

SEPTEMBER • 1953

Vol. XI

No. 9

OHIO ARCHITECT



Aerial view of YOUNGSTOWN, OHIO, locale of the A.S.O. 20th Annual Convention, October 14, 15, 16, 1953

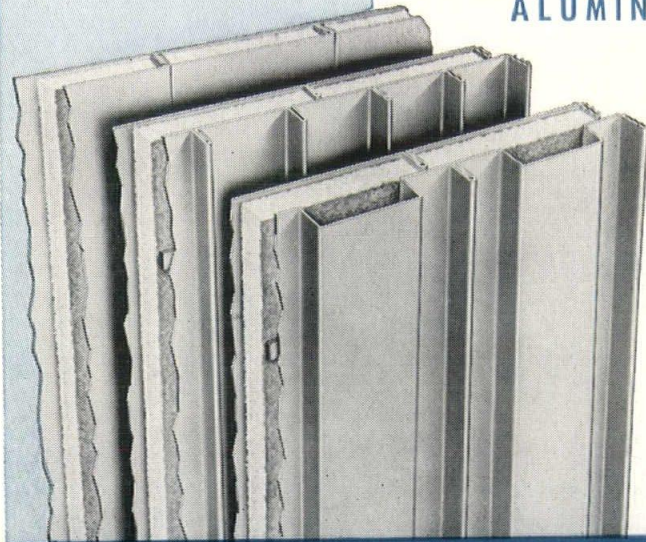
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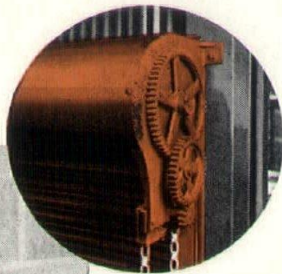


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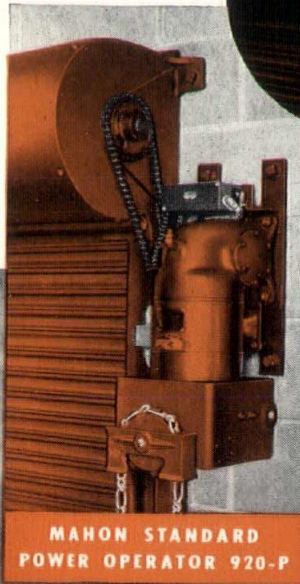
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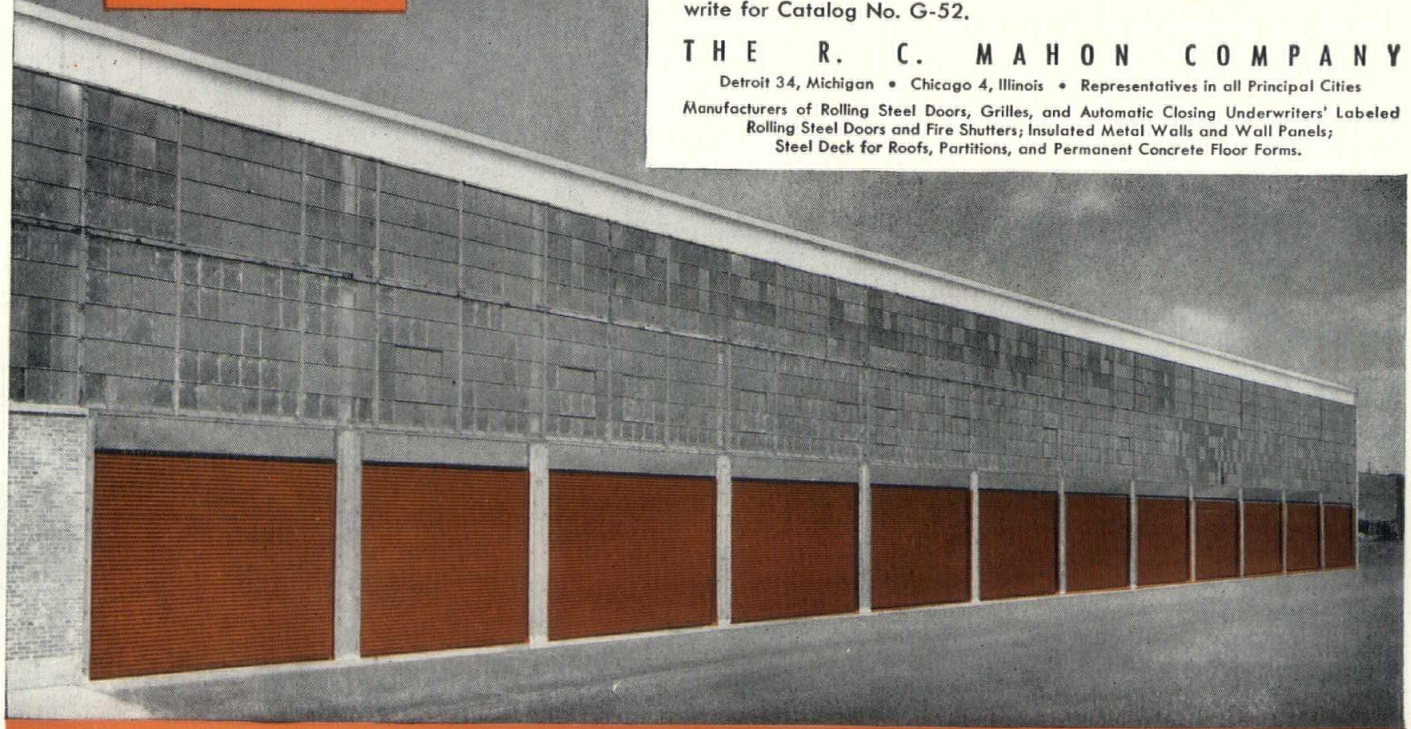
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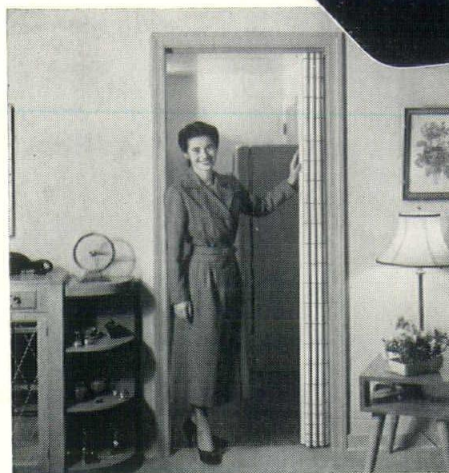
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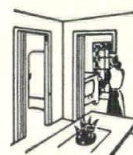
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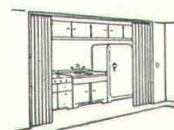
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The image shows a wire mesh window frame on the left, which is a simple rectangular frame with a grid pattern. To its right is a vintage advertisement for Bayley Steel Windows and Doors. The advertisement features a black and white photograph of a two-story house with a large tree in front. The text on the advertisement includes "ON MEN'S BELIEVES..." at the top, "Bayley" in large, bold letters, and "STEEL WINDOWS AND DOORS" below it. There is also a small circular logo in the bottom right corner of the advertisement.

The image shows a technical drawing of a window grid on the left, consisting of a 4x4 grid of squares with a larger square in the center. To the right is a photograph of a Bayley Cat-Back Window product. The product is a dark-colored window with a grid pattern. The text on the product includes "MR. MENDEL HOFFMAN" at the top, "The Bayley" in large letters, and "CAT-BACK WINDOW" below it. There is also a small inset photo showing a person using the window.

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EARLY ARCHITECTURE IN OHIO *A Sesquicentennial Review*

Part IV — The Cincinnati Chapter Area by JOHN W. HARGRAVE, A.I.A., Montgomery, Ohio

Southwestern Ohio's rich heritage of Architectural Americana came mostly down, or up, or across the Ohio River. For a century Cincinnati was the state's largest and wealthiest city, the hub of the valley, the gateway to the south and to the west. The influence of Virginia, of the officers of The Revolutionary War who took land in southern Ohio as pay for their services, of the stolid Germans who came to plant vineyards and built their German Gothic houses of brick and of stone, and the Scotch Presbyterians who came by way of New Jersey; all these merged in building the "Queen City of the West," so named by Henry Wadsworth Longfellow.

Upriver from Cincinnati is the quiet town of Manchester, Ohio, site of the oldest existing frame building in the area. Built by General Nathaniel Massie, commander of an army fort "Buckeye Station," the house was built from hand-sawn timbers and boards in 1797. Reflecting the salt-box construction of New England, it has been neglected for many years. Another house built in similar manner is the Rankin House at Ripley, a brick house, notable as the first

station on the "underground railroad" of abolition days. Through it passed hundreds of slaves escaping to Canada, not one of whom was recaptured. Today this house is a public shrine because of interest aroused by Harriet Ward Beecher's story of "Uncle Tom's Cabin."

The Eliza story has a factual basis. Eliza Harris, a slave from a Kentucky plantation four miles south of the Ohio, fled with her infant son across the frozen river to find refuge at Dr. Rankin's. Those who travel U. S. 52 in southern Ohio will enjoy the panoramic view from this house, and will be conscious that our forbears knew something about "site planning."

Probably the best preserved of southern Ohio's early buildings is the Taft Museum, shown on the page opposite. Attributed to the architect of our national capitol, Latrobe, and built in 1820 by the wealthy merchant, Martin Baum, it became the town house of three other notable Cincinnati families, the Longworths, the Sintons, and the Tafts. Some consider it to be the finest example of the Early Federal style. For more than a century it was the center of the

(Continued on page 65)

Pictures on Opposite Page

Top — TAFT MUSEUM, built in 1820, credited to Latrobe, architect of the U. S. Capitol. Located at the end of Fourth St. in downtown Cincinnati, this residence dominated the social life of the Queen City for more than a century. Today it is preserved as an endowed public monument, open daily to the public for the enjoyment of its priceless art collections and period furnishings. (Photo courtesy Taft Museum)

Center, Left — THE CHRISTIAN WALDSCHMIDT HOUSE, Camp Dennison, Ohio, built in 1804. Now restored by the D.A.R. and opened as a public shrine.

Center, Right — THE GOLDEN LAMB, Lebanon, Ohio, built in 1816. This building has been a hotel for 137 years, longest record of any hostelry in the state. The top story with its ugly fire escape was added at a much later date. (Library of Congress photo)

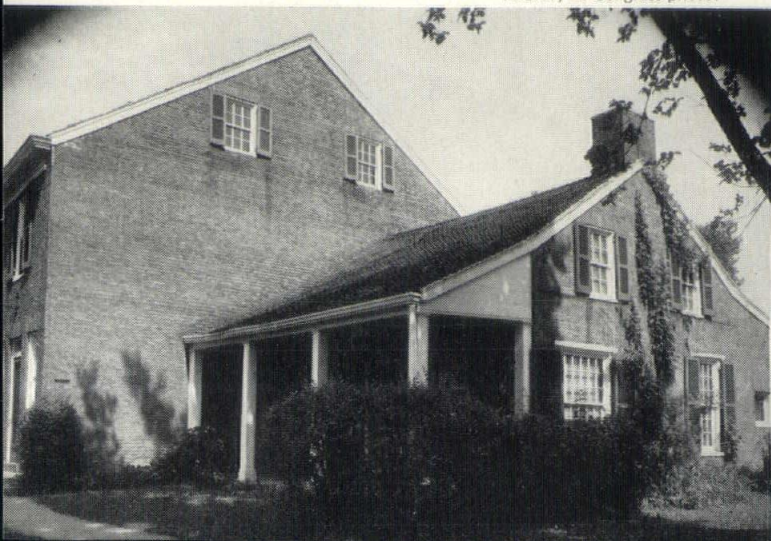
Bottom — THE CYRUS BROADWELL HOUSE, Mt. Carmel, Clermont County, Ohio, built in 1840. A two-story house on a high hill, surrounded by a veranda with Doric columns, this house was built largely from materials purchased in New Orleans and floated up the rivers to a landing near the site. It reflects the influence of the Georgian style as copied from the southern colonial plantations. (Library of Congress photo)

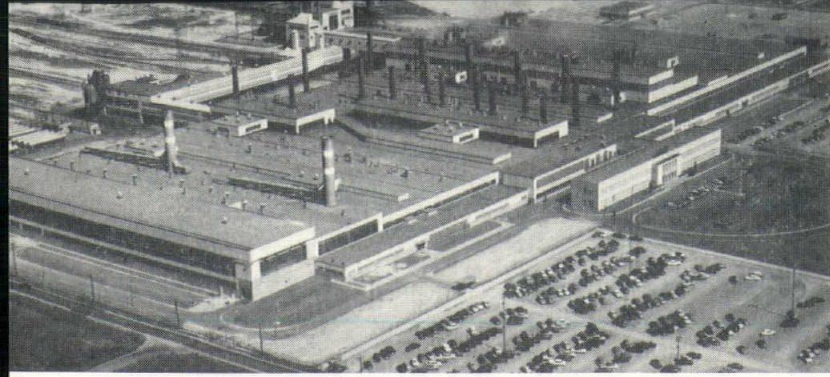
ELIPHALET FERRIS HOUSE, 3915 Plainfield Rd., Mariemont, Ohio, built in 1813. It is now the office of Taylor and Porter, Architects, who have faithfully preserved and restored much of the original interior.

(Library of Congress photo)

THE JOSEPH FEDRIS HOUSE, 5801 Wooster Pike, Mariemont, Ohio, built in 1826 on a prosperous 700-acre farm extending down to the flatlands of the Miami River valley. This farm has been notable as a source of Indian lore.

(Photo by Edwin L. Taylor)





★ Ford Motor Company's foundry on Brookpark Road receives a Medal in the large Factory Building classification.

Cleveland Chamber of Commerce Says These Are the Best

Following the Cleveland Chamber of Commerce precedent, of awarding medals for merit in building since 1916 in certain classes of construction, a committee on medal awards, serving under the Chamber's construction industries committee, was appointed to judge the buildings in five classifications completed in the Greater Cleveland area during the years 1951 and 1952. The classifications are apartment houses, factory buildings, retail commercial buildings, non-retail commercial buildings, and altered facades.

Lists of buildings in the five classes, completed during this period, were furnished by the building commissioners of the various municipalities in the county, recording the following buildings in these classifications: Factory Buildings 75, Retail Commercial Buildings 69, Non-retail Commercial Buildings 83, Apartment Houses 51, Altered Facades 13; making a total of 291 buildings eligible for consideration.

As heretofore the construction industries committee has preferred to recommend the building rather than the architect, engineer, owner or builder, since so many factors enter into the planning, financing and erection of a modern, well equipped structure.

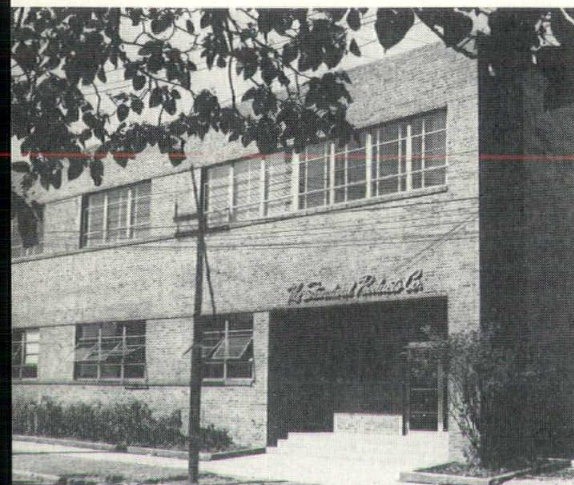
Awards, as in the past, will take the form of bronze plaques for the outstanding building in its classification. The committee also recommended awarding of certificates of honorable mention to buildings having a great deal of merit but not quite as outstanding as those receiving the bronze plaque.

