

copy

AMERICAN INSTITUTE
OF
ARCHITECTS
JAN 31 1961
LIBRARY



OHIO ARCHITECT

OFFICIAL PUBLICATION OF THE ARCHITECTS SOCIETY OF OHIO
OF THE AMERICAN INSTITUTE OF ARCHITECTS, INC

JANUARY
1961



Bounce on it!

and Feel the Cushioned Flex of KREOLITE Gym Floors

With apologies to Pepsi-Cola, we are saying "KREOLITE, the floor with more bounce to the ounce".

It so aptly describes KREOLITE FLEXIBLE STRIP End Grain Wood Block Flooring with its built-in cushioning resiliency.

Kreolite has other most wanted features that make it a better gym floor; Durable Beauty, Easy and Economical to install and maintain . . . it's safer too, because it's splinter-proof.

Liked by players and coaches and preferred by budget conscious school officials, Kreolite will prove to be the most satisfactory floor you ever specified. Write today for performance data and specifications. Take your first step to better floors for gyms, multi-purpose rooms or shops.

KREOLITE

FLEXIBLE STRIP

END GRAIN FLOORING

↓
**THE
JENNISON-WRIGHT
CORPORATION
TOLEDO 9, OHIO**

OFFICERS

President
Gilbert Coddington, FAIA
 Brooks & Coddington
 3826 North High Street
 Columbus, Ohio

Third Vice President
Joseph Tuchman, AIA
 Tuchman & Canute
 777 West Market Street
 Akron 3, Ohio

First Vice President
Howard B. Cain, AIA
 Dickerson & Cain
 Park Building
 Cleveland 14, Ohio

Secretary
Robert W. Lecklider, AIA
 Yount, Sullivan & Lecklider
 Third National Building
 Dayton 2, Ohio

Second Vice President
Orville H. Bauer, AIA
 Bellman, Gillett & Richards
 1600 Madison Avenue
 Toledo 2, Ohio

Treasurer
William R. Bogart, AIA
 Garriott & Becker
 2414 Grandview Avenue
 Cincinnati, Ohio

Immediate Past President
Harold W. Goetz, AIA
 56 South Main Street
 Middletown, Ohio

Executive Director
Clifford E. Sapp
 5 East Long Street
 Columbus, Ohio

EDITORIAL STAFF

Publication Committee
Chairman
Howard B. Cain, AIA
 Park Building
 Cleveland 14, Ohio

Managing Editor
Clifford E. Sapp
 5 East Long Street
 Columbus 15, Ohio
 Telephone: Capital 1-9630

Technical Editor
David A. Pierce, AIA
 4501 North High Street
 Columbus 14, Ohio

Editor
Anne Strickland
 5 East Long Street
 Columbus, Ohio

ASSOCIATE EDITORS

Cincinnati
Alfred W. Ambrosius
 Oak & Chestnut Sts.
 Cincinnati 27, Ohio

Dayton
Robert J. Makarius, Jr., AIA
 312 Harries Building
 Dayton 2, Ohio

Cleveland
Charles E. Rimer
 Mather Lane
 Hunting Valley Village
 Chagrin Falls, Ohio

Eastern Ohio
Roger F. Buzzard, AIA
 532 West Park Ave.
 Barberton, Ohio

Columbus
Richard H. Eiselt, AIA
 332 S. Cassady Ave.
 Columbus 9, Ohio

Toledo
Noel J. Blank
 Security Building
 Toledo 4, Ohio

OHIO ARCHITECT is the monthly official magazine of the Architects Society of Ohio, Inc., of the American Institute of Architects. Opinions expressed herein are not necessarily those of the Society.

Accepted as controlled circulation published at Athens, Ohio.

Editorial and Advertising office: Five East Long Street, Columbus 15, Ohio. Printed at: The Lawhead Press, 900 East State Street, Athens, Ohio.

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

OHIO ARCHITECT is available at a subscription cost of \$4.00 each year or .50 cents each issue. Roster issue: \$1.00.

JANUARY, 1961

OHIO ARCHITECT

OFFICIAL PUBLICATION OF THE ARCHITECTS SOCIETY OF OHIO
 OF THE AMERICAN INSTITUTE OF ARCHITECTS, INC

JANUARY, 1961

Volume XIX

Number 1

CONTENTS

FEATURES

- 5 A Bank is Born
Architects Taylor and Liebersbach
- 9 Great Lakes Regional Convention Program

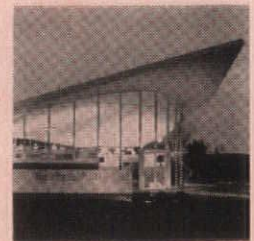
AIA AND ASO NEWS

- 12 Cleveland Chapter Honors Country Church
- 12 Legislative Notebook
- 13 Obituaries
- 16 Columbus Chapter Officers Elected
- 16 AIA Convention Program Set
- 19 Advertisers Index

COVER AND FEATURE MATERIAL

Cover and feature material in the January issue were under the direction of Richard H. Eiselt, AIA, Associate Editor of the Columbus Chapter of the American Institute of Architects.

The Reynoldsburg Bank, Reynoldsburg, Ohio, pictured on the cover is the work of Architects Taylor and Liebersbach.



Copyright 1960 Architects Society of Ohio, Inc. of the American Institute of Architects. All rights reserved.

They look alike, but...

it takes Dur-o-wal to keep them alike!

Two masonry walls: They can be twins in surface charm and solidity. Yet, one can be the better building investment—free of maintenance problems for important extra years. That's the one built with Dur-o-wal, the original steel masonry wall reinforcement.

A wall reinforced every second course with Standard Weight Dur-o-wal has 71 per cent greater

flexural strength than its unreinforced counterpart.

With its trussed design, butt-welded construction, scientifically deformed rods, Dur-o-wal is considered the most practical thing of its kind by builders everywhere. Nationally wanted, Dur-o-wal is nationally distributed. Wherever you build a masonry wall, you can get Dur-o-wal.

DUR-O-WAL®

Masonry Wall Reinforcement and Rapid Control Joint

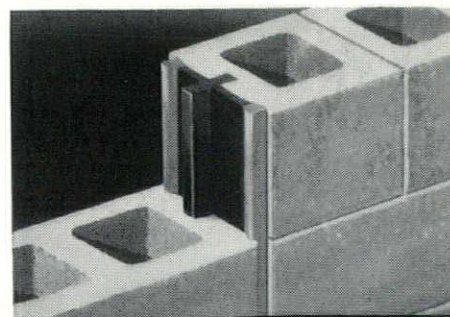
RIGID BACKBONE OF STEEL FOR EVERY MASONRY WALL

DUR-O-WAL MANUFACTURING PLANTS

- Dur-O-wal Div., Cedar Rapids Block Co., CEDAR RAPIDS, IA.
- Dur-O-wal Prod., Inc., Box 628, SYRACUSE, N. Y.
- Dur-O-wal Div., Frontier Mfg. Co., Box 49, PHOENIX, ARIZ.
- Dur-O-wal Prod., Inc., 4500 E. Lombard St., BALTIMORE, MD.
- Dur-O-wal of Ill., 260 S. Highland Ave., AURORA, ILL.
- Dur-O-wal Prod. of Ala., Inc., Box 5446, BIRMINGHAM, ALA.
- Dur-O-wal of Colorado, 29th and Court St., PUEBLO, COLO.
- Dur-O-wal Inc., 1678 Norwood Ave., TOLEDO, OHIO
- Dur-O-wal Ltd., 352 Mac Nab St. North, Postal Station B, HAMILTON, ONTARIO, CANADA



Two engineered products that meet a need, Dur-o-wal reinforcement, shown above, and Rapid Control Joint, below. Weatherproof neoprene flanges on the latter flex with the joint, simplify the caulking problem.





A *Bank is Born*

ARCHITECTS TAYLOR and LIEBERSBACH

■ THE REYNOLDSBURG BANK is very typical of the Reynoldsburg community area. The city itself is one of the fastest growing suburban communities in the state of Ohio. It is composed primarily of young, contemporary-minded families with a good measure of established older residents who carry strong local roots.

The bank, itself, is locally owned. It has had an extremely rapid growth in the four short years since its doors were first opened for business. The Reynoldsburg Bank was first located in an existing corner building in the center of the business district. The rapid growth of Reynoldsburg, with the attendant need for additional banking space and facilities, soon forced the Officers and Directors of the Bank to think of a new structure that would reflect the growth of the Reynoldsburg area.

With this background the Building Committee for the bank desired a modern banking facility; one that would remain fairly contemporary for the next decade and yet be entirely suitable for the banks' present and future operations. It also had to be within the budget limitations as set up within present banking laws and regulations.

The initial sketches prepared by Taylor and Liebers-

bach were in the normal vein of conservative and typical bank work. But as these schemes were developed further, it became evident that a more contemporary banking facility would be highly suitable for the operational features of the bank. With more study of the site and requirements of the Building Committee it was noted that a circular structure, or a building that would move and force traffic considerations in a circular pattern, would have possibilities of execution. Study of the operations of the bank proved that a circular traffic pattern was very evident and that the architects would of necessity need to recognize this pattern of internal circulation.

