an Honorary Associate of the St. Louis Chapter, AIA in 1959 and an Honorary member of the American Institute of Architects in 1964. He has taken part in AIA Journalism seminars at Columbia University, Lexington, St. Louis, Baton Rouge, Eugene, Oregon, and San Francisco.



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Consulting Architect: Benjamin Dombar AIA Consulting Engineers: Beinke & Ruehlmann Interior: Backus Brothers

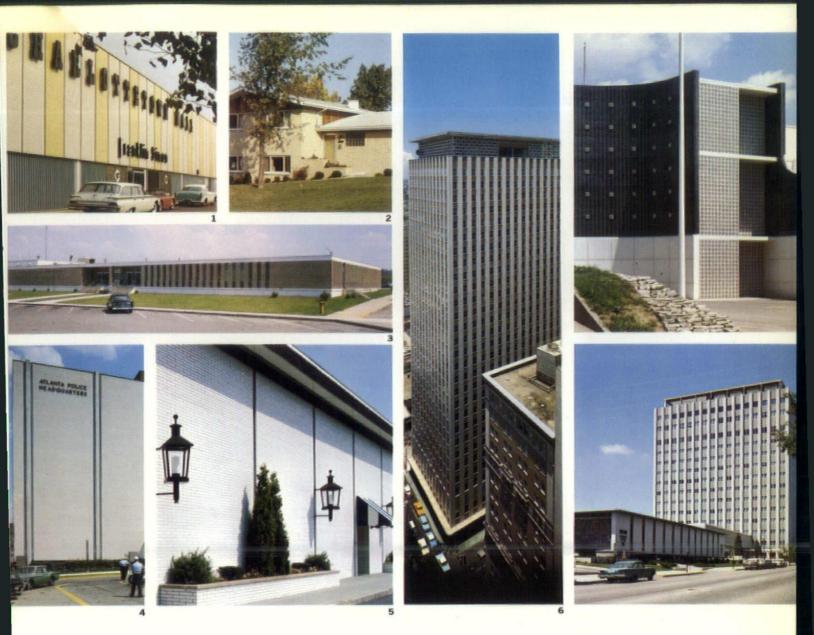
In 1961 the Cincinnati Jewish community realized the need for a new Orthodox Home for the Aged. Their goal, as quoted from their brochure, is as follows, "... to enable our elders to live full lives physically, mentally, religiously... in a modern home of sufficient size to house comfortaby their ever increasing numbers. The new Home should be a world in a world, It's residents will be acutely aware that they are a part of the community. Yet, the Home's activities will enable our aged

to achieve fulfillment in living by providing goals within their potential and facilities to ease their efforts."

The Home, designed to meet this goal, is situated on a well landscaped site facing varied vistas of human activities, such as a golf course across Paddock Road, a large pool with fountain, lighted exterior walks around the building, all to provide a serene amtosphere.

The residential zone, or bedroom wings, have been so placed and designed to afford maximum privacy on the site, so situated that each wing may be oriented towards a private court area, terrace or broad expanses of the

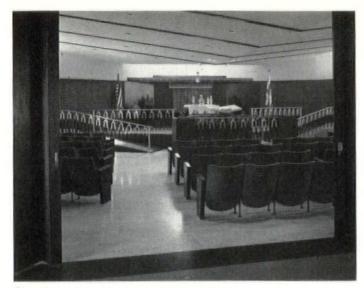
undeveloped areas of the site. The three residential wings, have provisions for 48 semi private and 22 private bedrooms. Each wing has its own terrace, enclosed porch and court yard. All oriented for maximum solar benefits. Due to site restrictions and topography the bedroom wings are of two story construction. This means that the capable aged will only have one flight of stairs to negotiate, or if they prefer there are two elevators provided within the building for those in a semi-ambulatory condition. The exterior of the residential wings (and repeated around the exterior facades) are of warm toned brick and wood panels and wood battens.



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Lobby



Dining Room

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The lobby leads to either the administrative complex, vertical circulation, or to the social and recreational areas of the first floor. The synagogue, recreation room dining room and occupational therapy room are all divided by soundproof folding partitions to assure the maximum amount of flexibility in plan for maximum use on any given special occasion. The occupational therapy room has a concealed ceiling track with sliding drapes to provide an enclosed area that may be used as a stage for special dramatic or musical presentations.