Following the customary procedure, the organizations named here were asked to appoint representatives to serve on the medal award juries, thus forming what was believed to be a group truly representative of the community at large.

The committee gratefully acknowledges the cooperation of these organizations and of the individual members of the juries who gave so freely of their time and experience, and whose verdicts were so carefully considered to eliminate all possible bias:



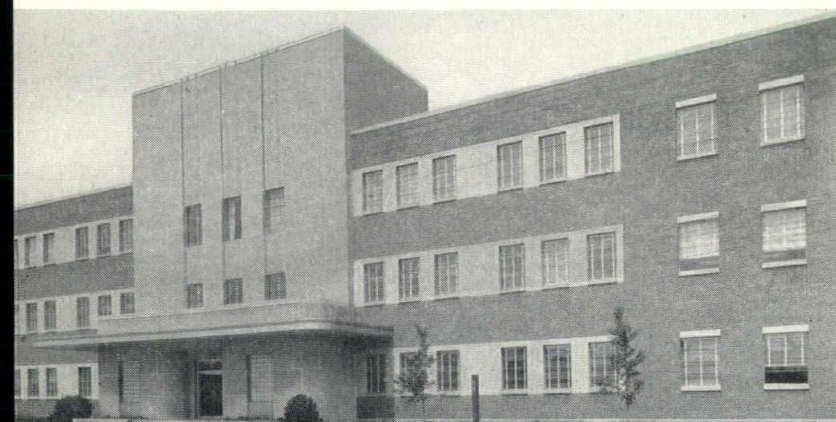
★ Lincoln Electric Company's ultra modern building, at left, was the jury's choice for Honorable Mention.



★ Standard Products Co. receives Honorable Mention as a smaller factory.



★ American Radiator Standard Sanitary Corporation receives Medal in Retail Commercial Building Class.



★ A Medal goes to White Sewing Machine Co.

Members

American Institute of Architects, Cleve. Chap.	9
Cleveland Builders Exchange	5
Cleveland Engineering Society	5
Cleveland Real Estate Board	2
Cleveland Chamber of Com.—Indus. Dept.	1
Home Builders Association of Cleveland	2
Retail Merchants Board	2
Women's City Club	1

Alexander C. Robinson, III, A.I.A. served as chairman of the subcommittee and the juries; William D. Guion, Building Commissioner of Cleveland, as vice chairman; Joseph M. Schultz, of the Chamber staff, as secretary.

Conditions governing the eligibility of the buildings were:

1. The classification of a building is determined from the official building records of the municipality in which the building is located, as defined by the building code of that municipality.

2. Buildings considered for the awards were those which were in the process of construction and were given final inspection during 1951 and 1952.

Buildings in these classes completed during the period under consideration were checked and jury members visited and reported upon them. This resulted in six buildings being selected as outstanding in their classes and deserving of consideration for awarding the bronze plaques, and four buildings having sufficient merit to be awarded certificates of honorable mention.

After careful consideration of the reports of the subcommittee and the juries, the construction industries committee unanimously recommended that the Chamber of Commerce premiate the following buildings in the manner set forth:

FACTORY BUILDINGS. The awarding of a medal to the large foundry building of the Ford Motor Company, located at Engle and Hummel Roads, in the Village of Brook Park. Albert Kahn & Associates designed the building.

The awarding of a certificate of honorable mention is recommended to the factory building of the Lincoln Electric Company at 22801 St. Clair Ave.

The awarding of a certificate of honorable mention is recommended to the Standard Products Company, located at 2160 Halstead Avenue, in Lakewood. Outcalt, Guenther & Associates were the architects.

RETAIL COMMERCIAL BUILDINGS. The awarding of a medal is recommended for the best retail building completed during 1952 to the American Radiator Standard Sanitary Corporation, located at 1825 Lakeside Avenue.

COMMERCIAL BUILDINGS, NON-RETAIL. A medal is recommended for the best non-retail building completed during this period to the White Sewing Machine Company, located at 11740 Berea Road.

A certificate of honorable mention was awarded to the building completed by the National Screw Machine Products Association, located at 2860 East 130 Street, designed by Milo S. Holdstein, architect.

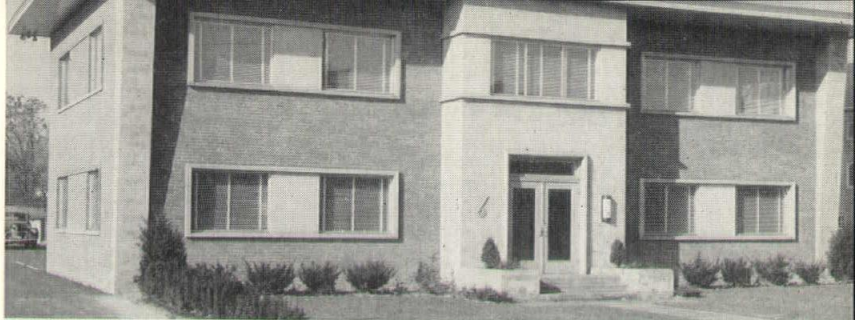
A certificate of honorable mention was awarded to the building completed by the Standard Tool Company, located at 3950 Chester Avenue. Dalton & Dalton & Associates were the architects.

APARTMENT HOUSES. A medal is recommended for the best large apartment building, Shaker Towers, to the Shaker Coventry Corporation, located at 13800 Shaker Blvd., designed by Joseph Ceruti, Architect.

A medal is recommended for the best small apartment building to James Holan, Sr., for his apartment located at 3705 Rocky River Drive. Burrows, Hinman & Gabriel were the architects.

ALTERED FACADES. The awarding of a medal is recommended for the best altered facade to the Edgewater Chevrolet, Inc., located at 5417 Detroit Avenue. Weinberg & Teare were the architects.

ARCHITECT



★ National Screw Machine Products Association is awarded Certificate of Honorable Mention for non-commercial retail building.

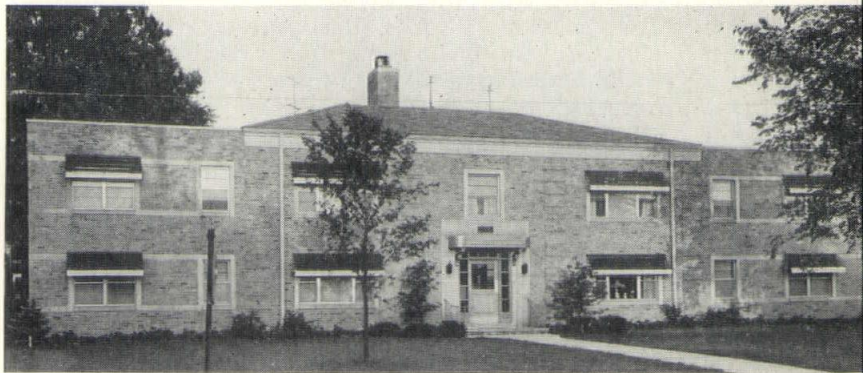


★ Standard Tool Company rates Honorable Mention for its Commercial Building, non-retail, on Chester Avenue.

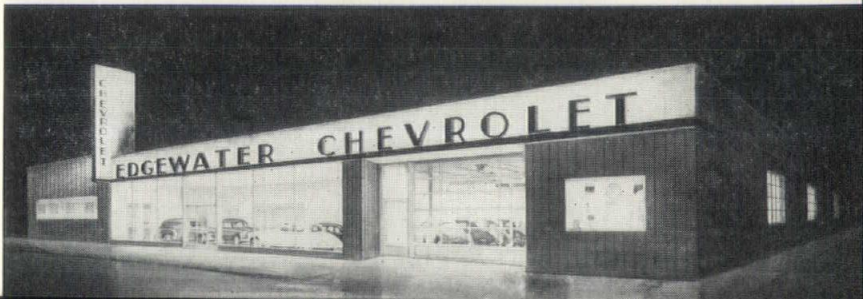
★ Shaker Towers rates the Medal in the Large Apartment House class.



★ A Medal for this Small Apartment.



★ A Medal for this altered facade.



EARLY OHIO ARCHITECTURE TO BE DISPLAYED AT STATE CONVENTION

Historically interesting stories in the last few issues of the Ohio Architect fortell a very popular feature of the coming state convention in Youngstown. These articles and pictures prepared by the different A.I.A. Chapters have been a preview of the exhibits to be submitted in chapter competition as the main feature of this year's meeting.

Giving recognition to the Sesqui-Centennial celebration of the State of Ohio, the Architects Society of Ohio has built its convention program around the historic architecture of the state. Each of the six A.I.A. chapters is preparing a display of the excellent early buildings in its district. Pictures and written descriptions will be presented to convention goers and chapters will vie for the prize to be awarded for the best presentation. Talbot Hamlin, nationally known architectural historian, who will speak at the Annual Banquet, will head the judges.

Joseph Morbito, chairman of the convention Sesqui-Centennial Architectural Exhibit Committee, says that a large area of the second floor of the Hotel Pick-Ohio will be given over to the showing of these exhibits. Two rooms as well as two sides of the lobby balcony have been assigned for this use.

Arthur R. Arend of Cincinnati, Ralph Kempton of Columbus, John Sullivan, Jr. of Dayton and Thaddeus B. Hurd of Toledo are chapter representatives in charge of preparing their entries. Morbito will handle Eastern Ohio's and Cleveland's appointment has not been decided yet.

The wealth of artistic and historic architecture in Ohio and the chapter presentation know-how guarantee a highly interesting and instructive main feature of the convention.

Assisting Chairman Morbito are: Frank F. Smith, Jr., Roberty Beatty, L. J. Motter and Edward H. Kraus of the Eastern Ohio Chapter.

SPECIAL CONVENTION INVITATIONS

In addition to A.S.O. members, invitations for the Society's convention in Youngstown on October 14, 15, 16 are being extended to three other groups.

All registered architects in the state are cordially invited to attend any of the sessions as well as view the exhibits at the Pick-Ohio Hotel. No registration fee will be charged these guests and individual events may be participated in merely by payment of the fee for each event. Tickets may be secured at the Registration desk.

On all three evenings of the convention, the Building Materials Exhibit and the Sesqui-Centennial Historic Architectural Exhibit will be open to the general public. City and county officials, Boards of Education, hospital boards and other groups within a radius of Youngstown will be issued special invitations to come and acquaint themselves with new building products and methods of construction. Company representatives and A.S.O. members will be on hand to welcome guests.

State President Reviews Convention Plans with Committee Heads

At a meeting held at the Shady Hollow Country Club in Canton on August 27th, the officers and heads of the various committees for the coming A.S.O. State Convention to be held in Youngstown October 14, 15 and 16 reviewed the plans and program for the Convention. President Rollin Rosser and the other officers of the A.S.O. were very complimentary of the work done by the various committees and expressed the opinion that the Youngstown Convention will be one of the most interesting and informative conventions held in the past several years. A very entertaining program has been arranged for the lady visitors and architects who plan to attend the Convention are urged to bring their wives along in the knowledge that they will be royally enter-

tained. Elsewhere in this issue will be found the tentative general program and the program arranged for the ladies. Appearing in the picture below left to right are:

Frank F. Smith, President, Eastern Ohio Chapter; W. Boyd Huff, Convention General Chairman; Arsene Rousseau, Chairman Tours and Transportation Committee; Charles F. Steiner, Jr., Vice President Eastern Ohio Chapter; P. Arthur D'Orazio, Chairman Registration and Reception Committee; Clarence Kissinger, Chairman Hotels, Luncheons and Banquet Committee; Burt V. Stevens, Chairman Publicity Committee; Charles Firestone, Jr., Chairman Program Committee; Trefon Sagadencky, Chairman Budget Committee; Charles J. Marr, Secretary A.S.O.; Rollin S. Rosser, President A.S.O.



Completed Program Assures a Most Successful A.S.O. Convention

National Officers, Exhibits, Parties, Outstanding Features of 1953 Meeting in Youngstown

Three full days of activity, planned by the Eastern Ohio Chapter as hosts, will provide an outstanding convention for members of the Architects Society of Ohio in Youngstown on October 14-15-16. From opening tour to closing Annual Banquet, the convention committees have set up a program aimed to interest and please the architects of the state and their wives. Appearance of A.I.A. national officers, an address by Talbot Hamlin F. A. I. A., and exhibits of historic Ohio architecture and new building products will be outstanding points of this year's meeting. Exciting parties all three evenings will add the lighter touch and provide those in attendance with necessary entertainment and relaxation.

Opening the three-day meeting will be an afternoon trip through one of Youngstown's nationally known steel plants, The Youngstown Sheet and Tube Co. Transportation will be arranged from the Hotel Pick-Ohio and back and architects and their wives will have an opportunity to see all the steps in the production of one of building's most important products. On Wednesday evening, program chairman Charles Firestone, Jr. and his committee have arranged an informal get-acquainted party. Known as the "Ice Breaker" this get-together in the hotel Cascade Room will be no luke warm affair. A gay night of music and dancing will mix up folks from all over the state and set the tone of new acquaintances and good fellowship for the entire convention. This program will be sponsored by the Canton Stoker Co.

Thursday morning the men will get down to business with a convention session starting at 9:30. Additional sessions are scheduled for Friday morning and afternoon. Important A.S.O. matters will be acted on and election of officers will take place during these meetings. President Rollin Rosser from Dayton will preside. At the Thursday Luncheon, the speaker will be Perle L. Whitehead of Cincinnati, Deputy Regional Director of the Boy Scouts of America. On Thursday afternoon a public relations workshop is set for 2:30. With the expanded new program now under way by the national organization this meeting will be of vital importance to all architects. Raymond S. Kastendieck of Gary, Indiana, our new Great Lakes District Director will act as moderator for the session and Walter Megronigle of the nationally famous public relations firm of Ketchum, Inc., Pittsburgh, handling the A.I.A. program will be a speaker.

At the Thursday noon luncheon the convention attenders will be welcomed by Frank F. Smith, president of the host chapter, and Mayor C. P. Henderson of Youngstown.

That evening "Clair W. Ditchy Night" will honor the appearance of the new A.I.A. president from Detroit. Mr. Ditchy is the first president from the Great Lakes District and will address those assembled after dinner. Cocktails will precede the meal and a sparkling Minstrel Show staged by an all-feminine cast from New Philadelphia under the direction of Mrs. Charles J. Marr will follow the president's message.

Friday noon luncheon will feature the appearance and talk by George Bain Cummings of Binghampton, N. Y.,

recently elected Secretary of the A.I.A. High point of the convention will be the Annual Banquet in the Cascade Room on Friday night. The President's Reception will start things off and new officers and awards will be announced following the dinner. Talbot Hamlin, nationally known architectural historian, teacher and author from Columbia University will be the speaker. Mr. Hamlin's subject will be "Ohio Architecture—Yesterday and Tomorrow" and his audience can expect a brilliant discussion and prognostication about things around us in Ohio.