Various schemes of circular and elliptical ideas, with some polygonal variations, were explored. In plan and in perspective, each solution was highly dependent upon the cost factor. The budget figure given to the architects was extremely tight, and each building scheme required intensive study in order that the cost factors could be held to an absolute minimum. With each scheme considered, it became evident that the structural system would be the most important factor in the design solution. To provide a striking banking facility which would be indicative of the

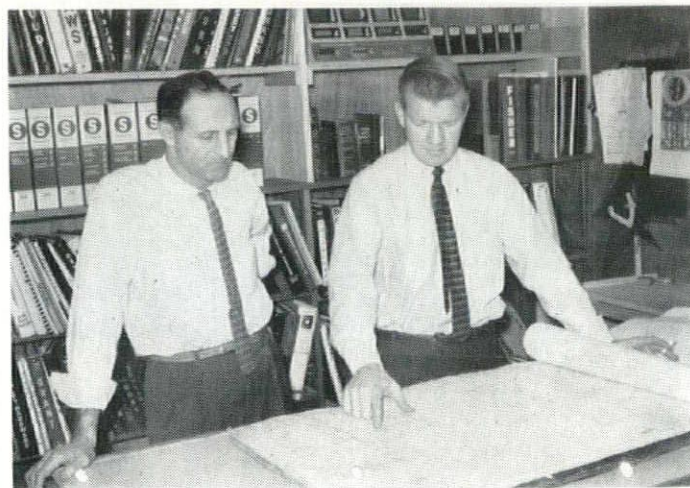


VIEW AT RIGHT LOOKING NORTHWEST TO MAIN ENTRANCE

Reynoldsburg community growth, as well as functional in regard to bank operations, became the main problem that required solution.

After considerable study the architects submitted finished sketches and a model of a circular structure with a saddle-shell roof to the bank's Building Committee for consideration. The committee was skeptical in their first reaction, feeling that the design was a little too much on the radical side. Arrangements were then made with the assistance of The Portland Cement Association to visit St. Edmund's Episcopal Church in Elm Grove, Wisconsin. This contemporary church has a saddle-shell roof, built entirely of concrete, similar in design to the proposal the architects had submitted to the bank for consideration. The enthusiasm of the Rector at St. Edmund's for the hyperbolic paraboloid shell was very evident. The economy of construction and the striking appeal of the roof line were important factors in convincing the Building Committee on the adoption of the proposals submitted by the architects.

In preliminary research on hyperbolic paraboloid roof structure, it was noted that while the saddle-shell roof carried graceful lines, the abutment supports that transmitted the stresses to the post-tensioned support beam were generally nothing more than enormous masses of concrete without any feeling of carrying the roof lines to and through the supports. Considerable study went into the final design of the abutments in order to accentuate to some degree the flowing lines of the roof beams with the flatness of the existing grade levels. The problems of de-



ARCHITECTS LAWRENCE LIEBERSBACH AND HERBERT TAYLOR

signing support abutments into masses that would be pleasing to the eye, as well as taking the additional stress involved, were somewhat increased by the placement of the drive-in window under the shelter of the roof-shell where it joined the north-east abutment.

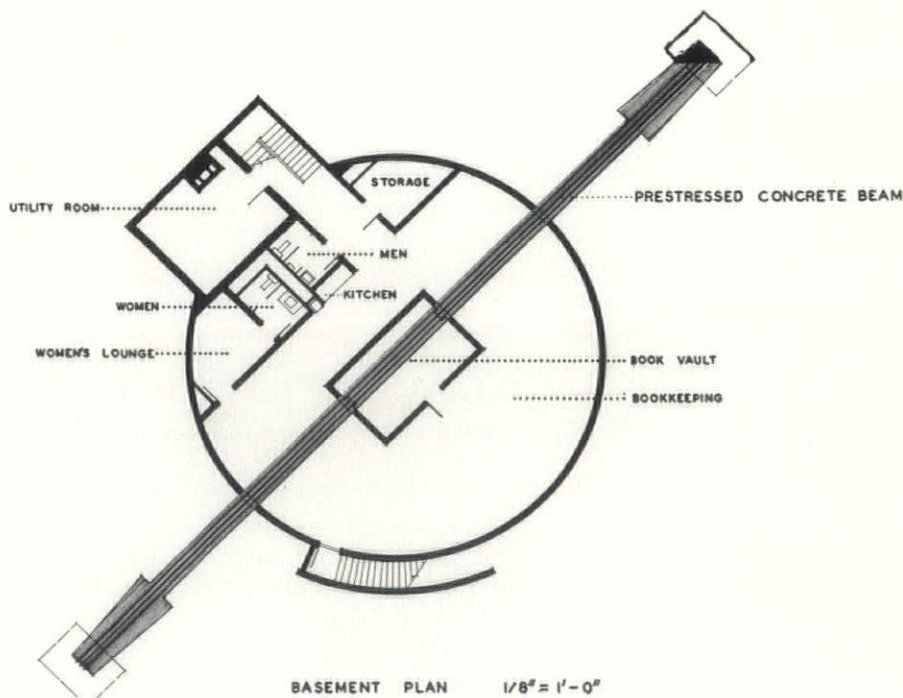
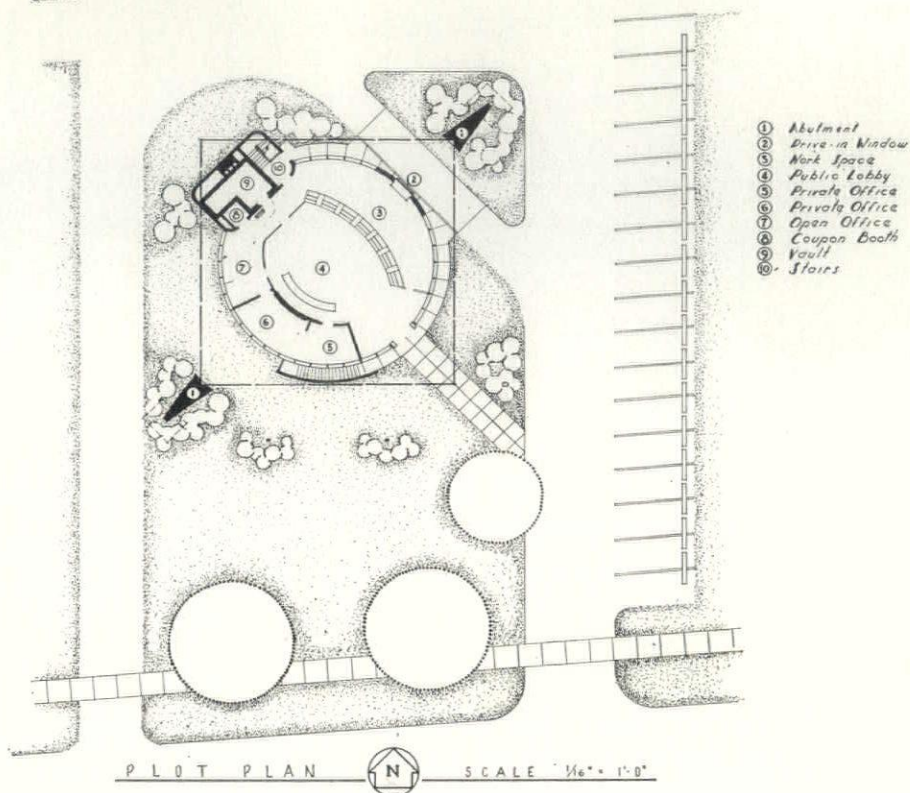
The horizontal projection of the roof is 63 feet square, with the northwest and southeast corners elevated. The southeast peak or the right, front peak is approximately 20 feet above grade. The northwest peak or left, rear peak, is about 12 feet above grade. The front half of the shell is $3\frac{1}{2}$ inches thick while the rear half of the shell is 3 inches thick. Since the shell is tilted, the slab thicknesses are designed as balancing factors. The edge

beams of the shell taper from 1 ft. wide by 1 ft. deep at the peaks to 2 ft. 3 inches wide by 1 ft. 8 inches deep at the abutments.

The circular walls of the structure enclose an area that is 53 feet in diameter from which a vault area, approximately 15 feet by 25 feet, extends to the northwest. The walls of the circular portion of the work are brick both inside and outside the cavity wall construction with an insulated filler lining. This wall is wainscot height to afford privacy to the office portions of the floor plan. From this wainscot to the ceiling, completely around the building, there is Pittsburgh Plate Glass Company, 3/16 inch Graylite set in 21-inch by 41-inch aluminum tube mullions. The windows are fixed at the wainscot sill but are left free to ride in an aluminum channel at the ceiling line to allow for the continual expansion and contraction of the concrete roof-shell. Generous use of ceramic tile features assist in providing the light feeling desired in the original design. The drive-up window for auto banking is located under the shelter of the northeast abutment. The vault is reinforced concrete on all sides.