The dining room is of ample proportions to accommodate 150 persons. Thru the all-glass east wall there is a view of a secluded court yard formed by the synagogue, dining room and medical wing. Provisions have been made that even a bed patient may be moved to the enclosed court, protected from the prevailing winds.

The site with well chosen trees, shrubbery and ground cover, meandering walks (with low height night illumination) has been planned for the residents to use and enjoy during both daytime and nightime. By its location to everyday human activity—pedestrian, vehicular, sedate and robust, and within walking distance of public transportation, we hope and feel that along with the planning that has been devoted to their well being, that the physical, recreational, social, mental and religious goals of the residents has been achieved.

Consultants on this project were: Benjamin Dombar, AIA, Consulting Architect, Beineke and Ruehlmann, Consulting Engineers and Backus Brothers, Interior Consultant.

coloring pigments. also an excellent tinting base for mineral made with white portland cement. It is surfaces of unusual beauty and variety. gate, architects, today, choose concrete true colors and textures of the aggre-To emphasize the gleaming freshness, Exposed aggregate provides concrete

close, less reveal is needed. When panels required for a rough textured look. of pedestrian traffic, greater reveal is are some distance from the main flow When panels are to be viewed relatively largely determined by aggregate size. Reveal of precast concrete panels is

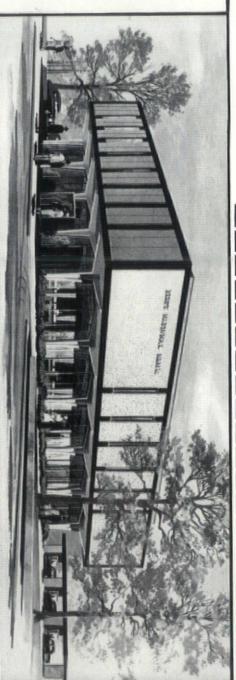
distance due to the high reflectance of to appear white when viewed from a the surface. Polished panels of pastel colors tend

white cement. possible with commercial aggregates and onstrates the unlimited range of colors Shown at right is a table which dem-

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2"-3"	1"-2"	1/2"-1"	1/4"-1/2"	ggregate size
125—175 feet	75-125 feet	30- 75 feet	20- 30 feet	distance at which texture is visible



First National Bank, San Angelo, Texas. Architects: Abel B. Pierce and George Pierce, A.I.A., Architect & Planning Consultants, Houston. Structural Engineer: Walter P. Moore, Houston. Contractor: Templeton & Cannon, San Angelo

GLASS* CERAMIC THE SAND SAND PEBBLES MARBLE GRANITE GRANITE ZERAMIC J'4"-5" J'4"-5" J'4"-2" GRANITE ZERAMIC J'2"-2"	SIZE 1/4"—11/2" ARTIFICIAL 1/4"—11/2" fine to coarse 1/2"—2" 1/2"—2"	SIZE 1/4"—11/2" ARTIFICIAL 1/4"—11/2" fine to coarse 1/4"—6" 3/4"—2" 1/2"—2"			A CONTRACTOR	1			1
	SIZE 1/4"—11/2" 1/4"—11/2" fine to coarse 1/4"—6" 1/2"—2" 3/4"—21/2"	SIZE USES 1/4"—11/2" stained glass, walls, panels 1/4"—11/2" curtain wall panels, ornamental work fine to coarse plain or sculptured panels 1/4"—6" tilt-up walls, panels, walkways 1/2"—2" curtain wall panels, walkways 1/2"—21/2" tilt-up walls, panels, walkways 1/2"—2" curtain wall panels 1/2"—2" curtain wall	QUARTZ	GRANITE	MARBLE	PEBBLES	SAND	CERAMIC	GLASS*
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	stained glass, walls, panels curtain wall panels, ornamental work plain or sculp- tured panels tilt-up walls, panels, walkways curtain wall panels filt-up walls, panels curtain wall panels	ork ays	1/2"-2"	3/4"-21/2"	1/2"-2"	1/4"-6"	fine to coarse	1/4"—11/2"	SIZE 1/4"—11/2"

PORTLAND CEMENT ASSOCIATION

in the cement to cause expansion. Consult glass manufacturer to determine if glass is reactive. Kedcilalia: some Amases may read