Two outstanding exhibits will take a major part in the convention program. The six state chapters will display in competition unusual historic architectural examples of their area. This will probably be the most complete showing of early Ohio architecture ever assembled and will constitute the architect's observance of the state's Sesqui-Centennial celebration. The other exhibit will be the Building Materials Exhibit. All available booth space has long been reserved by the various companies which will present their products and building methods to the visiting architects. New products are being specially featured and representatives of the various firms will be on hand to greet you and explain things. Five one-hour periods have been set aside on the convention program for the inspection of these exhibits and the displays will be open at all times for further viewings. A group of prizes will be awarded to the most thorough visitors to the many booths.

Entertainment of the ladies during the entire meeting has not been neglected. Wives are assured a pleasant three days through the planning of Mrs. H. Walter Damon and Mrs. Frank F. Smith and their committee. Women will join their husbands for the tour, Ice Breaker, "Clair Ditchy Night" and the Annual Banquet. Separate luncheons at the hotel on Thursday and Tippecanoe Country Club on Friday are scheduled and a trip through a milk glass plant and an afternoon of entertainment are also included. Friday morning is left open for shopping. Transportation will be provided for all events away from the hotel.

In addition to A.S.O. members, all registered architects in the state are invited to attend the convention events. Also, the general public is invited to view the many exhibits. It is expected that many will take advantage of the offer.

General Chairman, W. Boyd Huff, Co-Chairman, H. Walter Damon and the Eastern Ohio Chapter feel they have planned an excellent program and hope for the largest attendance in state history. The hosts will make every effort to see that every one has an instructive and entertaining time.

Advance registration will be of great benefit both to you and convention officials. Chairman "Pat" D'Orazio of Registrations urges that you send in your card immediately so that the Registration Desk can handle you with a minimum of time and effort on your part. Hotel reservation cards should likewise be mailed early for best accommodations.

A.S.O. and Eastern Ohio are looking forward to seeing you in Youngstown on October 14-15-16.

CLEVELAND CHAPTER A.I.A. PRESENTS AN EXHIBIT AT THE CLEVELAND MUSEUM OF ART, OCTOBER 2 TO NOVEMBER 4, 1953

Theme — Architects Help People

This exhibition shows how Cleveland Architects are helping people to live better lives — by designing better buildings — Buildings that make work easier and play pleasanter — Buildings that help people to learn, to save, to worship — Buildings that are noteworthy, past or present, because they too help people — materially or spiritually.

The exhibition presents 65 projects selected by an out-of-state juror, Thomas Creighton, Editor of "Progressive Architecture," from recent work in the Cleveland area, plus eleven noteworthy projects chosen by members of the Cleveland Chapter, American Institute of Architects, from Cleveland Architecture past and present.

Report on Judgment

During the week of April 27th, thirty-three firms or individuals submitted 224 projects for selection by Mr. Creighton. These were unwrapped and placed in Building Type categories by the Committee. After two days alone with the submissions, the juror delivered his list of selections, sealed and in quadruplicate, to the Committee members. The lists were opened after the juror's departure from Cleveland.

Sixty-seven projects have been selected, representing thirty firms. They are listed below.

The exhibition will be designed around these projects, plus buildings of Project Noteworthy. Each firm whose work has been selected will be expected to prepare an exhibit mount for each project according to specifications which will be issued by this Committee, (to insure conformity to an over-all Exhibit Scheme).

The Committee thanks all contributors, and hopes for the continued cooperation of the exhibitors, to the end of making the 1953 Museum Show a top-notch Public Relations Activity.

I COMMERCIAL & INDUSTRIAL

COMMERCIAL

International Headquarters Corp.	Richard Hawley Cutting Assoc.
Office Building for John Lambert	Ward and Conrad
Sandusky Shopping Center	Damon, Worley
Office for Preslan	Damon, Worley
Meadowbrook Merchant Mart	George S. Voinovich
Shopping Center, Toledo, Ohio	Garfield, Harris, Robinson and Schafer
Kane Company	Michael Kane
Lyndhurst Shopping Center	Weinberg-Teare
International Union Hdqrs.	Joseph Ceruti
Shaker Square Camera Shop	Robert A. Little
Skillet-Drive-In Restaurant	Tuchman and Canute
I. J. Fox	Milo Holdstein
Burnham Stoppel Co., Office & Warehouse	Leavitt and Spieth
Central National Bank	Alfred W. Harris

INDUSTRIAL

Office - Wheeling & Lake Erie Railroad	Ward and Conrad
National Malleable & Steel Castings Co.	Dalton-Dalton Associates
White Motor Company	J. Trevor Guy

II RESIDENTIAL & HOUSING

RESIDENTIAL

Gross Residence	Jack Bialosky
Grandillo Residence	Michael Kane
Krieger Residence	Ernest Payer
Lloyd Residence	Ernest Payer
Stambaugh Residence	Robert A. Little
Griesinger Residence	Robert A. Little
Schulman Residence	Tuchman and Canute
Sugar Residence	Tuchman and Canute
Residence	Anthony S. Ciresi
Cull Residence	Alfred W. Harris

HOUSING

Walban Apartments
Mayfield Garden Estates
Lakeland Homes
Apartments, 306 Whitmore Rd.
Cedar Apartments Extension

Michael Kane
Michael Kane
Dalton-Dalton Associates
Weinberg and Teare
Project Architects/Engineers

III PUBLIC BUILDINGS

CIVIC

Inter-Continental Airport
Cleveland-Hopkins Airport
Akron Public Library

Cutting and Associates
Outcalt, Guenther & Associates
Tuchman & Canute & Robt. A. Little

Cleveland Zoo, Pachyderm
South Euclid Municipal Center

Hays and Ruth
Hays and Ruth

RELIGIOUS

St. Leo's Church & School
West Side Chris. Reform Church
Our Saviour Lutheran Church
Temple Emanuel (N. Carolina)
West Shore Unitarian Church
Euclid Congregational

John Miller
Ward and Conrad
George S. Voinovich
Braverman and Halperin
Weinberg and Teare
Anthony S. Ciresi
Carr and Cunningham

EDUCATIONAL

Maplewood Elementary
School Social Science, W.R.U.

Ward and Conrad
Garfield, Harris, Robinson and Schafer

Franklin School, Massillon
Mt. Union Campus Plan
Wayne County High
Zanesville High School
Eastern Heights School, Elyria
Cleveland Boys School, Hudson
Western Res. Academy Dorm.
Lakewood Auditorium
South Euclid Elementary School
Highland Drive School

Dalton-Dalton Associates
Mellenbrook, Foley & Scott
Spahn and Barnes
Outcalt, Guenther & Associates
Outcalt, Guenther & Associates
Walker and Weeks
Robert A. Little
Hays and Ruth
Carr and Cunningham
Harris and Nosek

HEALTH

Cedar-Glen Medical Center
Polyclinic Hospital Addition
Union County Hospital
Chronic Hospital
Medical Building, Akron, Ohio
Doctor's Office

Bascom Little
Dalton-Dalton Associates
Mellenbrook, Foley & Scott
Walker & Weeks
Tuchman and Canute
Leavitt and Spieth

IV MISCELLANEOUS

Chairs—Michigan Seating Co.
Securit Door Hardware

Douglas Maier
Onnie Mankki

The show will open Friday, October 2nd from 8:00 to 10:00 P. M. with a Preview Opening by invitation for Museum and A.I.A. members and guests.

From Saturday, October 3rd to Wednesday, November 4th at 5:30 P. M. the exhibit will be open to the public. The A.I.A. Museum Show Committee is headed by Robert A. Little as Chairman with J. Byers Hays, George Dalton and Andy Buren assisting.

OHIO — HOME OF PRESIDENTS

Just to keep the record complete, the National Council of Architectural Registration Boards at the annual meeting in Seattle re-elected Chas. E. Firestone of Canton, Ohio as President for another year. President Firestone is serving his third term as a member of the Ohio State Board of Examiners of Architects.

Another Buckeye President, a native of Kelly Island, Ohio was elected President of the American Institute of Architects at the Seattle meeting of the Institute. More about Clair W. Ditchy appeared in last month's issue of the "Ohio Architect."

Be Sure to Attend the
"ICE BREAKER" PARTY — OCT. 14th
Hotel Pick-Ohio — Youngstown



Unusual Minstrel Show on Convention Program

Thirty entertainers from New Philadelphia under the direction of Kathryn Marr will present an all-girl minstrel show on Friday evening as a feature of "Clair Ditchy Night." Interlocutor, end men, dancers and chorus will perform for convention goers following the dinner honoring Mr. Ditchy, new president of the American Institute of Architects.

This group of ladies directed by the popular wife of Charles J. Marr, A.S.O. Secretary, has been in existence for several years and has appeared very successfully before numerous civic and charitable organizations. They present a real old time minstrel show, with typical dialogue, southern songs and a number of specialty numbers.

The above picture shows three of the costumed performers in one of the many skits. The Eastern Ohio Chapter is happy to be able to present this outstanding group as one of the entertaining features of this year's convention in Youngstown.

BUILDING MATERIALS EXHIBIT

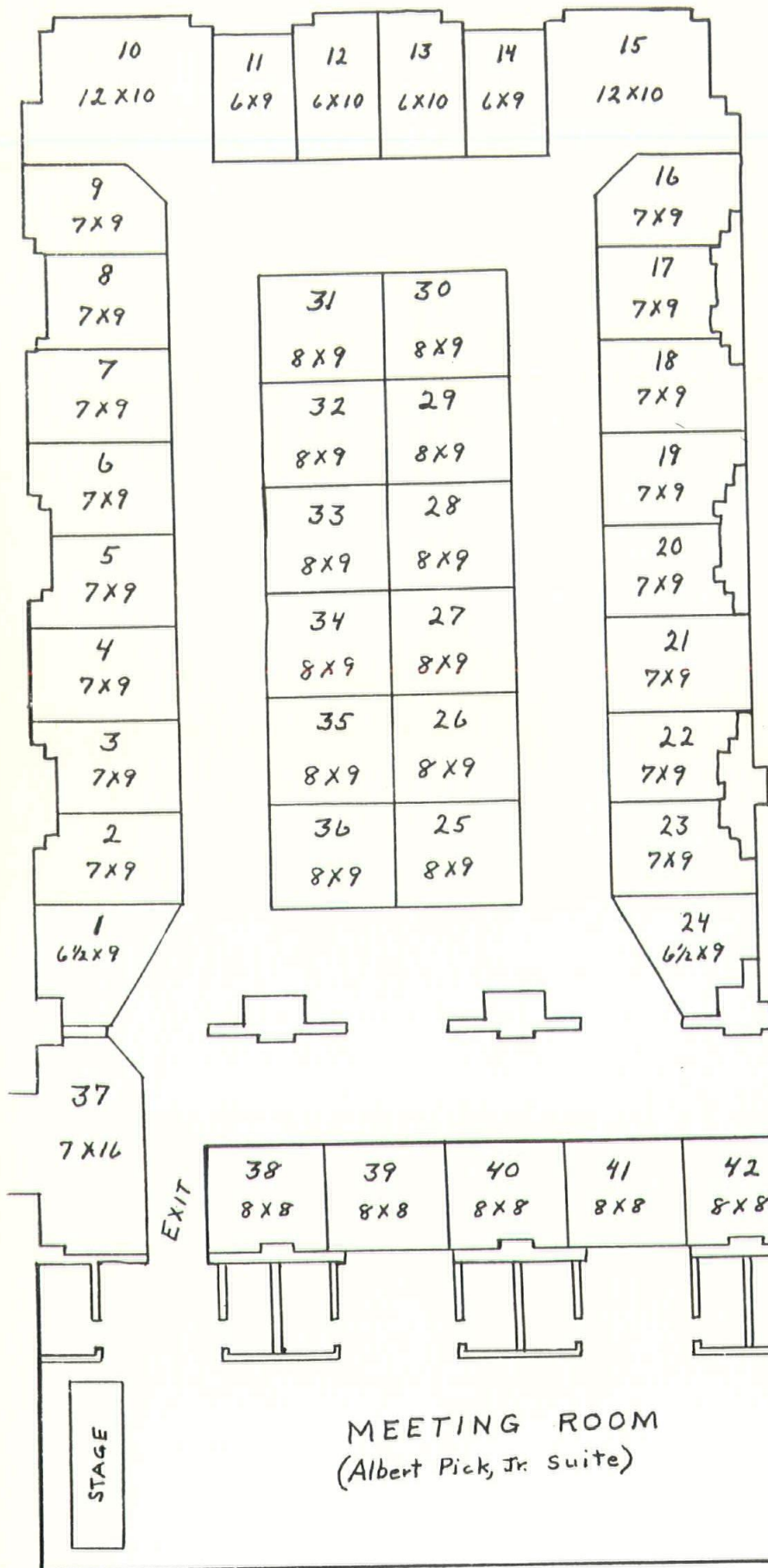
A. S. O. CONVENTION

OCTOBER 14, 15, 16, 1953

HOTEL PICK-OHIO YOUNGSTOWN, OHIO

EXHIBITORS and BOOTH NUMBERS

COMPANY	BOOTH NO.
Maurice A. Knight Co.	1
DeWees & Roper Flooring Co.	2
American Welding & Mfg. Co. (Bldg. Prod. Div.)	3-4-5-6
Pittsburgh Plate Glass Co.	7
Art In Bronze, Inc.	8
Josam Mfg. Co.	9
Tiffin Scenic Studios, Inc.	10-11
Bertolini Bros. Co.	12
Wadsworth Millwork Co.	13
Janson Industries	14
Ohio Bell Telephone Co.	15
National Radiator Co.	16
Aluminum Co. of America	17
Ohio Power Co.	18-19
Lumberman's Door & Trim Co.	20
R. O. W. Wholesale Distributors, Inc.	21-22
Zonolite Co.	23
R. L. Wurz Co.	24
Glidden Co.	25
Williams Pivot Sash Co.	26
R. C. Mahon Co.	27-28
Kitchen Cabinet Sales Co.	29
Crawford Door Sales Co. of Ohio	30
Modernfold Door Co.	31-32
Builders Sales & Service (Overly Mfg. Co.)	33
Price Bros. Co.	34
Truscon Steel Co.	35
Harold Bergman Co.	36
Timber Structures, Inc.	37
W. M. Kyser Sales Co.	38-39-40
Charles Haas Co.	41-42
Lumiland Organization	43-44
Foldoor and Surfaces, Inc.	45
The Whitmer-Jackson Co.	46



ENTRANCE

Additional Exhibitors located on Ballroom Floor and their Room Numbers.