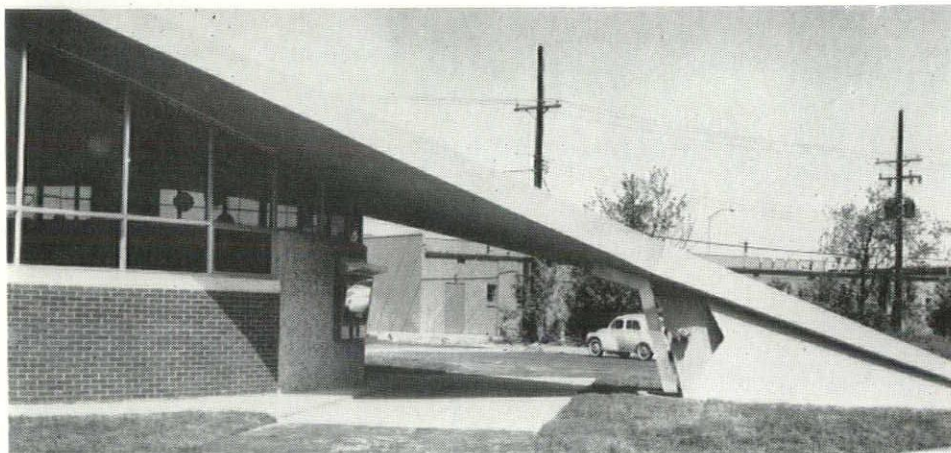
The main floor is over a full basement. It is partially supported by the post-tensioned tie beam that extends through the structure from abutment to abutment. The tie beam is 2 ft. 8 inches wide by 1 ft. 6 inches deep and is pre-stressed by six 1 1/4 inch diameter, high-strength, round bars that are post-tensioned to 72,000 pounds per square inch each. These bars were inserted inside of tubes to hold them free of the tie beam until the tensioning operation was completed. The public areas of the main banking floor are concrete with a terrazzo finish and either asphalt tile or carpet in the balance of the first floor work or office areas.

The shell-roof on the interior has an acoustic plaster ceiling that is glued with Plasterweld to the concrete. The underside of the exposed overhanging portions of the concrete roof is left exposed and painted with masonry paint in a light blue color. The upper surfaces of the shell are covered with 2 inches of Owens-Corning Fiberglas insulation. Over this there is a 4-ply, built-up roof on which a final coating





VIEW FROM SOUTHWEST AT NIGHT



ENTRANCE TO DRIVE-UP WINDOW

of white plastic Thermo-roof is sprayed. Two stairways are provided to the basement work areas. One is on the exterior and is conveniently located near the main entrance so that the bank may operate a future personal loan office in a portion of the basement. The other stairway is adjacent to the first floor workspace to provide easy access to the basement bookkeeping room. Heating and air conditioning is provided by three Arkla-Servel, all-year, air conditioning units located in the utility room immediately below the vault area. The balance of the basement space contains bookkeeping areas, book vault, storage space, kitchen area, and lounges and rest rooms for the employees.

The construction procedure was simply done, with the basement walls and floor formed and poured within two weeks after construction began.

The next operation included the pouring of the tie beam. Since steel joists were not immediately available, due to the steel strike then in progress, work on the roof progressed by shoring all the way to the basement floor. Concrete for the shell roof and the two abutments were placed and finished in a single day on December 17, 1959. The total pour for the roof and the abutments amounted to approximately 60 cubic yards of 3750 psi concrete with a maximum slump of 2½ inches. After the shell pour was completed, the exterior was then enclosed with Visqueen plastic film drawn over the formwork. Continuous inspection of the formwork was required to avoid possibilities of settlement while the roof pour was in progress. Heat was then provided not only to cure the concrete but also to heat the enclosed area so that work on the interior could pro-

ceed during the cold, winter months.

When concrete tests showed that the roof concrete had arrived at the necessary strength required, the tie beam was post-tensioned with hundred-ton jacks. Each rod was tensioned to the prescribed 72,000 psi stress and the tubes were then grouted. The entire tensioning operation required only three hours work. Shores were then removed and the structure was ready for the completion of the wainscot, walls, and the balance of the floor work required. The plastic enclosure provided ample light for work within the building. Construction proceeded on schedule with the final opening delayed only by sewer and water connections that had to be brought to the site by the Reynoldsburg Service Department.

Structural Engineer for the project was Russell S. Fling and Associates of Columbus. The General Contract for the work was held by the C. C. Vogel Company of Columbus. The Plumbing, Heating and Air Conditioning work was completed by the Limbach Company, also of Columbus. Holding the Electrical work contract was the Columbus firm of Electrical Contractors, Inc. Schwartz - Showell Corporation, Columbus, Ohio completed the Fixture Work, with the vault equipment being purchased from The Guardian Burglar-Proof Equipment Company of Cleveland, Ohio. Desks and chairs are in Herman Miller and Florence Knoll, selected from the Columbus Blank Book Company.

GREAT LAKES REGIONAL CONFERENCE SET FOR KENTUCKY

The annual meeting of the Great Lakes Region of the American Institute of Architects will be held February 9, 10 and 11, 1961 in historic Lexington, Kentucky. The Association of Student Chapters of the Great Lakes District, representing eleven collegiate Schools of Architecture will be included in the meeting, to be held at the Phoenix Hotel and at the University of Kentucky.

Registration opens on the mezzanine floor of the Phoenix at 1 p.m., February 9 and will continue through 6 p.m., Friday, February 10th. Registration fees are: Corporate member, \$10.00; Associate member, \$5.00 and student members \$1.00. There will be no charge for wives attending.

A Public Relations Workshop has been arranged in conjunction with the meeting. The Public Relations Chairmen from the various chapters will hold the session at the Phoenix Hotel on Thursday afternoon, February 9, and also a breakfast meeting on Saturday morning. As Regional Public Relations Chairman, Elmer Manson, AIA, Lansing, Michigan, will conduct the Work Shop on PR.

Thursday's events will also include the pre-conference meeting of Chapter Presidents and National Committeemen of the Great Lakes Region, AIA. A cocktail hour will be held at historic Hunt-Morgan House prior to dinner for delegates and their wives at the homes of local architects. Friday morning, the program will include addresses by AIA President Phil Will, Walter Netsche, Partner-in-charge of Skidmore, Owings and Merrill Chicago office, and Arthur Kraft, sculptor from Kansas City, Missouri. The banquet will be held Friday evening, with Alexander S. Cochran, Architect, of Baltimore, Maryland as the principal speaker. Saturday morning will include committee meetings at breakfast, a talk by James Lucas of the Herman Miller Furniture Company and a tour of the feature exhibit of contemporary furniture at the Fine Arts Gallery, University of Kentucky. There has been splendid cooperation with ten contemporary furniture firms, who have contributed a select few of their very best and most recent pieces for exhibition. Also on the program will be a panel discussion with the speakers of the conference as members.

At the luncheon meeting Saturday noon, Samuel T. Hurst, Dean of the College of Architecture and Applied Arts, Auburn University will summarize the conference proceedings.

During the business meeting the ladies will be entertained with a Coffee, tours of the local points of interest and a luncheon at Carnahan House, the University of Kentucky's famous Guest House situated among the bluegrass horse farms.

Lexington's many points of interest include the world-famous horse farms and areas of historical significance such as the campus of Transylvania College, the first college west of the Allegheny Mountains, which was established in Lexington, while Cincinnati was still a tent colony on the

banks of the Ohio River. Also worthwhile is Ashland, home of Henry Clay, Gratz Park and the John Hunt Morgan House, one of the landmarks of Kentucky's tumultuous and confused participation in the Civil War; especially pertinent now in view of the beginning of the National Centennial Civil War Observation. Of additional interest is the pioneer fort reconstruction of Old Fort Harrod at nearby Harrodsburg and the quaint Shakertown area.

Tours of the horse farms, and Shakertown, a utopian religious community started around 1814 are being organized and will be held on Saturday afternoon if pre-conference response is great enough.

1961 A.I.A. REGIONAL CONFERENCE PROGRAM
The schedule of activities includes the following:

Afternoon

Thursday, February 9

Registration opens at Phoenix Hotel, Mezzanine 1 p.m.

Pre-conference Meeting of Chapter Presidents and National Committeemen of Great Lakes Region — Linn Smith, presiding.

Student Officers meeting at the University of Kentucky Architectural school.

Evening

Hospitality Night — individual delegates and wives entertained at dinner at homes of local architects.

Student Activities — to be announced.