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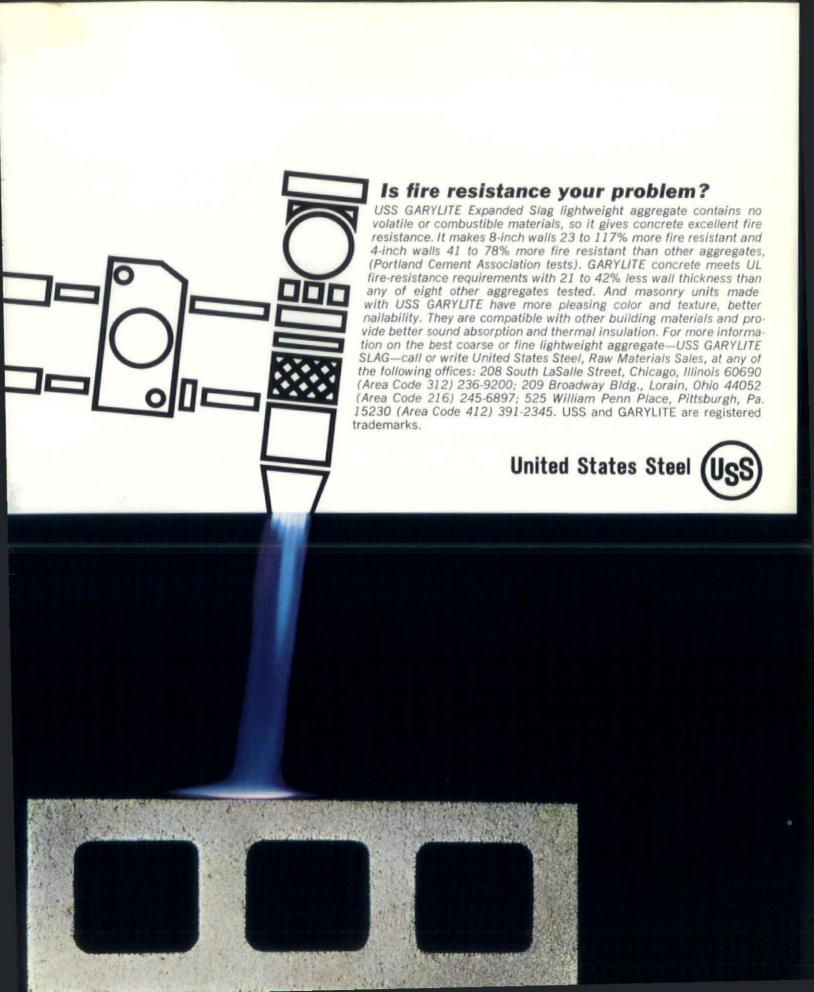
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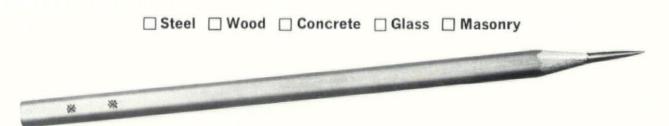
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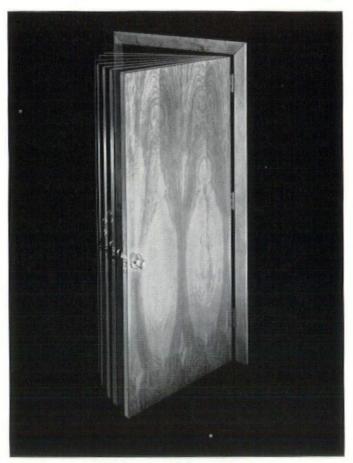
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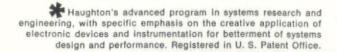
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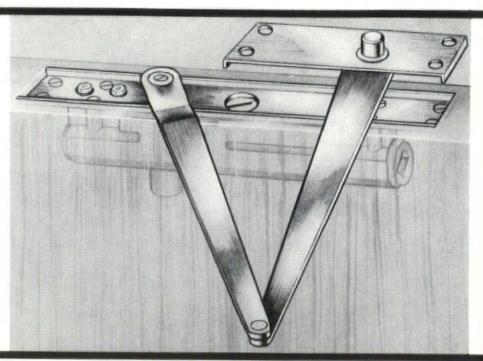


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