COMPANY	ROOM NO.
Tiles of Clay, Inc.	216
Geo. P. Little Co.	218
J. A. McMahon Co.	220
H. H. Robertson Co.	222
Resolite Corp.	224
International Business Machines	226
Owens-Corning Fiberglas Co.	228

**HOMES SELL
FASTER**
pre-planned for...

ALL-ELECTRIC LIVING



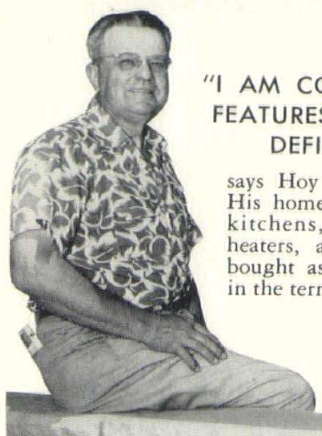
Yes, all-electric homes sell faster because they offer not just shelter, but the comfort and convenience of modern electrical living. All-electric homes are a *way of life* . . . clean, efficient, worksaving. Homes planned around electrical appliances have an unparalleled appeal. When you design homes for

modern homemakers, include adequate wiring for future electrical expansion. Plan important appliances right into the blueprints . . . electric ranges, dishwashers, disposals, water heaters, and automatic laundry equipment.




"THE WONDERFUL ELECTRICAL FEATURES OF OUR NEW HOME WERE DEFINITELY ONE OF THE DECIDING FACTORS IN OUR BUYING IT. MY PRAISE IS UNLIMITED."

That's the opinion of Mrs. Parker B. Arnett, whose new all-electric home in the Mill Creek Park Estates, Youngstown, is shown above and at left. The Parker home features a remote control lighting system which permits low-voltage wall plates at every door and a 12-station master panel which controls important lights all over the house.



"I AM CONVINCED THAT ELECTRICAL FEATURES IN ANY NEW HOME ARE DEFINITE SELLING POINTS,"

says Hoy L. Powell, Youngstown builder. His homes are designed around all-electric kitchens, laundries, large-capacity water heaters, and other appliances, which are bought as a package, completely installed, in the terms of the mortgage.

*Go all
electric!* 



O H I O **Edison** C O M P A N Y

A business-managed, tax-paying electric company



Marietta panels were of two basic sizes — 8' x 10' x 5" and 8' x 8' x 5", plus special sizes. Window frames were cast into panels.

PRECAST WALL PANELS PERMIT RAPID ERECTION

The use of insulated, precast concrete wall panels produced and erected by The Marietta Concrete Corporation, Marietta, Ohio, permitted the walls of the new Ohio State Fairgrounds Merchants and Manufacturers exhibition building in Columbus to be erected at the rate of 4,200 sq. ft. a day.

Some of these panels were used to close in the walls of this 500' x 150' building in less than 5 days. Panels are in two basic sizes 8' x 10' x 5", and 8' x 8' x 5", plus special sizes. They consist of two layers of high strength concrete separated by 2 inches of rigid Owens-Corning Fiberglas insulation. Steel window frames are cast into the panels.

The panels were shipped to the Fairgrounds site by truck from The Marietta Concrete Corporation plant in Marietta, Ohio. A motorized crane was used to lift the panels off the truck and swing them into position against the building framework. When in position, the panels were bolted directly to the building framework. A crew of approximately eight men, including the crane operator, set the first Marietta panel in place at 9:00 a. m., Monday, July 20. At the end of the day Tuesday, July 21, some 8,400 sq. ft. of wall panels had been put in place, closing in one entire side and part of another. Both 500 foot walls were erected in less than 5 days. These panels provide a finished wall. No additional work is required to insulate or decorate them. Aluminum windows will be fitted into the steel window frames cast into the panels.

The use of this unique type of construction which utilizes revolutionary erection techniques, will enable

the contractor, George Sheaf & Co., Columbus, Ohio, to meet requirements of the contract which allowed 10 weeks for erection of the building from date contract was awarded to opening of State Fair week, August 24. The Butler steel framework consists of standard framing fabricated at the factory and shipped to the building site ready to erect. Marietta precast concrete panels, designed for use with this framing, were cast in Marietta, Ohio, trucked to Columbus, and bolted to the building framework. The roof is built up of blankets of special Owens-Corning Fiberglas Aerocor insulation draped over the purlins and covered by aluminum roofing planks, the huge building is completely encircled with Fiberglas insulation. Some 75,000 sq. ft. of Aerocor insulation is in the roof, and each of the 204 Marietta concrete wall panels is cast with a 2" layer of rigid Fiberglas.

SNOWBALL WITH MARIETTA CONCRETE

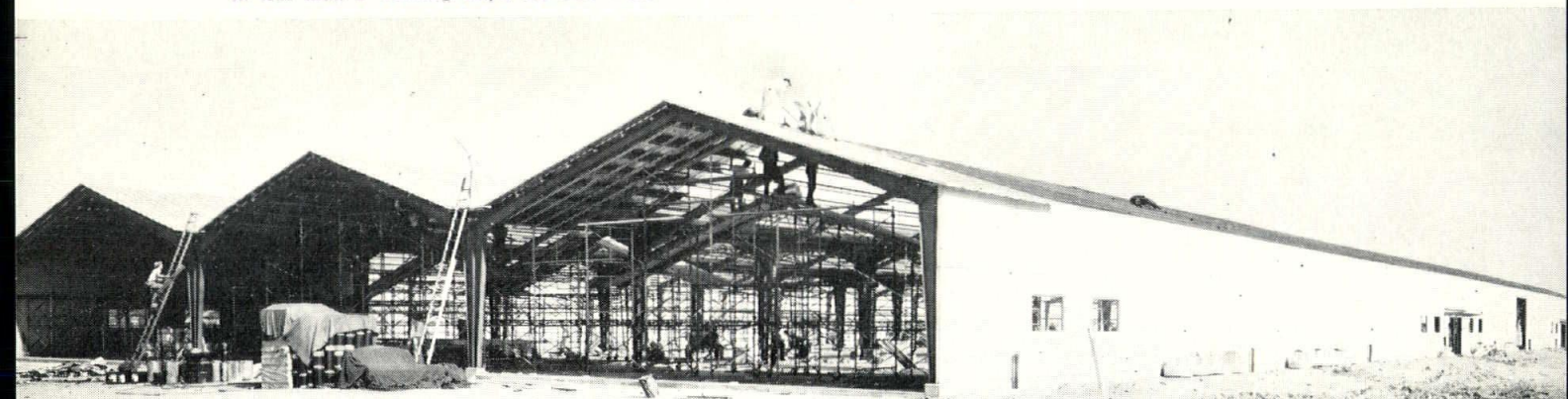
The appointment of John R. Snowball, 2596 Neil Avenue, Columbus, Ohio, as consulting engineer to The Marietta Concrete Corporation, Marietta, Ohio, has been announced by Frank L. Christy, president.

Mr. Snowball, a leading authority in the field of structural and precast concrete, has been associated with the Portland Cement Association office, 50 W. Broad Street, Columbus, since 1940, as housing and products engineer, structural engineer and quality concrete lecturer for the PCA District Office. His duties at The Marietta Concrete Corporation will consist of calling on architects, engineers, contractors and concrete products plants, to provide them with information and assistance in the uses of lightweight aggregate, BESLITE and other Marietta concrete products.

Mr. Snowball has devoted his life to the concrete business. A graduate of Purdue University with a B.S. in Civil Engineering, he has been engaged in concrete roadwork, was maintenance engineer for the New York Central R. R., was a design engineer for the Truscon Steel Company in Indianapolis, served as Chief Engineer for the Prest-o-lite Company also of Indianapolis, and was associated with the firm of Esselstyn-Murphy-Hanford, architectural engineers of Detroit, where he designed the Belle Isle bridge.

After leaving this firm of architects, Mr. Snowball became associated with the Portland Cement Association in Columbus, from 1925-29, then entered the contracting business, and was associated with the Norwood Construction Company, Cincinnati, Ohio. Following this, he was appointed a traveling engineer with the Public Works Administration working out of the Chicago regional office. It was from this position he returned to PCA in Columbus in 1940 where he remained until named consulting engineer for The Marietta Concrete Corporation.

In less than 5 working days, the side walls of this 500' building were closed in with Marietta precast insulated wall panels.



for extra sales appeal...



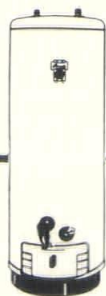
install modern

GAS

appliances
in the homes you build!

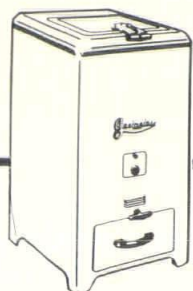


Today's buyer's market demands something
extra in a new home! And . . . Modern GAS ranges,
refrigerators, water heaters, clothes dryers and



incinerators are the answer. They cost less to buy,
less to install and less to operate. They insure
quicker, easier sales. Remember, 85% of the

homemakers in this area prefer GAS —
the modern fuel — for today's modern living!



the ohio fuel *gas* company



Schedule of Services and Charges for Residential Building

EDITORIAL COMMENT:

The following schedule of services and fees for the work carried out by an architect in planning and designing a residential project and the supervision thereof, is quite representative of similar documents in use in many other parts of the United States.

Local conditions, over the years as well as local customs which have grown for long periods, have exercised influences that will account for the many local variations from this schedule.

The division of this work and the descriptions for each heading reflect the experiences of many architects, and except for certain (minor) local requirements, they seem to be quite adequate for coverage, clarity and professional requirements. The Architects Society of Ohio has published similar information in the past and we understand a Committee of the Society is working to bring same up to date.

The professional services of the architect consist of necessary conferences, preparation of basic design studies, working drawings and specifications, taking bids, assisting in the selection of contractors, issuing certificates of payment, and supervision of construction. The architect acts as the agent of the client and endeavors to guard the client against defect and deficiencies in the work of the contractors, but does not guarantee the performance of their contracts.

Estimates of the cost of the work or any part thereof will be made by the architect if the client so desires. The architect will not guarantee that the work can or will be done for the amount thereof, but he will endeavor to keep the actual cost of the work as low as may be consistent with the purpose and character of the building, and with proper workmanship and material.

1. The Minimum charges for the architect's services, are as follows:

(a) For new residences, ten per cent (10%) of the total cost of the work, when let under one general contract.

(b) For residential alterations and additions, the charge will be at the rate of \$6.00 per hour for the architect's time, as well as for drafting and supervising time, but not less than fifteen per cent (15%) of the total cost of the work, when let under one general contract.

(c) For accessory buildings, site planning, landscape features, and landscape design, the fee will be determined by special arrangement.

(d) For designing or selecting decorative interiors, fixtures, fittings, furnishings, built-in or free-standing furniture or other special work, the fee will be regulated by circumstances and conditions.

2. Payments shall become due as follows:

(a) On account of basic studies, working drawings and specifications, there shall become due the sum of \$..... payable as follows:

1/7 of the sum upon execution of this agreement.

1/7 of the sum upon completion of the basic studies.

4/7 of the sum upon completion of the working drawings.

(In the event of larger work or drawings requiring several months to complete, intermediate payments will be due.)

1/7 of the sum upon completion of the specifications.

(b) When bids have been taken, there shall become due and payable an additional amount which, added to the above payments, shall equal seven per cent (7%) of the lowest responsible bids secured.

(c) The remainder of the fee (adjusted as to the actual cost of the building) for taking bids, assisting in the selection of contractors, and supervising the work, shall be paid as the work progresses.

(d) Should the architect supervise all or any part of

the work and correlate the trades under the separate contract system as distinguished from a single general contract, then that portion of his fee pertaining to taking bids, assisting in the selection of contractors and supervising the work (paragraph (c) above) shall be increased by an amount equal to five per cent (5%) of the cost of any work let under such separate contracts.

(e) Should the work be stopped for any reason whatsoever, the architect shall be remunerated in proportion to the services he has rendered, based upon the division for services outlined above.

3. Special Services:

(a) If, after a definite scheme has been approved, the client makes a decision which, for its proper execution, involves extra architectural services or expenses on the part of the architect for changes in or additions to the drawings, specifications or other documents; or if the architect be put to extra work and expense by delays caused by the client or a contractor or by the delinquency or insolvency of either; or as a result of damage by fire or other casualty; or by a contract being let by cost of labor and materials plus a percentage or fixed sum; the architect is to be equitably paid over and above his fee for such extra service and expense.

(b) When it is necessary to have superintendence, other than the architect's usual supervision, the architect will, upon the client's authorization, appoint a clerk of the works, whose salary shall be paid by the client in addition to the fee paid to the architect.

(It is essential to note the difference between "supervision" and "superintendence." Architectural supervision is the usual service consisting of time spent in the office and visits of inspection to the building during its construction, and is extraneous to the service encompassed by the drafting; said visits shall be at the discretion of the architect as and when he may deem them necessary. Superintendence, however, is continuous service on the job by a special assistant representing the architect, but his salary is to be paid by the client in addition to the architect's fees.)

(c) For services beyond the architect's local radius of operation, a charge for the services of the architect and his assistants, and all traveling and other incidental expenses, may be made in addition to the above mentioned minimum schedule of fees.

(d) No deduction is made from the architect's fees on account of penalties, liquidated damages or other sums withheld from payments to contractors, nor do any of the fees above enumerated cover charges for professional services rendered in connection with litigation in consequence of delinquency or other causes, or insolvency of the client or of a contractor.

(e) When labor or material is furnished by the client, below its market cost, or when old materials are re-used, the cost of the work is to be interpreted as the cost of all materials and labor necessary to complete the work, as such cost would have been if all materials had been new, and if all labor had been fully paid for at current market prices when the work was ordered, plus contractor's profits and expense. Special discounts or rebates to the client shall not be deducted from the total cost when computing the architect's fee.

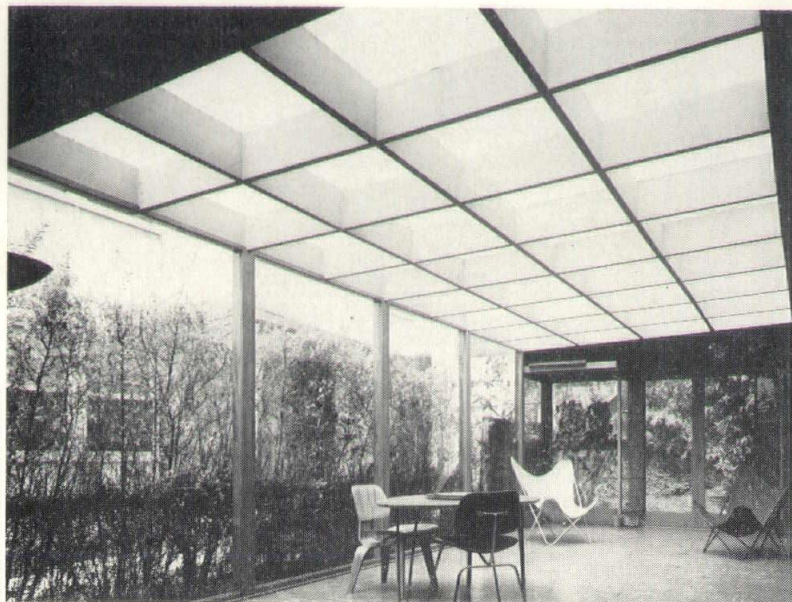
(f) Perspective renderings or models will be prepared by the architect at the request of the client, but these will be charged for in addition to the above schedule of fees.