(Continued on Page 11)

Sign of Service



GEO. P. LITTLE CO.
ACOUSTICAL CONTRACTORS
BUILDING SPECIALTIES

8551 Brookpark Rd.
CLEVELAND 29, OHIO
SHadyside 9-4555

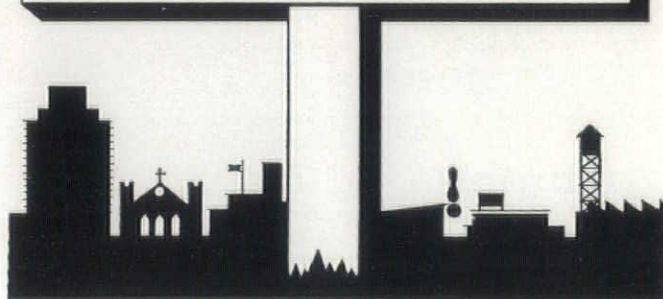
1313 Edgehill Rd.
COLUMBUS 12, OHIO
AXminster 1-5323

509 South St. Clair
TOLEDO 4, OHIO
CHerry 4-2071

1018 Pennsylvania Ave.
PITTSBURGH 33, PA.
CEdar 1-8717

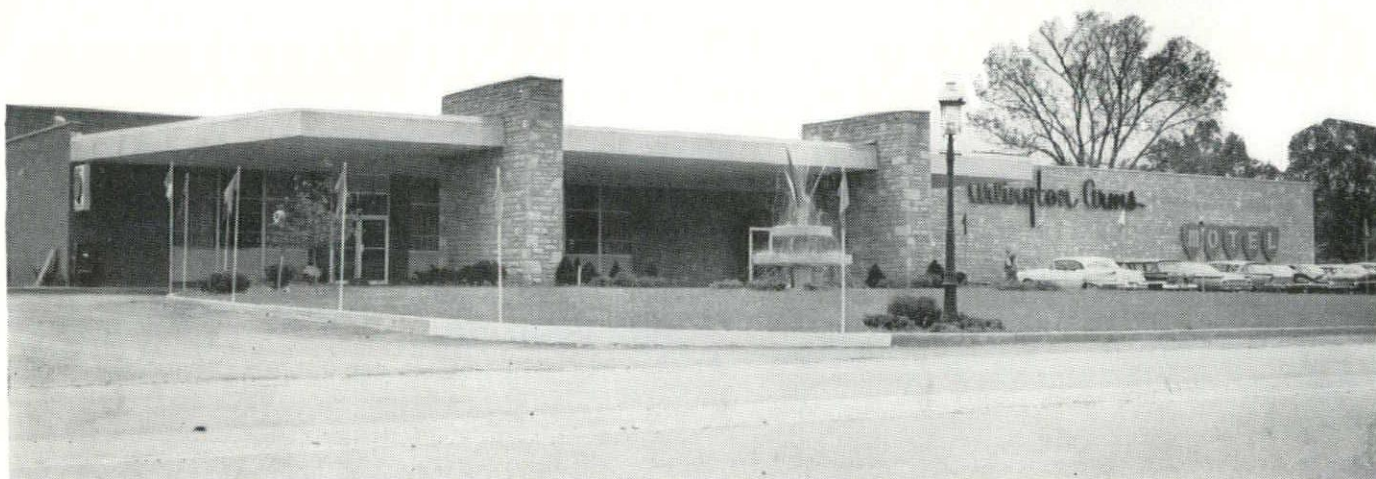
683 East Exchange St.
AKRON 6, OHIO
FRanklin 6-8119

202 Schween-Wagner Bldg.
YOUNGSTOWN, OHIO
Riverside 3-7455



"Gas Air Conditioning Permits Year 'Round Use of Gas Boilers"...

at Arlington Arms Motel
1335 Dublin Road, Columbus

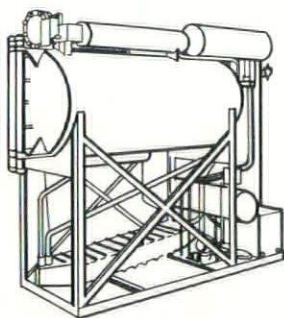


Gas Absorption Cooling — three 25-ton Arkla-Servel units — is only part of the array of Gas Equipment chosen by Glenn W. Buchanan, consulting architect. He also specified Automatic Gas Water Heating and Gas Cooking for this modern 100-room motel and restaurant, owned by The Big Hill Investment Company.

The choice was a "natural," says William D.

Apple, President of Encrete, Inc., the general contractors. "Gas Air Conditioning permits practical, year 'round use of the Gas heating boilers.

"Noiseless, vibration-free operation of the Gas absorption unit is important in an installation such as this. And, naturally, our client appreciates the economy of Gas as a fuel, both for air conditioning and heating."



Check these advantages of the Arkla-Servel Chiller

- ★ Compact, "package" unit. Easy to install. Light enough for rooftop installation.
- ★ Economical to install, operate and maintain. No specially trained operating or maintenance personnel necessary.
- ★ Installs singly or in parallel to fit any size installation.

Automatic Gas Absorption Cooling is being used by an increasing variety of businesses and institutions today. For specific information concerning large volume Gas Cooling and Heating, contact the Industrial Engineers at your Gas Company Office.



THE OHIO FUEL GAS COMPANY

OHIO ARCHITECT

GREAT LAKES REGIONAL CONFERENCE (continued)

Morning

Friday, February 10

Registration opens at Phoenix Hotel Mezzanine 9 a.m.

Business Meeting at Phoenix Hotel Ballroom at 9:30 a.m.; Linn Smith presiding.

Student AIA Workshop at 9:30 a.m. University of Kentucky Architectural School.

Coffee for Ladies, 10 a.m. Phoenix Hotel, sightseeing, shopping.

Noon

Dutch Treat Bar and luncheon for delegates at Phoenix Hotel, President Phil Will will address the group.

Ladies Lunch at Carnahan House.

Afternoon

Meeting at 2 p.m. Phoenix Ballroom for delegates, wives, and students. Speakers will be Walter Netsche, Partner-in-charge Skidmore, Owings and Merrill Chicago office and Arthur Kraft, sculptor of Kansas City, Missouri.

6 P.M.

Cocktail Party at Phoenix Hotel.

7:30 P.M.

Banquet at Phoenix Hotel. (Dress optional) Speaker will be Alexander S. Cochran, Architect, Baltimore, Maryland.

Morning

Saturday, February 11

Regional and National Committee meetings will be held at a buffet breakfast.

Special Tour of contemporary furniture Exhibit will be held at the Fine Arts Gallery of the Fine Arts Building, University of Kentucky campus. Coffee will be served. Busses for the tour will leave the Phoenix Hotel immediately after breakfast committee meetings.

Meeting at Guignol Theater, Fine Arts Building, University of Kentucky at 9:30 a.m.

Speaker will be: James Lucas of Herman Miller Furniture Company.

Panel Discussion at Guignol Theater, at 10:30 a.m. including Walter Netsche, Arthur Kraft and Mr. Lucas.

Noon — Closing Session

Luncheon meeting at Phoenix Hotel 12:30 p.m. Speaker to be Samuel T. Hurst, Dean College of Architecture and Applied Arts, Auburn University, who will summarize the conference proceedings.

Afternoon

Horse Farm Tour*

Historic Tour*

*Tours contingent on advance registration.



MONO-KOTE
*applies direct to steel...
fast, firm, fool-proof!*



- Direct application saves slow, costly preparation. Scaffolding and application time are slashed, other trades can follow up fast.
- Applied right on steel, MONO-KOTE leaves maximum space for mechanical installations, saves up to 7-inches per story in height.
- Hard, firm monolithic surface has high resistance to fissuring and cracking, withstands severe temperature and humidity changes.

Complete data on new Zonolite Mono-Kote, including Underwriters' Laboratories fire test information, is yours for the asking. Phone your Zonolite Sales Office, or write Zonolite Company today.

ZONOLITE COMPANY

135 S. LaSalle Street, Chicago 3, Illinois

Cleveland Architects Honor Country Church

The Cleveland chapter of the American Institute of Architects met recently to honor a simple country church built 126 years ago.

The white frame church, a mixture of Greek and Gothic revival styles, was restored in a six-year project by the Ashtabula Historical Society.

The society, which completed the restoration during the past year, became the first recipient of an annual AIA award for the preserver of worthwhile buildings in the Northeast Ohio area.

The Ashtabula church was selected by the AIA preservation committee which works to catalogue and preserve such buildings.

The committee calls its work "Project Noteworthy," an attempt to save significant buildings in this area from either destruction or ruthless remodeling.

"Such buildings are of value to a community both historically and culturally," explained Robert Gaede of the AIA.

"Buildings, if they are authentically preserved, offer a link to the past and acquaint us with the history of a community.

"Also, a careful selection of buildings representing many architectural periods is important esthetically," said Gaede.

"Another goal is to create public pride in fine buildings of the past so that no one will tear these down indiscriminately and without public knowledge."

The church, owned by the Episcopal Church, has been leased to the society for use as a museum. Services are occasionally offered there.

Legislative Notebook

The Regular Session of Ohio's General Assembly kicked off early in January and to date, twenty Bills have been introduced in the Senate and sixty-three Bills in the House. Only several of these proposed measures are of importance — most dealing with items that do not directly concern the construction industry or the profession of architecture.

However—before January is over we expect that we will be deeply involved in some legislative proposals that will affect us.

We know of several Bills to be introduced that will affect the Board of Building Standards and the appropriate ASO Committee is studying the objectives of these Bills.

Also, after many, many months of

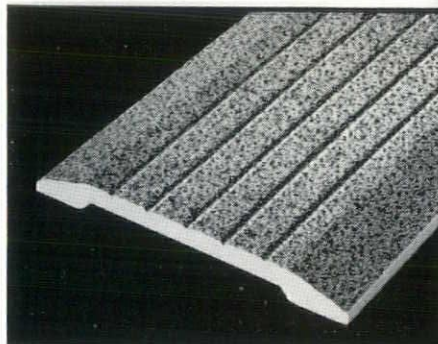
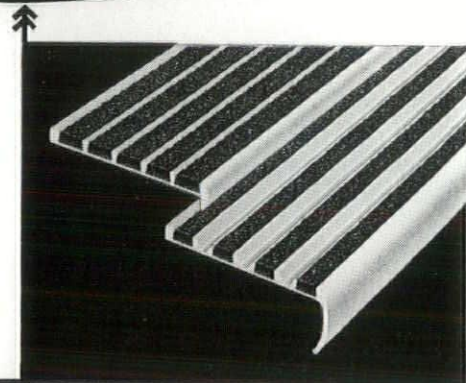
study, the State Board of Examiners of Architects plans to propose some major and vital amendments to Ohio's Architects Registration Law. Details on this will follow in a future issue.

The Society's Legislative Committee, under the Chairmanship of John Macelwane, Toledo, and the Executive Director's office will periodically report on legislative matters.



Aluminum Super-Grit, Safe-Groove Treads

Modern architectural design safety treads in a large variety of widths and nosing types. Abrasive grit ribs assure positive anti-slip protection. Aluminum base provides long life service under all traffic conditions.



Abrasive Cast Safety Treads

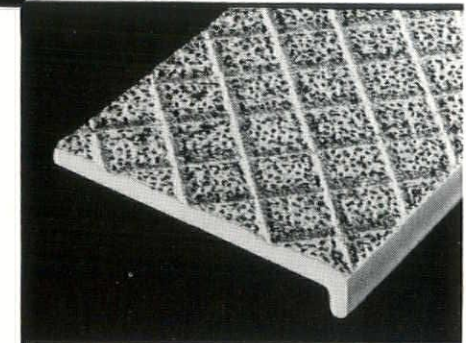
Metal castings in iron, aluminum or bronze with aluminum oxide imbedded grains are made to order to meet all architectural specifications. Wide range of uses include stair nosings, steps, floor plates, expansion joint covers, etc.

STOCK TREADS, 3" and 4" widths —lengths from 2' 0" to 5' 6".

Wire and phone orders filled immediately.

Abrasive Cast Thresholds

Offering a large variety in standard or special patterns to provide complete flexibility and meet all requirements for door openings. Available in ferrogrit, alumogrit, bronzogrit or nicklogrit.



See our catalog in Sweets or write for copy.

WOOSTER PRODUCTS INC.

Phone ANGelus 2-8065

Spruce St., WOOSTER, OHIO

OHIO ARCHITECT

OBITUARIES

The two following memorial tributes were prepared and submitted for publication by members of the Eastern Ohio Chapter of the American Institute of Architects. The officers, members and staff of the Architects Society of Ohio extend sympathy to the families of all architects who are listed on this obituary page.

Two Master Builders, members of the Eastern Ohio Chapter, AIA, died in December, Donald Lloyd Bostwick of Youngstown on Dec. 30 and Charles F. Steiner Jr. of Warren, on Dec. 12. Both were past presidents of the Chapter and both were active in advancing the practice of architecture. Both had the facility to transform human needs into useful and beautiful structures while giving faithful service to their clients and to the public. With peculiar skill and imagination they converted men's dreams into actuality. Their memorials are all about us.

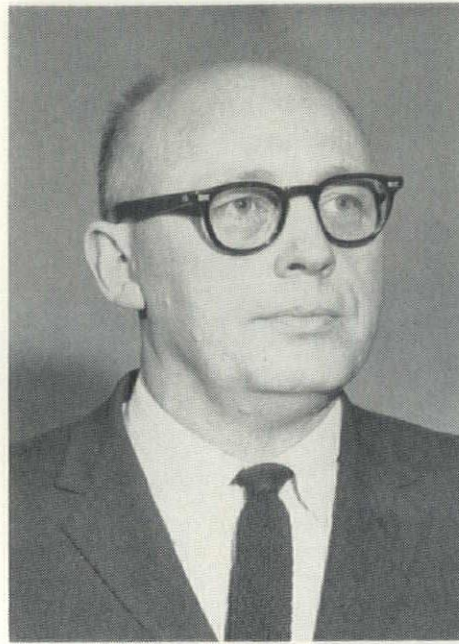
Donald Lloyd Bostwick

Art and science were happily wedded in the structures designed by Donald Lloyd Bostwick just as they were in his philosophy and his life. For architectural problems he sought practical yet beautiful solutions for he believed that buildings without beauty could not qualify as architecture.

The *Niles Daily Times* editorialized "Energetic and filled with ideas, Mr. Bostwick . . . built his own success like his buildings — from the ground up . . . Death at the age of 44 cut into a career which had already helped to shape the architectural thinking of the Mahoning Valley".

Mr. Bostwick's interest in the growth of the valley was reflected in his advocacy of the use of steel in structures for durability, adaptability and beauty as an incentive to the increased production of this steel manufacturing area. His award winning design for the Niles United Presbyterian Church mirrored this and won for him, membership in the Church Architectural Guild of America.

Beginning private practice in 1946, he headed the firm of Donald Lloyd Bostwick & Associates in Niles. He designed many churches, schools, medical



Donald Lloyd Bostwick

centers and commercial buildings. He was architect for the Kirkmere Development, a successful cooperative home building venture by returning veterans. His design for the Ohio State Bureau of Unemployment Compensation building in Youngstown is being used as a model for other bureau buildings in Ohio.



Bureau of Unemployment Compensation Building, Youngstown, Ohio

Photo credit — R. Marvin Wilson

Besides serving as president of the Eastern Ohio Chapter AIA, he had been its secretary, a director of the Architects Society of Ohio and of the Youngstown Area Architects. He was president of the Concrete Construction Council of the Mahoning Valley and a member of the National Society of Professional Engineers.

In addition he was a member of the Niles Rotary Club (past president), Youngstown Club, Poland Swimming Club, Mahoning Valley Historical Society and the Masons. He was an elder

of the Niles Presbyterian Church and had served on the board of the Fresh Air Camp. He had been associate professor of Engineering Youngstown University prior to being commissioned in the Navy in World War II. He was attached to the Naval Air Experimental Station as superintendent of Aeronautical Materials Laboratory Shop and as consultant to the Director of Long Range Planning. He was registered as an architect in both Pennsylvania and Ohio and as an engineer in Ohio. He was a graduate of the University of Michigan and did postgraduate work at the University of Illinois.

He leaves his wife, Eleanor; a daughter, Barbara who has been admitted to the University School of Architecture and Design and four sons, Donald Lloyd II, Kirk, Charles and Richard.

Charles F. Steiner, Jr.

The architectural work of Charles F. Steiner of the firm of O'Brien and Steiner, was marked by meticulous design and attention to detail. In the eastern Ohio area, he pioneered in the use of curtain wall construction for schools and industrial structures.

A resident of Warren for the past 13 years, Mr. Steiner was active in planning for a better community. Much of his own work was for such governmental agencies as Housing Authorities in Meadville, Pa., and in Warren, for schools and for Hospitals and for the U. S. Navy.



Trumbull Memorial Hospital, Warren, Ohio

Photo credit — Carl A. Udall

His planning and design for the industrial training shop of Warren's Harding High School has attracted the attention of architects from a wide area. Busy as he was, Mr. Steiner was a source of encouragement to struggling

(Continued on Page 14)

**QUALITY
FLUORESCENT LIGHTING
FIXTURES**

for

**SCHOOLS
OFFICES
STORES
FACTORIES**

**LOUISVILLE
LAMP CO., INC.**

LOUISVILLE 3, KENTUCKY

FOR QUICK SERVICE

CALL JU 7-6094

OHIO REPRESENTATIVE

THE H. H. HOMAN CO.

JOHN G. LEWE

H. H. (SANDY) HOMAN

MARIEMONT CENTER BLDG.

ROOM 102

CINCINNATI 27, OHIO

Phone BRomble 1-5502

Elevators

Electric Freight

Electric Passenger

Oil Hydraulic Passenger

Oil Hydraulic Freight

Dumb Waiters

Electric

Oil Hydraulic

Ash Hoists

Hand Power

Oil Hydraulic

Residence Elevators

Electric

Oil Hydraulic

**CAPITAL ELEVATOR &
MFG. CO.**

**424 W. Town St., Columbus
Capital 4-2437**

OBITUARIES (continued)

young architects and gave to many generously of his time.

A graduate of Carnegie Institute of Technology, he was head of the engineering Department of Rust Engineering Co. in Pittsburgh prior to moving to Warren. He was a Mason, a Shriner, and a member of the Elks, Warren Exchange Club, St. Paul's Lutheran Church, where he served on the Council, and the Pittsburgh Architectural Club.