4. Services of Specialists:

(a) Property surveys, contour maps, and building permits shall be furnished and paid for by the client, as

(Continued on page 66)

Modernize with **RESOLITE** TRANSLUCENT STRUCTURAL PANELS



A Resolite covered patio is filled with bright daylight, yet provides complete protection from the weather.

WHAT IS RESOLITE? It is the top-grade translucent structural panel. Molded (corrugated or flat) of thermosetting polyester resins reinforced with a mat of glass fibers, it is a quality product with controlled uniformity of thickness, weight and color.

WHERE IS RESOLITE USED? Many thousands of square feet of Resolite are being used for skylighting and glazing industrial buildings. It corresponds to all standard building and roofing sheet corrugations, needs no flashing, caulking or framing. Flat Resolite is installed with conventional glazing methods. Perhaps the most widespread residential use of Resolite is for covering patios, porches, terraces and carports. Resolite gives complete weather protection for years, yet passes plenty of sunlight into facing rooms. It is becoming increasingly popular for use in interior partitions, toilet and shower stall enclosures. And, is ideal for decorative glazing of commercial properties.

WHY IS RESOLITE SO POPULAR? Resolite is shatter-proof, a hammer blow won't break it. It does not warp, sag, check or craze under extremes of heat, cold or moisture. It will not mildew or rot, is inert to industrial fumes and salt air.

Resolite is economical, for it is quickly and easily installed. It can be worked with ordinary building tools — with no special skill required.

Resolite is an efficient light transmitter. By effectively diffusing light rays it softens glare, actually improves transmitted natural light.

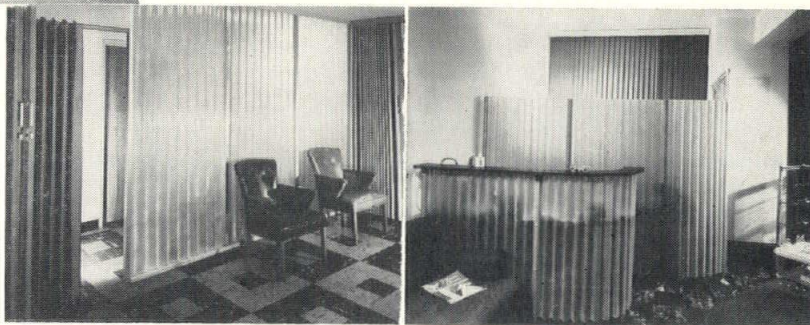
Resolite is colorful. It is available in eight beautiful colors and semi-clear with either plain or decorative finish. It requires no surface protection.

for

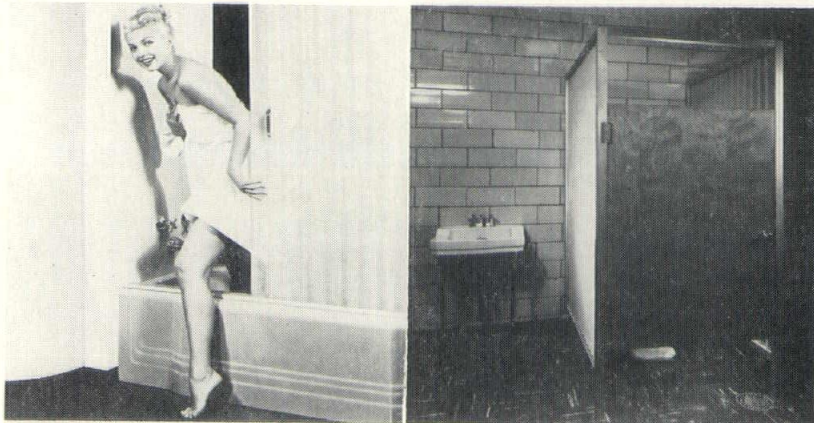
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PARTITIONING
DECORATING**

These amazingly versatile sheets are sweeping the country. Glass fiber-reinforced plastic is the most talked about, written about material in years.

There's good reason for this. What other material transmits light freely, yet has the strength of metal? It's strong (a similar material is used in Army bullet-proof vests, boats and auto bodies are made of it), yet it weighs only eight ounces per square foot! It won't crack, rot, rust, warp or sag and needs no refinishing; yet it can be nailed, cut or drilled with ordinary tools.



A Resolite partition lends color and richness to any room, and its translucency gives light with privacy. It's light in weight, but can't shatter or splinter. Sparkling Resolite panels are flexible so that curved partitions and counter facings like the ones on the right are a simple, low cost installation.



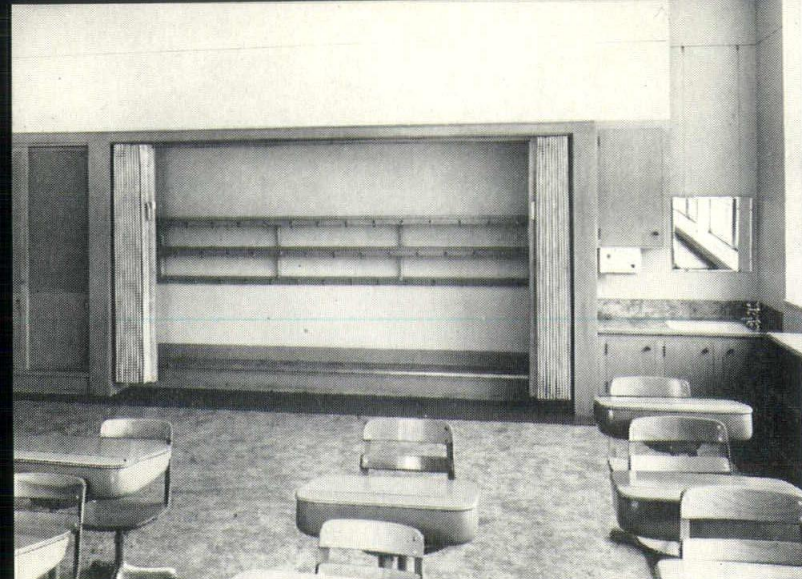
Resolite is the ideal material for bath enclosures and toilet compartments. It is safe, provides privacy and dispels gloom. It is unaffected by hot water, won't shatter.

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at the A.S.O. CONVENTION**

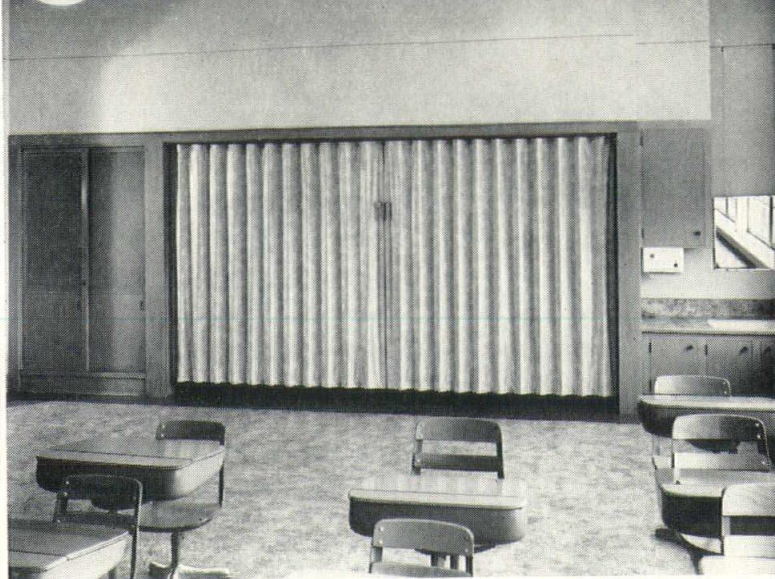
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Gilles Sweet Elementary School, Fairview Park, a suburb of Cleveland. In this new and modern school there are eight rooms using Modernfold Doors as wardrobe enclosures. Picture shows doors open. Fulton, Krinsky, Dela Motte, Architects, Cleveland.



Gilles Sweet Elementary School, Fairview Park, a suburb of Cleveland. In this new and modern school there are eight rooms using Modernfold Doors as wardrobe enclosures. Pictures shows doors closed. Fulton, Krinsky and Dela Motte, Architects, Cleveland.

Folding Doors Give Greater Flexibility to School Design

By W. K. BARKETT

Folding doors are providing the architect a practical means of achieving true flexibility in school design.

The open planning which is so popular in residential construction is equally well applied to schools. As school enrollments continue to increase and as classroom requirements and school programs are constantly changing, the need for flexibility of space and multiple use of floor areas is more important than ever before. In modern school planning almost every piece of furniture and equipment is movable. The whole idea of large multi-purpose rooms, in which furniture and equipment can be regrouped in different areas, lends itself perfectly to getting greater room flexibility with Modernfold doors as movable dividing walls.

The most useful classroom is the room where floor space can be increased or decreased depending upon the nature of class activities at any particular time. Movable wall partitions such as Modernfold accordion folding doors are proving highly successful when used to

divide a large room into smaller units for elementary grades. Many activities of kindergarten, first, second, and third grade pupils can be supervised in one large home room. When activities for individual groups are provided these individual groups can be separated by Modernfold doors. Modernfold doors create temporary alcoves for showing movies and slides to one group without disturbing a nearby group of students engaged in some other activity. Thus, the school planner can make rooms do "double duty," such as to divide a lunch room or study hall into a series of classrooms. The same thing can be done with school libraries. These doors are also used to create "work rooms" between two classrooms so that both class groups may have access to the work area as their programs demand.

The trend now is of designing large wardrobe closets at the side or back wall of a classroom providing suitable space for clothing and personal articles of elements.

(Continued on page 64)

The Lounge in the new gymnasium of Lakewood High School, another Cleveland suburb. Here the Modernfold Doors are shown separating the Snack Bar from the Main Lounge.

The Lounge in the new gymnasium of Lakewood High School, another Cleveland suburb. Modernfold Doors divide the lounge into three separate rooms. Architects Hays and Ruth, Cleveland.



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The lobby of offices of Hays and Ruth, Architects, Cleveland. Here an atmosphere of refinement greets you and the cordial manner of Miss Subwick, the receptionist, makes one feel welcome.



Architect J. Byers Hays busy in his office.

BEAUTIFUL OFFICES OF HAYS & RUTH, ARCHITECTS OF CLEVELAND

These views are of the offices of architects J. Byers Hays, F.A.I.A. and Paul C. Ruth, A.I.A., located in the Playhouse Square Building, 1720 Euclid Ave., in the heart of downtown Cleveland.

Architect Hays is well known throughout the country as an outstanding designer of modern structures. He has been a member of numerous juries for national competition. It has been said that when architect Hays speaks on architectural subjects—people listen. His design for the Bird House for the Cleveland Zoological Gardens has won national recognition. This building, as well as others of his design, represent a new and fresh use of modern materials.

Architect Ruth was co-chairman of the Technical Committee to review the Cleveland Building Code as well as the regional one. Later his influence was felt, along with that of architects Rollin Rosser of Dayton, Melvin Frank of Columbus and others, in securing a revision and further study of the Ohio State Building Code.

Both Hays and Ruth, are past presidents of the Cleveland Chapter of the A.I.A. in which they have and are now, giving generously of their time and effort.

Their office has just completed the Gymnasium and Social Hall, an addition to the Lakewood High School, located in Cleveland's largest suburb, and they have again been appointed architects for an Auditorium addition to this same group of buildings. This Auditorium will have a seating capacity of 1,900 and will again represent an innovation in the use of building materials. The emphasis in this structure will be on the acoustical conditions—which must be perfect.

It is a little known fact that both of these buildings are running well under the original estimates.

Currently, Hays and Ruth are busy designing an addition to Cleveland's famous Art Museum in Wade Park which will run into the millions. The work on the South Euclid Municipal Center is now on the boards,

(Continued on page 32)

Partner, Architect Paul C. Ruth in his office.



Conference room, Hays & Ruth, Architects. On table is model of addition to Cleveland Art Museum.





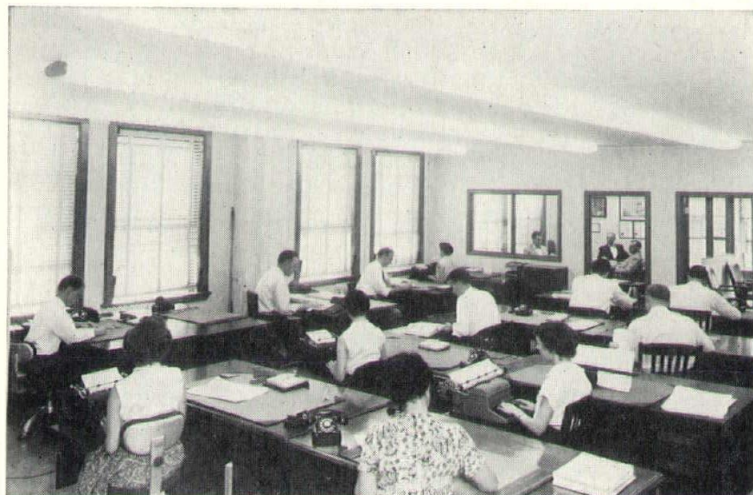
PLANNED OFFICE LIGHTING PAYS OSTENDORF-MORRIS DOUBLE DIVIDENDS

1. It Helps O-M Employees Work More Efficiently
2. It Helps O-M Management Sell Modern Lighting to Tenants

They believe in "practicing what they preach" at the Ostendorf-Morris Company, one of Cleveland's largest realty operators (1300 commercial tenants). And they "preach" Planned Lighting. Reason: they know from their own experience with it that modern lighting pays real dividends—in personnel efficiency, accuracy, and morale. In fact, they're so proud of their own lighting installation on the 13th floor of the Public Square Building that they bring their tenants in to see it. The result: more than 75 per cent of the company's tenants in the building have patterned their lighting after the Ostendorf-Morris installation. "I'd say at least 50 per cent of all our tenants in the 17 office buildings we operate have asked us to install new lighting in the past several years," says Glenn Roof, assistant vice president at O-M. "New lighting in those rental units adds more value per foot of office space for the building owner, assures greater satisfaction and top quality work for the tenant."

WORKING TOGETHER, Glenn Roof (right) and William Mize, CEI representative, plan re-lighting for O-M tenant, tailor recommendations to tenant's specific needs.

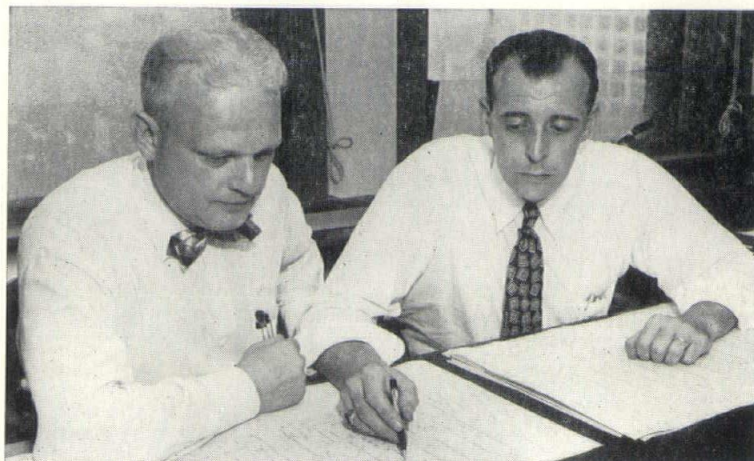
PLANNED LIGHTING can add value and efficiency to your offices and the offices you design or build. For additional information on Planned Lighting—how it can work for you to your profit—simply call CHerry 1-4200, Commercial Sales Department. There is no charge for this service of course.



OSTENDORF-MORRIS offices are designed for eye-comfort. Louvered fluorescent fixtures provide 60 units of light at desk level. A. B. Crandall, O-M Vice President, says high level light in 8500-square-foot office space has contributed materially to minimum personnel turnover, maximum work efficiency.



GABRIEL COMPANY, another O-M tenant, saw Ostendorf-Morris offices in Public Square Building, decided to remodel its own quarters in CAC Building along same lines. Gabriel employees have given new lighting enthusiastic approval.



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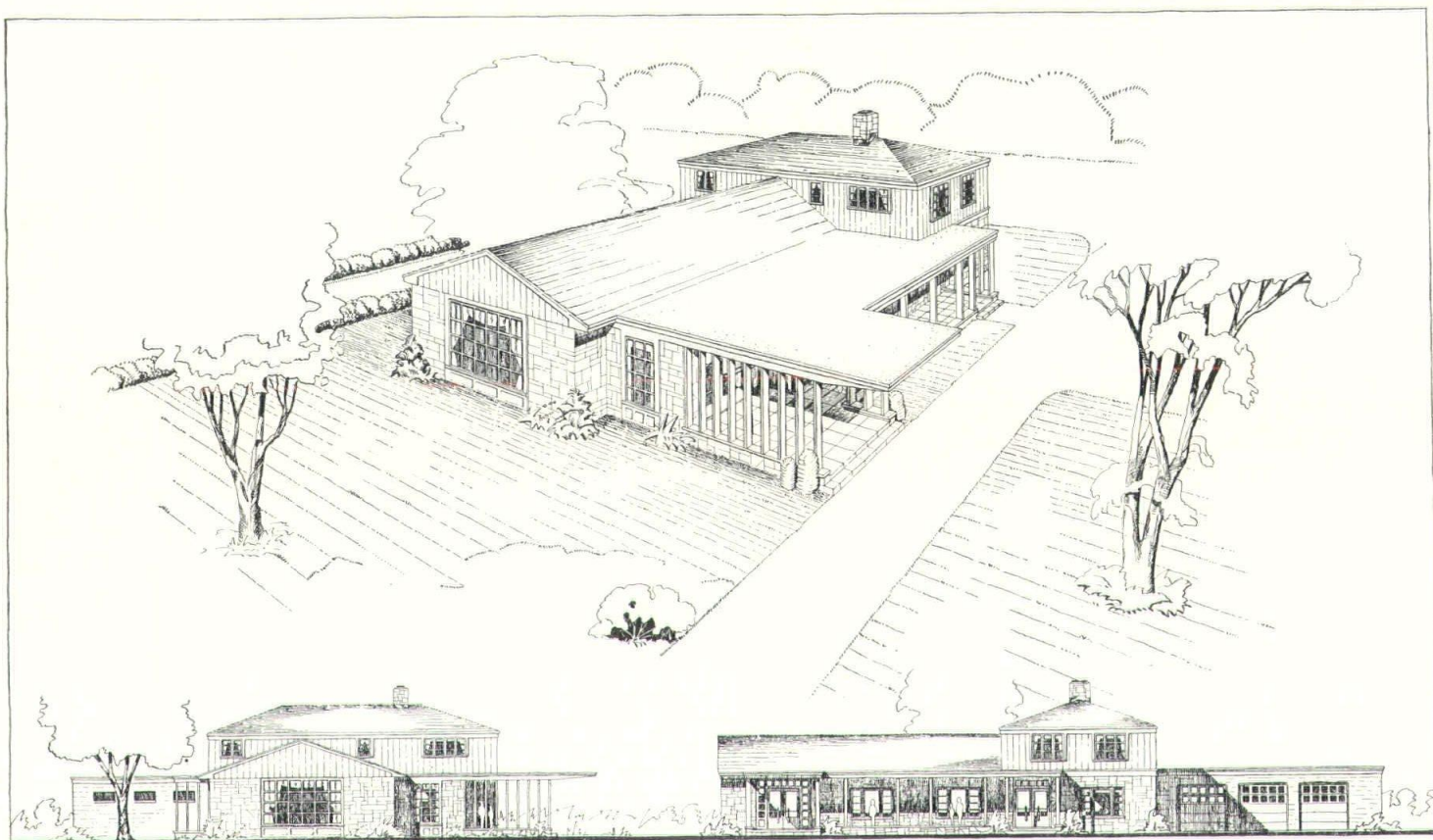
Why You Should Let An Architect Plan Your New Home

So you're going to build a house! What a wonderful feeling when that decision is finally made! You have always hoped that some day your family could live in a house you had planned for yourselves—combining all the best points of houses you have been in or read about. This house of yours—so you dreamed—would have comfort, convenience, room for all kinds of real living, places for everything, and above all an atmosphere that said it was yours. No doubt you have a drawer full of clippings collected through the years; a neat trick for magazine storage, a unique kitchen plan, a sketch of an especially good looking fireplace or bay window. In your mental picture this house is complete—Christmas lights at the window, snow blanketing the roof. Or yours may be a summer picture, in color, with trees cast-

dirt "fill" has killed them. Maybe you, to whom a picket fence is somehow a symbol of home, will find you have bought in a restricted section where no fences are permitted!

These may seem comparatively minor disappointments. There are major ones, too—flooded cellars, stairs so narrow your furniture won't go up, roof flashings that leak. These all may easily be avoided with an expert's help. So, in all sincerity, we suggest that before you go a step further on this big adventure, you call in the man who knows how to turn dreams into houses—the architect.

You choose your architect and from then on he serves you, plans for you, protects your interests, watches each stage of the building process. His years of professional



ing slow-moving shadow patterns on white clapboard walls and hollyhocks leaning over your picket fence.

Those are your dreams of home—or something like them. This article is offered to you in the hope that it will help make those dreams come true.

For most people build just once in a lifetime, but even if you built a dozen houses you'd still need help in bridging the gap between mental pictures and actual brick-and-mortar results. We don't want to create the impression that building a home is hard or full of pitfalls, but we are firm in the conviction that unless you take advantage of expert help, the results may find you disappointed and disillusioned.

Let's go back for a minute to those mental pictures of yours: maybe snow won't blanket your roof in winter, because the house is so inadequately insulated that heat pours out and melts it away in no time, at your expense. Maybe those beautiful trees that made you choose this particular spot will never cast leaf shadows, because your house is badly set on the lot, so that the necessary deep

training and his specialized experience are put to work to see that you get the house you want, plus the special safeguards he knows about and the many little extras he will suggest as plans develop.

In these pages we shall tell you what you can expect your architect to do for you and how you two can best work together, so that you may know the satisfaction of saying, "There's where I live. We built it ourselves—it's just what we've always wanted."

Fitting the House to the Lot

It is ideal if your architect can help you pick your building site. He knows about such details as utilities: gas, water, sewage, electricity. Is there an alley or basement? Does the type of soil mean special treatment will be needed to make sure of a dry cellar?

You, naturally, will think of many of these things. You will also have asked about schools, transportation, tax rates, garbage collection, fire and police protection.

(Continued on page 56)

Rely On and Specify with Confidence...



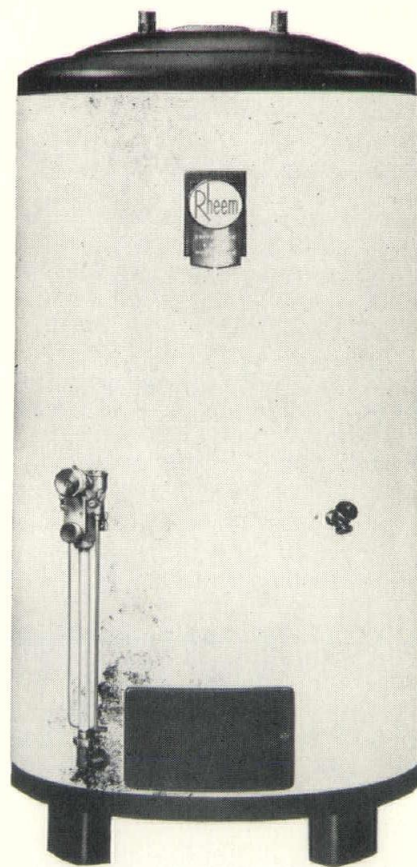
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with its tank of pure copper inside a tank of steel — adding years of service and priced for popular demand. The costly high replacement rate for automatic storage water heaters, due to the natural corrosive action of pure water on most metals, is *cut dramatically*, by the revolutionary new Rheem COPPERMATIC water heater.

With a completely new design — a tank of pure copper inside a tank of steel resists water corrosion many years longer than ordinary heaters and *stops rust completely*.

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Automatic GAS WATER HEATER
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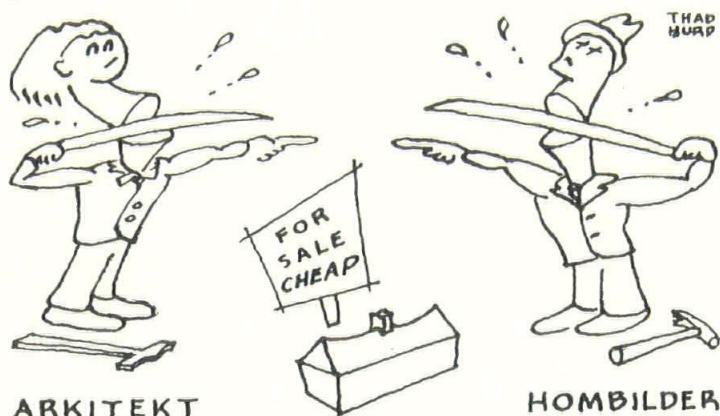
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OUR OWN THROATS?

By THAD B. HURD, A.I.A., Toledo, Ohio

Business is good! Ever since the war, we architects have been so busy doing schools, churches, hospitals, stores, banks, libraries, jails and more that we've hardly had time to attend our own A.I.A. meetings.

Business has been good for the homebuilder too! The long standing housing shortage, only aggravated by the war, plus the increase in number of families as the boys returned and settled down, made people so desperate for a place to live that the builders were selling any kind of a house before they even had the footings poured.



ARKITEKT

HOMBILDER

Yes, business is good. BUT, supposing it doesn't keep up. Supposing the frantic demand for buildings falls off. The economist boys are already calling this the "long boom." Maybe then the architects who couldn't be bothered with houses would like some of that stuff. And maybe the builders who couldn't be bothered with architects would like a well designed house that sells rather than go out of business liquidating lemons.

Product design ("architectural service" to us architects, "Plans" to the builder) always has been and always will be a part of the home builder's operation. But the second rate stuff that gets by when times are good may be just what pushes him to the wall when business falls off.

* * *

By hook or crook, good, bad or indifferent, the homebuilder gets his "plans."

Builder X has been getting by with stuff torn from a magazine and turned over to some high school boy that's learned how to "draw blueprints."

Builder Y has put on his payroll some bright young architectural student just out of college.

Builder Z has tied up with a good architect.

Business slows up. Home buyers get choosy.

Builder X offers last year's model. He sells at a sacrifice.

Builder Y offers a crossed-up product. His "bright young man" has design ability, but he lacks experience and mature judgment. The builder has to change the design to make it buildable, and lacking design ability, botches up the very thing he's trying to get.

Builder Z has the benefit of design ability, experience and mature judgment. He gets product design with built-in production economy and real consumer appeal. If anyone is selling houses, hasn't Builder Z got the best chance?

* * *

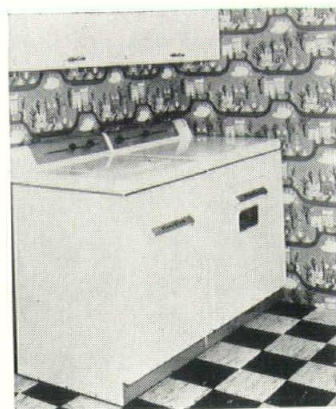
Builder Z was smart.

He talked to Architect C who was so busy doing "big

(Continued on page 62)

INTRODUCES COMPANION PIECE HOME LAUNDRY

Introduction of the new Hamilton Automatic Washer and completely redesigned 1954 Hamilton Clothes Dryer brings to the market Hamilton's Companion Piece automatic home laundry. These matched units have been handsomely styled by industrial designer Brooks Stevens.



The Hamilton Automatic Washer is a new offering from an "old hand" in the automatic laundry equipment business. Hamilton's introduction of the first automatic clothes dryer in 1938 was one of the earliest contributions to pushbutton washdays. The first automatic washer had been marketed only a short time before and the startling new Hamilton Dryer made completely automatic washdays possible for the first time.

The new washer features Selecta-Cycle Control, a completely automatic control which is claimed to be wonderfully simple to use. For most loads, the user need only press the Selecta-Cycle Control button at the Fill position, and all remaining operations in the washing cycle start and stop automatically on a pre-determined timetable. For special washing jobs, however, any part of the cycle can be skipped, shortened or repeated by simple adjustments of the control button.

When selector is set at Hot, total water consumption is only 11 gallons of hot water and 23½ gallons of warm. Total cycle time is 32½ minutes.

A fitting companion piece to the washer is Hamilton's handsome, matching dryer. Evident in its smart appearance and wealth of operating features is the fact that the original clothes dryer continues to lead in dryer development. The new 1954 dryer again features Hamilton's patented Carrier-Current Air Circulation. This exclusive feature eliminates violent forced-air drying, since two separate air currents are provided. Air which is heated and comes in contact with the drying clothes is taken in at one point, then when it becomes moisture laden, is whisked away by the brisk, steady Carrier-Current.

Another popular feature of the Hamilton Dryer is its Fabri-Dial Temperature Control. A range of drying temperatures from 135 to 190 degrees is provided. Drying temperature is controlled by setting the Fabri-Dial, which is calibrated in actual fabric types. To select the perfect drying temperature for a load of cottons one need merely set the Fabri-Dial at Cotton. Fabri-Dial eliminates the need for constant reference to complicated drying temperature tables.

Thousands and thousands of Hamilton users are accustomed to such Hamilton features as the Sun-E-Lamp, which gives clothes sunshine freshness all year around, the extra-large, extra-efficient Double-Pass Lint Control and the full 130-Minute Automatic Timer for special drying jobs.