Mr. Steiner was registered both in Ohio and Pennsylvania.

He leaves his wife, Helen; a daughter, Mrs. Carl Fink of Erie, Pa., three sons, William of Kent, Charles II and James of Warren and three grandchildren.

C. BERT R. BITTER, 86, of 2823 Alisdale Dr., an architect 57 years, died recently in the Lucas County Home for the Aged.

From 1900 to 1920 Mr. Bitter was associated with a number of Toledo architectural firms and did detail work on downtown buildings and Old West End homes being constructed during that era. He was a life-long Toledo resident.

For a time, he operated Bitter & Merkle, an architectural and engineering firm, and later joined the Toledo Board of Education as a designer. He was with the board 20 years, leaving about 1940.

He joined Giffels & Vallet, Detroit architects, in 1941 and worked for them until his retirement. During these years he worked in connection with building housing accommodations for workmen constructing the Alaska Highway.

Mr. Bitter designed the Chapel of the Transfiguration at St. Paul's Episcopal Church during the 1920's. He was a senior warden at the church for several years.

He was an honorary associate member of Toledo Chapter, American Institute of Architects, a member of St. Andrew's Episcopal Church and a member of the Republican Club.

Architect ROBERT D. RUSH, 49, of Columbus, died recently in White Cross Hospital. He was registered as an architect in Ohio and was associated with the G. W. Atkinson Company, contractors, in a supervisory and administrative capacity. Formerly he had been with Elford & Son, Inc. in a similar position.

Mr. Rush was a past president of the Builders Exchange, a member of the American Institute of Architects, Pi Kappa Alpha Fraternity, the North Columbus Civitan Club, University Club, Maple Grove Methodist Church, and was a graduate of Ohio State University.

Surviving are his wife, Harriet M.; one son, Robert D. Rush Jr.; two daughters, Leslie and Connie; his mother, Mrs. L. E. Rush, Delaware, O.; one brother, Ralph, Los Angeles, and two sisters, Mrs. John R. Alley, Greenville, and Mrs. W. R. Boyd, Cleveland.

HERMAN J. ALBRECHT, AIA, a practicing architect for more than a quarter century, died January 9, 1961 in his home, 1192 West Clifton Boulevard, Lakewood. He was 75.

Mr. Albrecht was a graduate of the school of architecture of Ohio State University in the class of 1907. He came here from his native Massillon in 1915 and organized the firm of Albrecht, Wilhelm & Kelly. Mr. Kelly later withdrew from the partnership but the firm maintained offices here and in Massillon. Mr. Wilhelm died some years ago and Mr. Albrecht closed the Cleveland office in 1930 and had his headquarters in Massillon until last August.

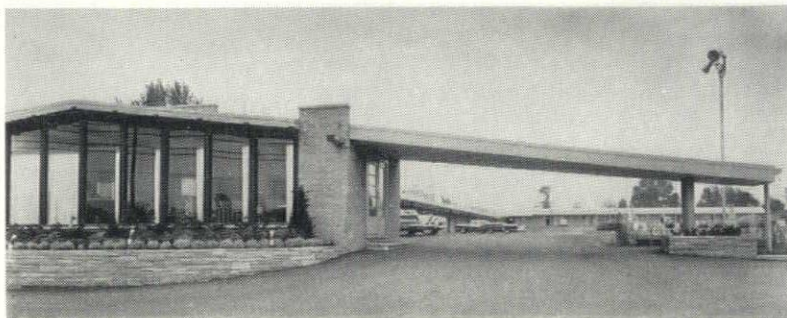
Mr. Albrecht was active in the OSU Alumni Association here and in Massillon. He was a member of the Masonic Order in Massillon and of the Rotary Club there. He long was active in the Cleveland Chapter of the American Institute of Architects.

Surviving him are his wife, Lillian; and a son, Robert.

Three reasons why ELECTRIC HEAT is best for commercial buildings



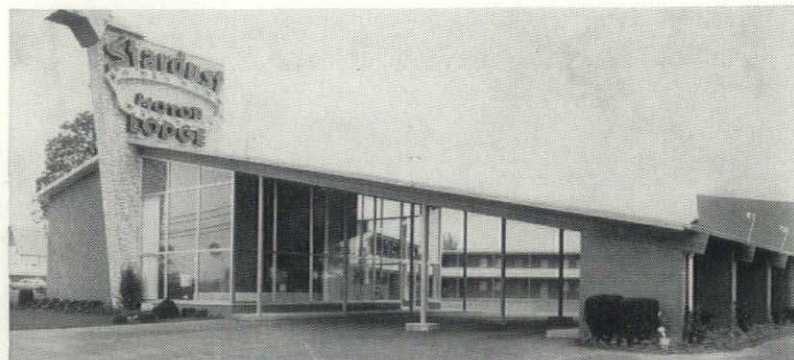
"It's Clean," says James Quinn, whose electric baseboard system inconspicuously handles over 10,000 square feet of plush dining, lounge and dance facilities at Quinn's Restaurant—Route 43, Solon, Ohio. Cleanliness of electric heat keeps draperies and furnishings looking new. System operates maintenance-free.



"It's Convenient," says Harry Shaker, owner-operator of the new Riviera Motel—Route 42, Strongsville, Ohio. Heat in any of 40 suites is turned on from switch panel conveniently located at reception desk. By elimination of flues and ducts, electric heat saved about \$8000 in initial construction costs.



"It's Comfortable," observes Mrs. E. J. Hoeffler, who, with her husband, owns and operates the beautiful Stardust Motor Lodge—Route 42, Strongsville, Ohio. With individual thermostats and switches in each of 42 suites, guests regulate their own comfort the year around.



In the next building you design, give your client a choice. Tell him how electric heat can save thousands of dollars on construction costs—and how he'll enjoy convenience, cleanliness and comfort ever after.

If you'd like more information on design of electric heating installations, call The Illuminating

Company—CHerry 1-4200. Ask for Commercial Sales. There's no cost or obligation.

The Illuminating Company
ALWAYS AT YOUR SERVICE IN THE BEST LOCATION IN THE NATION

New Columbus Chapter Officers



Members of Columbus Chapter, American Institute of Architects, elected John M. Seidel, seated right, as President during the annual dinner meeting this December in University Club. Also pictured are Secretary Robert H. Myers, seated left, and standing, left to right, Treasurer Robert Earl Cassell, Vice-President Richard Henry Eiselt, and director Dan A. Carmichael, Jr.

AIA CONVENTION PROGRAM SET

"Re-designing Urban America" is the theme of the 1961 annual convention of The American Institute of Architects which will be held in Philadelphia, April 24 to 28 and is expected to attract some 2,000 architects from all over the country.

Keynote speaker will be John Kenneth Galbraith, Harvard economist and author of "The Affluent Society" and "The Liberal Hour." Mr. Galbraith will start the discussions on Tuesday, April 25, with an outline of the imperative economic need to revitalize our cities.

On Wednesday morning, April 26, Lewis Mumford and Bruno Zevi will discuss the aesthetic, cultural and sociological aspects of the city. Mumford, a philosopher and critic, is the author of many books on cultural and architectural subjects, including "Sticks and Stones" and "The Culture of the City." Zevi, architectural historian of the University of Rome, Italy, will come to Philadelphia specially for this occasion.

Edmund Bacon, executive director of the Philadelphia Planning Commission, will head a comprehensive presentation on "Re-designing Downtown Philadelphia. Joining him will be Willo von Moltke, Roy Larson, FAIA, Oskar Stonorov, FAIA, Vincent Kling, FAIA, Robert Geddes, and I. M. Pei. Each of these architects will demonstrate his extension of the design structure of the Philadelphia plan.

Planners, municipal officials, engineers, landscape architects and members of the other design professions con-

cerned with urban design and redevelopment will be invited to attend the convention.

In addition to the professional program, the convention features a special concert by the Philadelphia Symphony Orchestra under the baton of Eugene Ormandy, a number of special exhibits, and social events, and over 90 exhibitors of the Producers' Council.

As in other years there will be an awards luncheon in honor of the recipients of AIA's Honor Awards and Gold Medals; a President's Reception; and the traditional Investiture of Fellows of The American Institute of Architects.

Chairman of the Philadelphia AIA Host Chapter Committee, which is busy with convention preparations, is Beryl Price, assisted by Paul C. Harbeson, Harry W. Peschel, Charles E. Peterson, and Herbert H. Swinburne, all Philadelphia architects.

New Society Officers



Several of the new ASO officers stopped to pose for the camera at a recent meeting. Left to right are Orville H. Bauer, Second Vice-President, Toledo; Howard B. Cain, First Vice-President, Cleveland; Gilbert Coddington, President, Columbus; Joseph Tuchman, Third Vice-President, Akron; and William Bogart, Treasurer, Cincinnati. Robert W. Lecklider, Secretary, Dayton, is not shown.