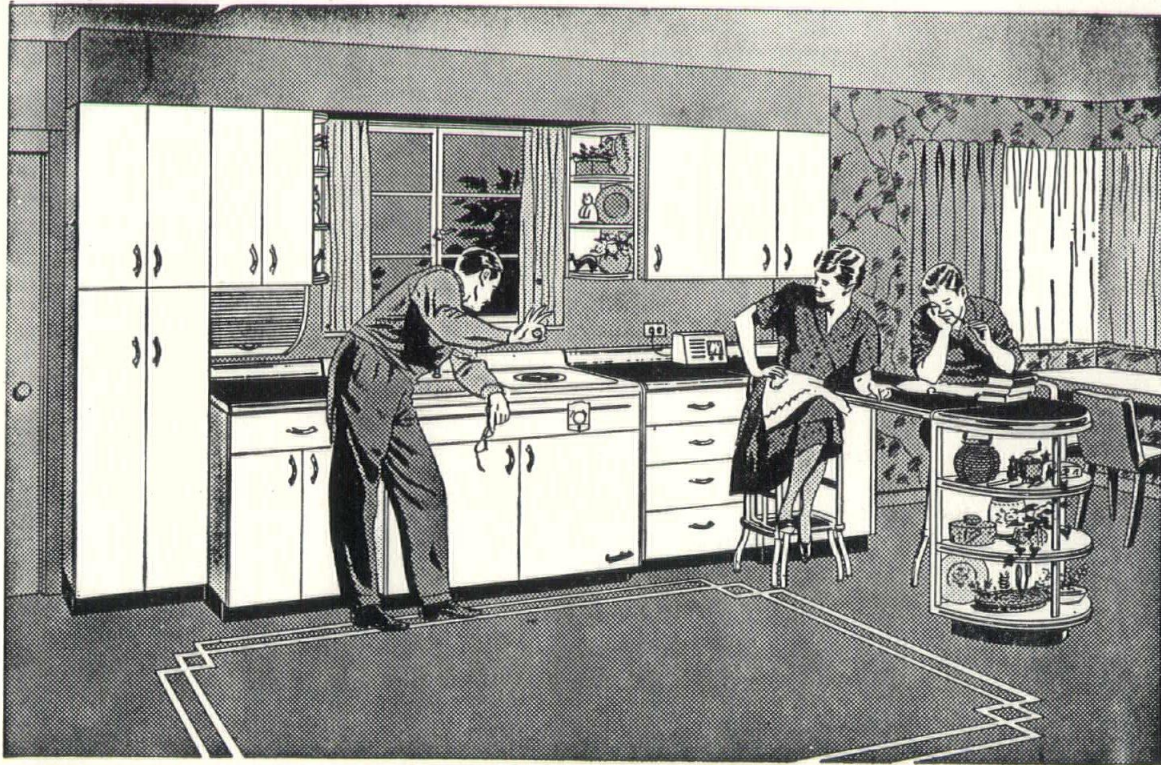
Exclusive Hamilton distributors in Ohio are Tecca Distributing Co., 4501 Prospect Ave., Cleveland; Leuthi and Welsh, Inc., 73 East Naghten St., Columbus; V. J. McGranahan, Inc., 117 S. Perry St., Dayton; McGranahan Dist. Co., 1920-30 N. 13th St., Toledo; The Johnson Electric Supply Co., 317 Sycamore St., Cincinnati

The Youngstown Jet-Tower Dishwasher has completely modernized dish washing!



Youngstown Kitchens

BY MULLINS



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signed to meet the needs and desires of the modern housewife. Every improvement in this Dishwasher is based on exhaustive research and thorough test. The architect who specifies Youngstown Jet-Tower Dishwasher can be sure he is pleasing his client or prospective customer. So it pays to keep your eye on Youngstown.

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Building owners need not fear the effects of accumulated snow as shown on the above marquee. Laboratory tests proved it will stand up under a load of 60 pounds per square foot, which will meet maximum building code requirements.

A New Aluminum Lightweight Marquee

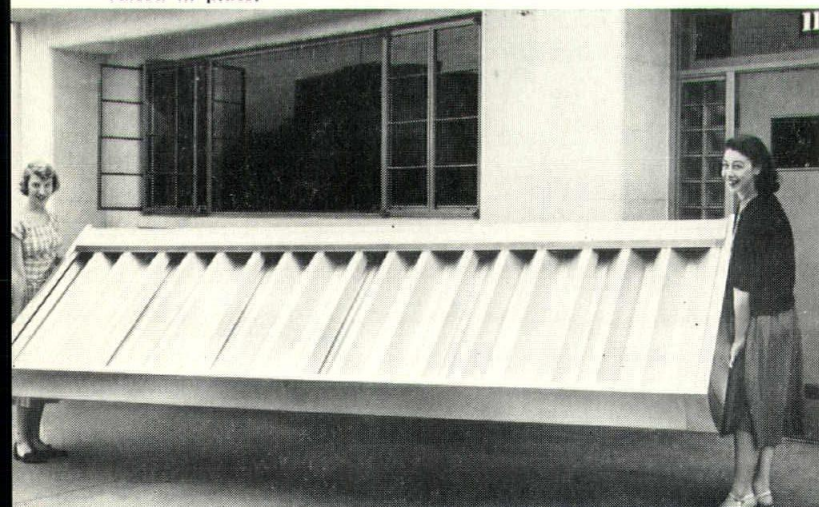
Control of sun — or shade making — is as old as the building industry itself. In the United States external shades or overhangs have long been used in homes, stores, apartments, and small commercial buildings to achieve some sort of sun control. The new Kawneer marquee is reported as the most advanced solution to sun control yet developed.

Sun control represents the full turn of the circle. Man has long tried to get more light into buildings. Once he succeeded he found himself working hard to control that light. To get good light in and keep out bad light has been the problem for years. What man has been after is a sunshade which will allow a maximum of light with minimum of the sun's heat.

Another reason for the place of marquees in today's architecture is the development of air conditioning in the postwar years since 1946. Many factory and office building owners decided that air conditioning was wonderful — but, they discovered, very expensive. When an architect or building owner found out what air conditioning in all its ramifications costs, he looked for ways

(Continued on page 63)

Installation men will have no trouble handling the new W-marquee as shown by the two girls below. This marquee weighs about 65 pounds, or 1.35 pounds per square foot, and is easily carried to the job and raised in place.



PERSONALITIES AND ITEMS IN THE NEWS

The City Council of Euclid, Ohio has instructed Building Commissioner Woodmansee not to issue permits for retail business establishments until the owners have provided sufficient parking areas.

* * *

Willoughby, Ohio Building Inspector James H. Gleason advises that the position has developed into more than he bargained for. The city recently adopted a new zoning ordinance, giving enforcement to Gleason who already was issuing permits, interpreting codes and doing the inspection on building, plumbing, electrical, sewer and heating. The 69-year old official, a retired engineer, took the job in 1951 on a part time basis.

* * *

Joseph Maloney, building commissioner of Cleveland Heights, Ohio contemplates little future necessity for concern of one particular building. The structure, with shops on the ground floor and apartments above housing 30 families, has been the site of two damaging fires within recent years, the latest on February 23, with a \$250,000 fire loss. The building is now being rejuvenated, as completely fireproof as possible, with modern materials.

* * *

Chairman Robert Burdette, of Akron council planning committee, is soliciting complaints from builders to determine if Akron's three-year-old building code is causing construction costs to rise. The committee embarked on the study after demands of builders for a thirty percent reduction in permit fees or better service from the building department. A representative of the builders told the committee that Chief Building Inspector James Easton must have more help to give the kind of service the building industry is paying for.

* * *

Batavia, Ohio — Edward Rosendahl, Milford architect, has been named by the Clermont County Commissioners, as chairman of the committee appointed to draft a building code for the county. Mr. Rosendahl presented an initial draft of the code to the commissioners on June 19th, and stated that the complete code is now ready for final action.

* * *

Chagrin Falls, Ohio — Builders must now obtain a permit before excavations are started, or be subject to a fine, under a recent amendment to the building code.

* * *

Dan W. Kothe, safety-service director of Elyria, Ohio for the past 5 years, resigned to accept the post of Director of Public Utilities.

* * *

Herbert W. Starick has resigned as city manager of Middletown, Ohio, to accept a similar post at Dayton, filling a vacancy created by the resignation of R. E. McClure, January 1st. O. E. Mauch has served as acting city manager at Dayton since January.

* * *

Carl D. Franks, executive vice-president of Portland Cement Association, has been elected to the position of president, succeeding the late Frank T. Sheets.

PRES. ROLLIN ROSSER HONORED

Our popular A.S.O. president, Rollin L. Rosser has been honored by appointment to the Dayton City Planning Commission.

Barcol WARDROBE door

FOR CLASSROOMS



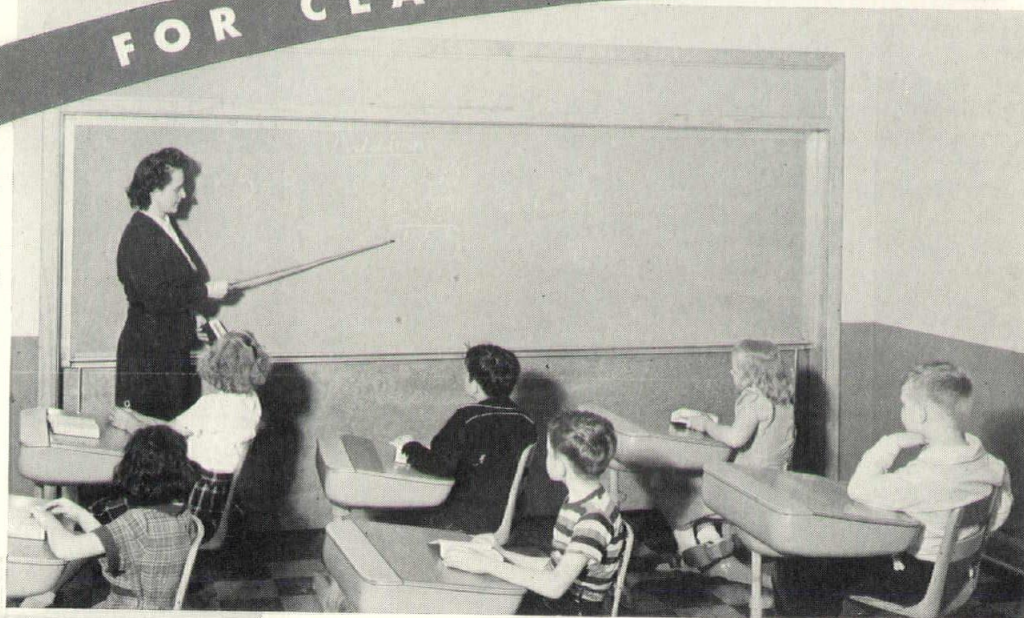
OPERATES
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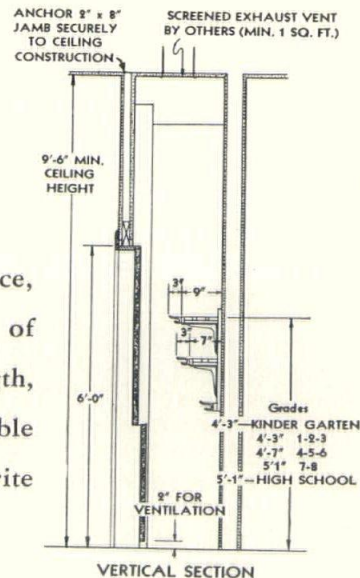
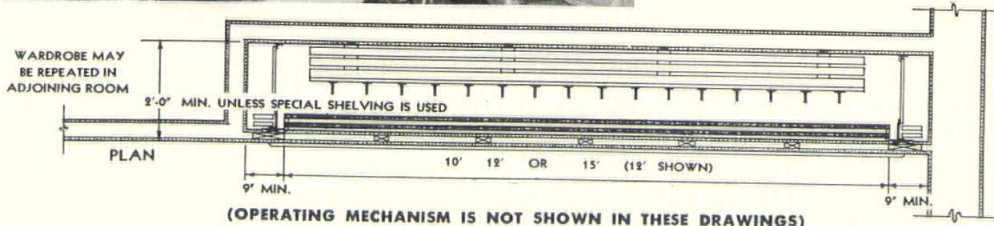
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FOR MODERN SCHOOLS**



This new door opens *upward* . . . the operating mechanisms at the ends are positively *tied together*—resulting in an easy-working door that cannot tip or jam. This all-vertical arrangement takes *no* floor space in the room. Space-saving, conve-

nience, easy operation, neat appearance, concealment of clothing, protection of personal property, adaptability, strength, durability, high safety factor, reasonable cost—you get all these advantages. Write for Bulletin F-4644.

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UNITED MINE WORKERS BUILDING CHAIN OF TEN MODERN HOSPITALS

Architectural Forum Series Describes Radically New Building-Operating Concepts

How well John L. Lewis and his miners are using some of their famous 40¢ a ton Welfare royalty on coal to build a 250-mile chain of ten super-modern hospitals in Kentucky & West Virginia is described in the first of three exclusive articles starting in this month's "Architectural Forum."

Of interest, not only to hospital experts, but anyone concerned with good building, the series tells how the Kentucky Memorial Association, (UMW) has succeeded in standardizing construction methods, materials and maintenance without sacrificing individual design, and at the same time saving from 15% to 50% in material costs alone.

The article explains how the Association has created a thoroughgoing hospital system which will be a reference point for every coordinated hospital group in the future.

The UMW forces, headed by Dr. Fred Mott, former medical care administrator for Farm Security and the USPHS, figured as long as they had ten hospitals to build, they might as well take advantage of tenfold buying and integrated construction and also get the by-product of standardized maintenance and repairs. They did it without confining themselves to one architect and without getting mass-produced designs.

An examination was made of all the services usually included in a hospital and functions that could be separated were earmarked for centralization. Some of the decisions will astonish hospital people, but the Service Center, main key to coordinated operation, was worked out strictly on the basis of economy, efficiency and good medical care, after the most searching study.

The Service Center is a new and economical answer to the problem of servicing a group of small and medium sized hospitals. It is also full of ideas for large hospitals because it knits laundry, pharmacy and central sterilizing into one integrated processing and issue system. It uses the kind of production-flow thinking that goes into efficient industrial plants.

Everything touching on medical care is left in the individual hospitals. There is no centralized clinical laboratory or central record archives. Nothing has been taken from the individual hospitals that will bureaucratize medical care.

What has been centralized is purchasing, warehousing, some food processing, group administration, laundry, manufacturing pharmacy, dental laboratory and some central sterilizing.

The Service Center is located at Williamson, Ky., one of the three district or central hospitals of the chain. The others are at Harlan, Ky., and Beckley, West Va. Community hospitals are located in the towns of Man, McDowell, Pikesville, Whitesburg, Hazard, Middlesboro and Wise. Originally there will be accommodations for 1,035 beds. Eventually space will be expandable to almost double that number.

All ten hospitals are being built with an all-sash wall which goes up and expands like a sectional bookcase. These walls will have a specially developed laminated steel wall panel absolutely watertight.

Standardization has not hampered design freedom. In nursing floors alone, these ten hospitals have variously, single corridors, double corridors and a unique square arrangement. One has a freestanding round cafeteria, another hospital grows out of a big concrete shelf and one has a crystal-tower stairs hung outside the building.

SPECIAL MILLWORK MANUFACTURERS FORM NATIONAL BODY

Manufacturers of Special Millwork have organized a National Association patterned somewhat on the Portland Cement Association and other similar groups to further their joint interests and a national convention is being arranged for Chicago, October 15th and 16th.

One of the primary objectives of the new national body will be the furtherance of closer relationships between the architectural profession and the members of the industry. In this connection, Bertram A. Weber, architect, has this to say:

"A National Association of the Special Millwork Industry offers many opportunities for building a closer relationship between the Architectural Profession and the members of this great Industry.