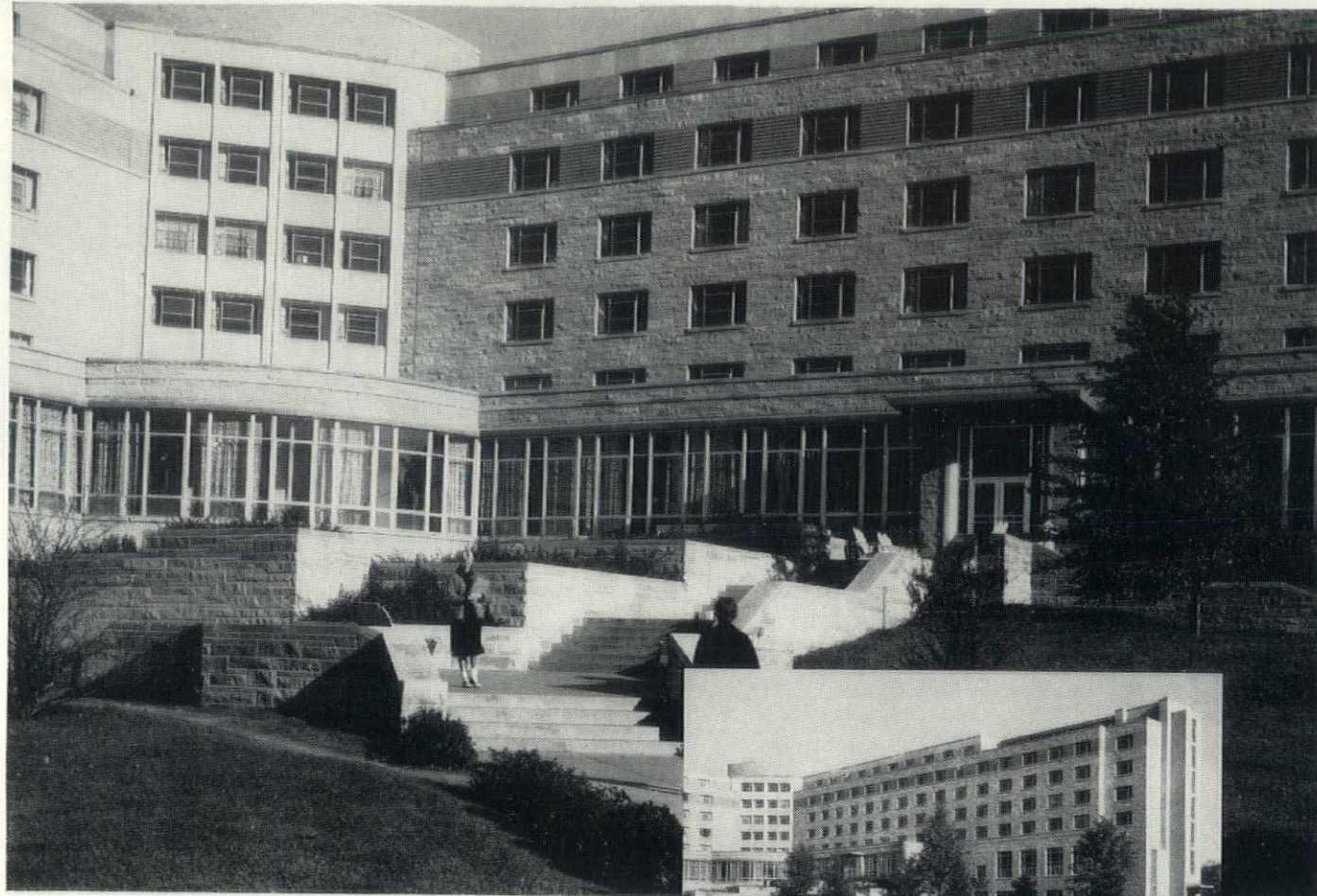
NORMAN BRICK

For beauty and economy

The
CLEVELAND BUILDERS SUPPLY
Co.

1276 West 3rd Street • Cleveland 13, Ohio • MAin 1-4300

Your dependable source for fire-safe building materials.



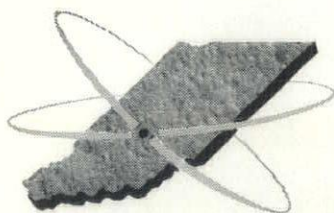
INDIANA LIMESTONE

lends ageless character to contemporary design

SMITHWOOD HALL, INDIANA UNIVERSITY • EGGERS & HIGGINS,
SUPERVISING ARCHITECTS, NEW YORK, N.Y. • EDWARD D. JAMES,
INDIANA ARCHITECT, INDIANAPOLIS, INDIANA

When you work with random ashlar applications, it pays to consider the versatility and compatibility of Indiana Limestone Veneer. Blending easily with modern materials, it gives impressive dignity to institutional, commercial, industrial and residential construction.

It is available in a variety of finishes and is used with Indiana Limestone trim that is accurately cut to precise specifications.



For free copy of illustrated Indiana Limestone A.I.A. file 8-B-2 mail coupon today.

INDIANA LIMESTONE COMPANY, INC.

Dept. OA-1, BEDFORD, INDIANA

NAME _____

FIRM NAME _____

ADDRESS _____

CITY & ZONE _____

STATE _____

Architects Board Seeks Executive Secretary

The Board of Examiners of Architects in the State of Ohio are considering applicants for the office of Executive Secretary of the Examining Board due to the forthcoming retirement of the present Executive Secretary.

Anyone interested kindly send their qualifications and direct their inquiries to a member of the Board of Examiners of Architects in Ohio, Mr. George F. Schatz, 309 Ludlow Avenue, Cincinnati 20, Ohio.

LOF Manufacturing Twin—Ground Grey Transparent Mirror

For architectural applications calling for the use of transparent mirrors where there is little difference in light intensity between the two areas involved, Libbey-Owens-Ford Glass Co. has developed a new product known as Parallel-O-Grey Mirropane.

As in regular Plate Mirropane Parallel-O-Grey Mirropane consists of a special chrome alloy, thin enough to be transparent, applied to the special twin-ground grey glass by thermal evaporation.

When viewed from one side Mirropane appears as a mirror, but is transparent from the opposite side, depending on the relative strength of the light in the two areas it separates.

For positive effectiveness, Mirropane on regular Plate Glass requires a ten-to-one light differential ratio, but in most cases will work satisfactorily with a five-to-one ratio.

With the new Parallel-O-Grey Mirropane, however, positive effectiveness is obtained with a much lower four-to-one light ratio, and will work satisfactorily with a two-to-one ratio.

Parallel-O-Grey Mirropane is available in 1/4 inch thickness and in any size up to a maximum of 70 by 84 inches. Glazing procedure is the same as followed with regular Plate Mirropane.

To Design A.I.A. House For Cleveland Home Show

Cleveland architect Russell R. Peck, will design the A.I.A. house to be featured in the 1961 Cleveland Home and Flower Show at Cleveland Public Hall, March 4 through March 12.

Peck was selected for this honor by the Home and Flower Show Committee of the Cleveland Chapter, American Institute of Architects. This show committee is made up of Cleveland A.I.A. member architects, each of whom designed an A.I.A. House for the annual Home and Flower Shows of the past. The committee includes: Robert C. Gaede, Chairman; Onnie Mankki, M. W. Cooper, Joseph A. Regner and Bascom Little.

The house to be designed by Peck will fit the trend for a "second home" now sweeping the country. It will be a place to have quiet, be alone for work or play, and on occasion entertain your friends. Properly located it will be a fishing or hunting lodge, a beach resort or just a retreat in the woods. The popularity of a home of this type in the 1960 show influenced the Show management to present another vacation home in this coming Show, in addition to a larger Show house that will be built in the Homeland Section.

Asked for a name for the place, Architect Peck said: "I call it 'GAFITA'. If you want to know what this means, it is 'get away from it all.' " The house in the 18th annual Cleveland Home and Flower Show will be moderate in cost, featuring a large living room sleeping accommodations for six persons or more and with a practical kitchen and bath.

Levow Snow Guards Illustrated in Catalog

David Levow, Inc. has announced an all new catalog with detailed information on pipe type snow guards for tile or slate roofs.

These snow guards are available in galvanized, aluminum or bronze. A wide variety of sizes are shown in many different styles.

Further information may be had by writing to David Levow, Inc., 77 Georgia St., South Hackensack, N. J.

Consulting Engineering Firm Reorganizes

The consulting engineering firm of Hixson-Tarter and Associates, 2306 Park Avenue, Cincinnati 6, Ohio, has been reorganized to include the services of a registered architect.

The name of the new firm will be Hixson, Tarter and Findlay, Architects and Engineers. Principals of the new partnership will be Lewis H. Hixson, Eugene Tarter and John S. Findlay. Mr. Findlay is a corporate member of the Cincinnati Chapter, AIA and the ASO.



John S. Findlay

The original partnership between Hixson and Tarter was organized in 1948. Since that time they have engaged in a broad practice of engineering and structural design. Their practice includes work on educational buildings, churches, hospitals, industrial and commercial structures.

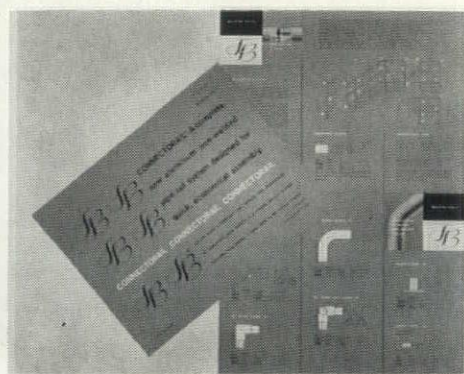
With the reorganization and the addition of John S. Findlay to the partnership, the new firm will offer both engineering and architectural services.

Mr. Findlay was graduated from the University of Cincinnati in 1936 with the degree of B.S. in Architecture. His experience includes industrial and architectural work, military construction as a civilian architect with the Chief of Engineers, U. S. Army, instructor in The Engineers School, Fort Belvoir, Va., and consultant to the Veterans Administration on hospital construction. He was also associated with two Cincinnati architectural firms.

Cleveland PC Elects Officers

Producers' Council of Cleveland recently elected officers for the coming year. Those elected are John E. Graff, president; George Chiviles, first vice president; Al Mortimer, second vice president; James Gilliland, secretary; and Leonard Holmes, treasurer.

BOOKLET DESCRIBES NEW SYSTEM



Connectorail Bulletin No. 0111, now available from Julius Blum & Co., describes and illustrates a complete new aluminum non-welded, flush-fitting pipe rail system designed for quick, economical assembly and for perfect color match when aluminized. Detail drawings, dimensions and assembly data are furnished for all components of the system, including pipe, connector sleeves, tees, elbows, flanges, brackets, and other fittings.

Also included is an angle fitting selector chart, which shows recommended angles for each tread-to-riser ratio, and angle tee templates for use in locating holes for joining angle tees of both 1 1/4 and 1 1/2 inch pipe. Keyed elevation drawings illustrate typical use of the various components. 6 pp., Julius Blum & Co., Inc., Carlstadt, New Jersey.

DAYTON ARCHITECT MOVES OFFICE

Architect James R. Slager recently announced the relocation of his architectural offices to 2843 Far Hills Avenue, Dayton 19, Ohio.

Mr. Slager is Secretary of the Dayton Chapter, AIA and is a member of the Architects Society of Ohio.

ON TOUR

Michael M. Kane, A.I.A., of Cleveland and Los Angeles, has been honored by receiving a Boursier de la Government Francais and is in France on a research and study mission. Since arriving in Paris he has also received recognition of his work by being given a Fulbright travel grant.

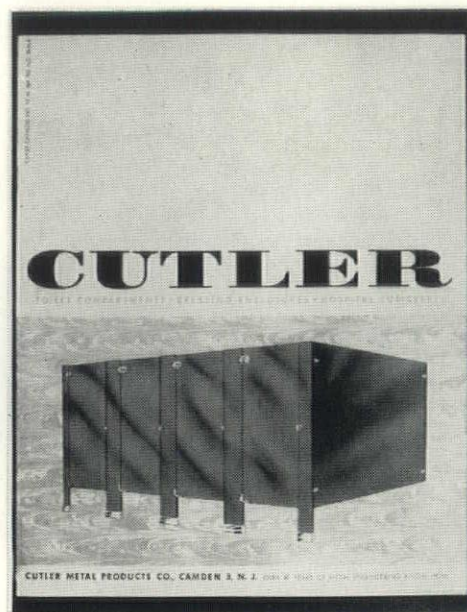
ADVERTISERS IN OHIO ARCHITECT

Capital Elevator & Mfg. Company	14
Cleveland Builders Supply Company (Louis C. Oswald & Associates)	16
Cleveland Electric Illuminating Company	15
Dur-O-Wal, Inc. (Roche, Richard, & Cleary, Inc.)	4
Fairfield Brick Company (Ted Witter Advertising Agency)	20
Richard P. Howard & Associates (Blaco Advertising Agency)	20
Indiana Limestone Company, Inc. (The L.W. Ramsey Advertising Agency)	17
Jennison Wright Corporation (Phillips-Thackeray Advertising)	2
George P. Little (Belden & Frenz & Lehman, Inc.)	9
Louisville Lamp Company	14
Ohio Fuel Gas Company	10
Wooster Products, Inc. (McDaniel Fisher & Spelman)	12
Zonolite Company (Fuller & Smith & Ross, Inc.)	11

NEW PCA BOOKLET DESCRIBES SHELLS

"Curvilinear Forms in Architecture" is the title of a new publication issued by the Portland Cement Association. It is a striking booklet of basic descriptive information on design and construction of shell roofs. Details are given on six outstanding American projects which illustrate the versatility of barrels, folded plates and hyperbolic paraboloids.

The new architectural booklet completes a packet of recent materials on shell roofs published by PCA. Others include design data for engineers, promotional pamphlets and two movies, one general and descriptive and one covering the forming and construction of shells. Requests for any of these materials should be directed to the Portland Cement Association, 50 W. Broad St., Columbus 15, Ohio.



TOILET COMPARTMENT CATALOG AVAILABLE FROM CUTLER METAL

A new 16-page, four-color catalog presenting its complete line of Toilet Compartments, Hospital Cubicles, Dressing Enclosures and Urinal Screens has been issued by Cutler Metal Products Co. of Camden, New Jersey. Illustrations, specifications and engineering details of The Cambridge ceiling-hung, The Fordham floor-braced, and The Overbrook overhead-braced compartments, as well as of its four models of Urinal Screens are included.

Copies of the catalog, No. TC-61, as well as of a new handy pocket-size Compartment Color Chart, are available upon request from Cutler Metal Products Co., Camden 3, New Jersey.

AWARD GOES TO FOUR IN ARCHITECT FIRM

A \$500 merit award to four in the architectural firm of Hays and Ruth was announced at this week's meeting of the Producers Council in the Cleveland Engineering and Scientific Center. Recipients were J. Byers Hays, H. David Howe, Harry J. Roberts and Joseph A. Poch.

The award came from the Mastic Tile Division of the Ruberoid Company in a competition based on flooring problems of a group of school buildings.

ARCHITECTS SOCIETY OF OHIO

FIVE EAST LONG STREET
COLUMBUS 15, OHIO

RETURN POSTAGE GUARANTEED

MR. G.E. PETTENGILL,
LIBRARIAN, AMERICAN
INSTITUTE OF ARCHITECTS
1735 N.Y. AVE., N.W.
WASHINGTON 6, D.C.

Accepted as controlled circulation
publication at Athens, Ohio.

Architectural Models and Renderings

Ask us for quotations on models constructed in plastic
and on renderings in tempera. Send plans with request.

Model of
Glenwood Elementary School, Toledo, O.
Architects:
Charles L. Barber and Associates

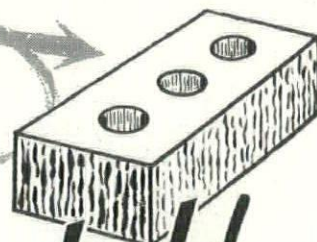


RICHARD P. HOWARD AND ASSOCIATES

7229 ORVIETO DRIVE • SYLVANIA, OHIO • PHONE: TURNER 2-6135

there's a "right place" for

**COLORFUL
TEXTURED
QUALITY**



Fairfield
BRICK

"everywhere on
some jobs . . . somewhere on every
job you design"

FAIRFIELD BRICK CO.

ZOARVILLE, OHIO

QUALIFIED DEALERS TO SERVE YOU

**RUSSELL S. FLING
& ASSOCIATES**

CONSULTING ENGINEERS

DESIGN — CONSULTING — REPORTS

REG. ENGINEERS — REG. ARCHITECT

101 N. HIGH

COLUMBUS 15, OHIO
CA. 4-7718

HERBERT A. ERF

Registered Engineer

CONSULTANT IN ACOUSTICS

3868 Carnegie Avenue
Cleveland 15, Ohio

Telephone
EXpress 1-1616

Air Conditioning - Heating - Ventilating
Plumbing

THEODORE REDNER
Mechanical Engineer

198 East Aurora Road
Northfield, Ohio

Tel: IM 7-5585

VARO ENGINEERS

ARTHUR VAJDA, P.E.

H. S. ROCKOFF, P.E.

D. W. MCCLINTOCK, P.E.

STRUCTURAL, ELECTRICAL, MATERIAL
HANDLING, PROCESSING, SURVEYING

1641-1649 BROADVIEW AVE. MEMORIAL BLDG.
COLUMBUS 12, O. NEWARK, O.

Hixson, Tarter and Associates

CONSULTING-STRUCTURAL ENGINEERS

2306 PARK AVENUE

CINCINNATI 6, OHIO

CAPITOL 1-1473

GORDON H. FROST & ASSOCIATES
CONSULTING MECHANICAL ENGINEERS

HEATING - VENTILATING
AIR CONDITIONING
PLUMBING - DRAINAGE

725 CHERRY ST.
TOLEDO 4, OHIO
TEL. CH 4-3401

REGISTERED
OHIO-MICHIGAN
INDIANA