Special Millwork is of fundamental importance to the Architect. The knowledge that it can be made and obtained inspires the designer with confidence and enables him to create with freedom of thought and imagination. It is important that the manufacturing of Special Millwork be not restricted if architectural design is to progress.

Many an Architect, and this one in particular, has blessed the Special Millwork Industry for the amazing ingenuity and skill it possesses in fabricating desired details, that are easily designed but difficult to build.

Materials and the proper handling of materials, coupled with the breadth of experience of the Special Millwork Industry, are the limitations of the designer.

It seems vital, therefore, that the Architect be informed on materials available, processes of manufacture, new materials, and new methods, in order that he can design and specify in a manner that will permit the manufacturer to readily produce a quality product.

With constantly rising costs, the Architect welcomes, and needs, reliable information on the relative costs of these materials, and relative costs of methods of manufacture. He has such drafting room problems as . . .

What is the best way to detail millwork to conform to good shop practice?

What can be expected in normal shop drawing processes, and how much must be detailed and full sized?

When to use veneer and solid wood?

What are the limitations of dimensions in relation to price when exceeding certain unit sizes?

What material is most suitable and meets the budget allowed?

A National Association can be of great service in providing more complete informative material than can be prepared by individual concerns. These in turn could be disseminated at local levels by its members, to open the opportunity for another closer bond between the Architect, who designs, and the Mill man, who produces.

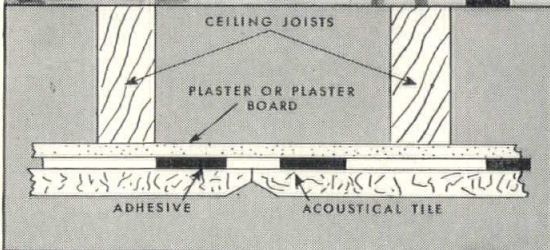
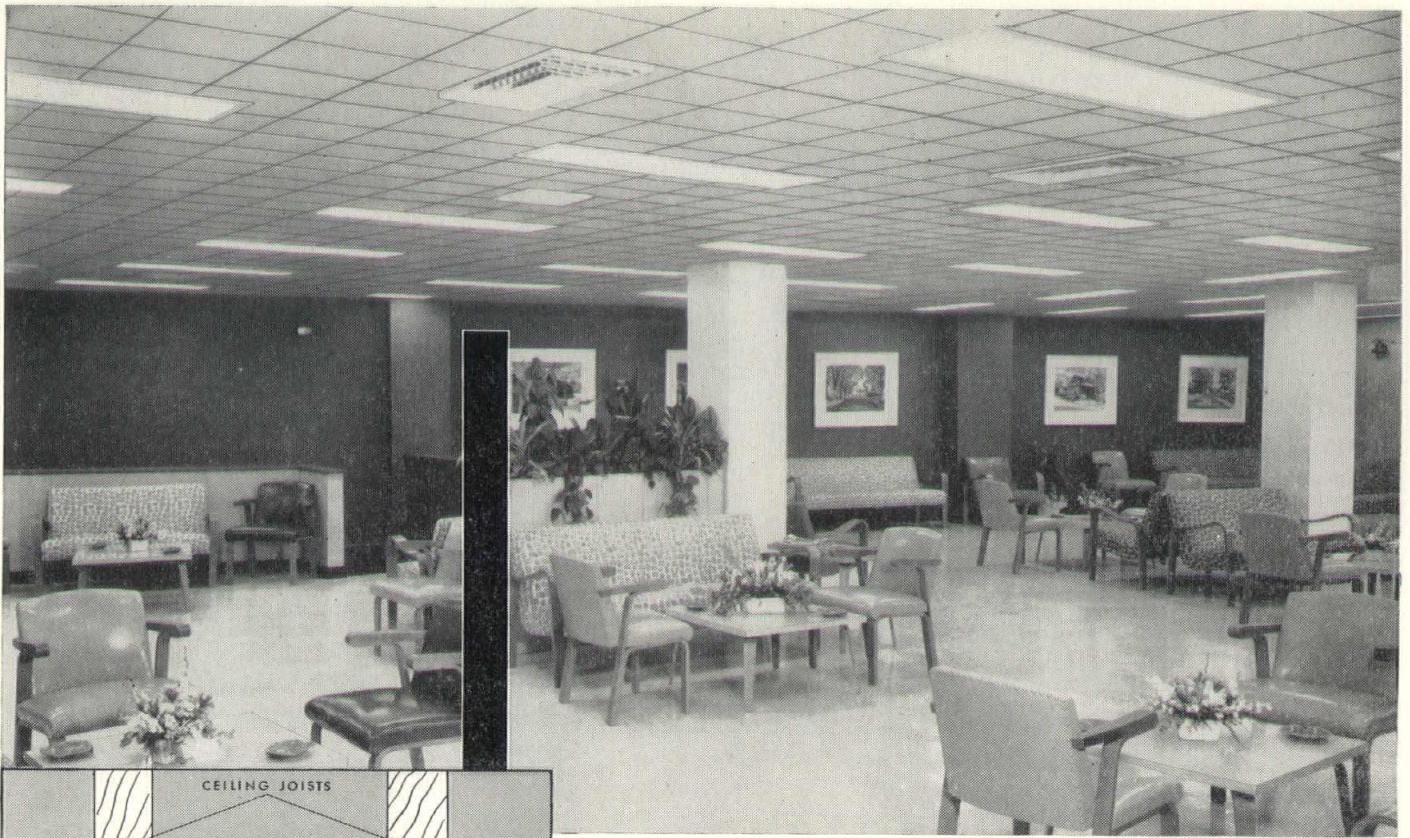
The Association can assist in establishing uniformity among its members in bidding practices, shop drawing practices, uniformity in fabrication, improvement in manufacturing techniques, to help achieve the common goal of all the building industry, "Improvement in Quality of Service and Product."

OFFICES OF HAYS AND RUTH

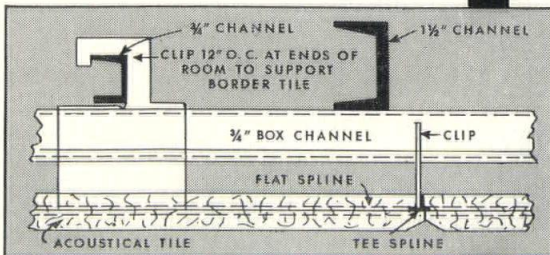
(Continued from page 24)

as well as another immense structure for the Cleveland Zoological Gardens—the Pachyderm building for the housing of the large animals such as the elephant, hippopotamus and rhinoceros.

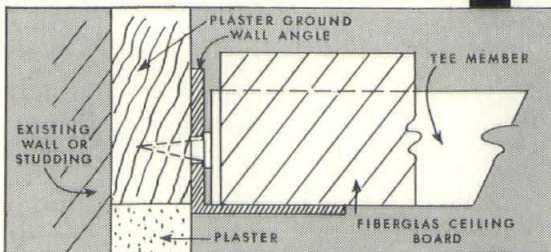
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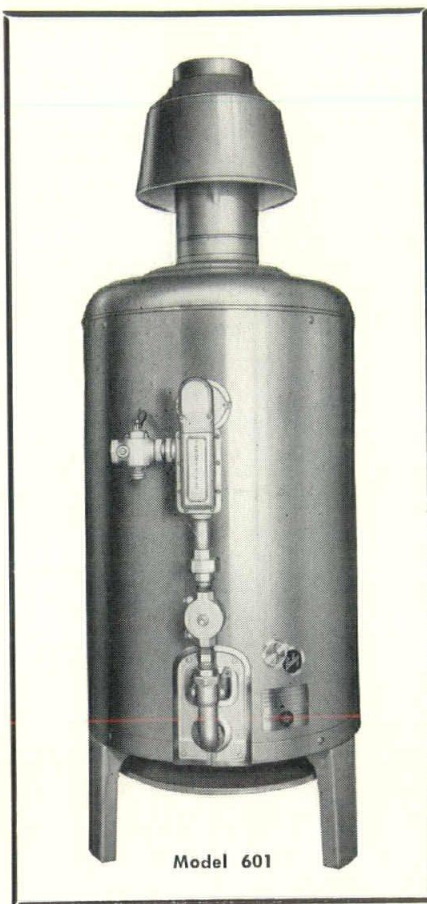
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New Literature

P. & F. Corbin Division, The American Hardware Corporation, Park Street, New Britain, Connecticut, has just published two folders which picture and describe the firm's new line of Defender Standard-Duty Cylindrical Locks and Latches.

K-80, six-page, 8½" x 11" booklet for professional use contains detailed information about the new Corbin Defender line of Standard-Duty Cylindricals, 13 functions, self-aligning, reversible, and adjustable for 1⅜" to 1¾" doors, master-keying. Auxiliary items, king-size rose plates, backset extension units, rabbeted, reinforcing

(Continued on page 36)

THE OHIO

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Mrs. Walter E. Lutz, the wife of the president of Bamboo, Inc., manufacturers of

Cleveland, is a native Japanese. Mr. Lutz met and married her while he was stationed in Japan during the Second World War. She is now applying for American citizenship.

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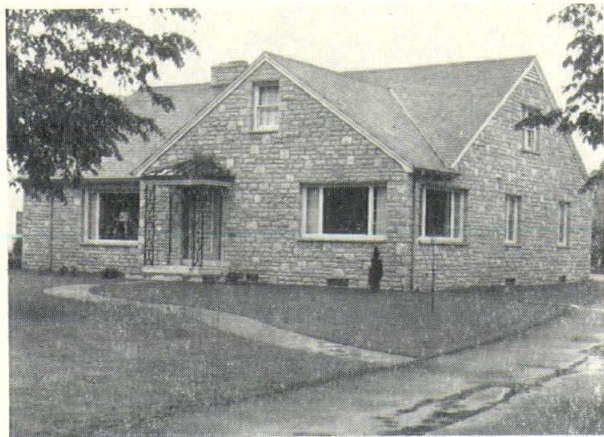
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K-81, consumer folder, 3 1/2" x 6 1/2" (folded) pictures 5 functions of the Corbin Defender Cylindrical Lock line recommended for residential use. Fashioned in wrought brass, bronze, and aluminum—master-keying. Write the company for your copies.

Air Conditioning Booklet

Basic information about heating and cooling the home is contained in a new, 24-page booklet published for the general public by the Coleman Company, manufacturer of home heating and air conditioning equipment.

In addition to discussing the principles of blended-air heating and blended-air conditioning, the booklet points up the many economies which may be realized by the home owner who installs summer cooling.

Copies of the booklet, "Heating and Cooling Your Home," may be obtained by writing to the Coleman Company, Wichita, Kan.

OZONE-NATURE'S AIR FRESHENER

The rooms of the average home confine so many potential odor-producing elements that it's fortunate they don't all act at once. There are cooking odors, cigarette smoke, food odors, those from soap, perfumes, paint, and ammonia to mention but a few. That the air is bearable most of the time is because the odor-bearing vapors are dispersed, eventually, in the large volume of the house, or are removed by air drafts. Air conditioning helps considerably, but is not a complete answer by any means.

By contrast, outside air usually seems fresher. Again, part of the answer lies in better dispersal of the odor vapors. But, in addition, nature lends another hand. Ozone — an active form of oxygen that contains three atoms per molecule instead of the customary two — plays a vital role in freshening the outdoor air. Ozone literally "burns up" the odor-carrying vapors, i. e., the extra atom of oxygen combines with and decomposes the odor molecules, thus eliminating the odor.

This being so, many devices and methods of using this principle indoors for odor killing have been devised during the past 50 years. Earlier ozonizers made use of a silent discharge between two electrodes. In this device some of the oxygen atoms in the discharge path are ionized, and recombine to form three atom molecules of oxygen, or ozone. This same process is also one of those used by

nature in producing ozone; the fresh clean smell of the air immediately following a storm is partly caused by the creation of ozone by lightning discharges. Most of the ozone in nature is produced by short ultraviolet radiation absorbed by oxygen in the upper atmosphere.

Much confusion, considerable contradiction, and some alarm have surrounded past research on the effects of man-produced ozone devices. Early research seemed to indicate that ozone was toxic to humans in certain concentrations. Later research showed that the oxides of nitrogen, which were produced by the arc discharge concurrently with the ozone (and in varying amounts depending upon the current density in the arc), greatly contributed to the toxicity of ozone.

A means was found, however, to create ozone with producing nitrogen oxides. This was by ultraviolet wavelengths (in the 1848A region) from a mercury-discharge lamp, which effectively produces ozone from the oxygen in the air. At the same time, these wavelengths are too long to produce nitrogen oxides, which require less than 1200A. The ultraviolet rays can readily be produced by a mercury-vapor lamp. Research at the Westinghouse Lamp Division Laboratories with the Westinghouse Sterilamp discharge device led to the later development of a lamp — specifically for ozone production and odor killing, and suitable for home use. The research was carried even further to determine the oxidizing action on odor molecules and, through the use of newly developed measuring techniques, to measure accurately the extremely small concentrations effective in this application.

Much interesting information has been uncovered regarding the natural production of ozone. Previously ozone was believed to be nonexistent in the air of large cities, i. e., that it was used up as fast as it was produced. However, concentrations of 0.01 to 0.15 parts per million by weight were found over Chicago in the course of a year's tests. Tests in Los Angeles by other scientists revealed up to 0.03 to 0.35 parts per million by weight. Other experiments, conducted over a period of years in various parts of the world, showed that in some sections the normal ozone concentration frequently exceeded one part per million. Based upon these tests and many others, the accepted maximum concentration of ozone is established as 1.0 part per million by weight by the United States Public Health Service. For comparison, the concentrations produced by the Odorout

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lamp in a fixture are 0.05 parts per million by weight for a 500-cubic foot room, or 0.025 for a 1000-cubic foot room. Thus the ozone produced by the Odorout lamp is well within the limits of toxicity — if such exist — since nature itself provides outdoor air with 30 to 40 times as much ozone concentration.

The odor of ozone in the air can be detected in concentrations of as little as one part in 500 million. At concentrations of one part in 50 million the odor assumes the pleasant, clover-like aroma common after thunderstorms. When the concentration reaches one part per million a sulfur-like odor becomes apparent.

Ozone is useful for other purposes as well as odor killing, being a powerful germicide. Ozone in amounts larger than those used in deodorization are currently being used in the preservation of meats, eggs, and fruits. It is a strong oxidizing agent and even higher concen-

trations can be used in bleaching and various chemical reactions. One city goes even farther, using tremendous amounts of ozone to sterilize and deodorize its water supply. Although ozone has been known for more than 100 years, we are just beginning to learn of its potentialities.

—Westinghouse Engineer

CULTURE—NEWEST U. S. EXPORT

Culture is being exported by Americans this year to such unlikely places as Athens, Berlin, Madrid and Tokyo.

The United States, long known the world over for the quality of such exports as automobiles, airplanes and tractors is now beginning to export some of our best architecture as well, in the form of an active U. S.-designed and U. S.-supervised building program for the housing and maintenance of our extensive foreign service abroad.

Architectural Forum in the lead article of a recent issue devotes 15 pages to the story of the Foreign Buildings Operations of the Department of State and "it's wise decision that only the best U. S. architecture and the best U. S. architects should represent us abroad."

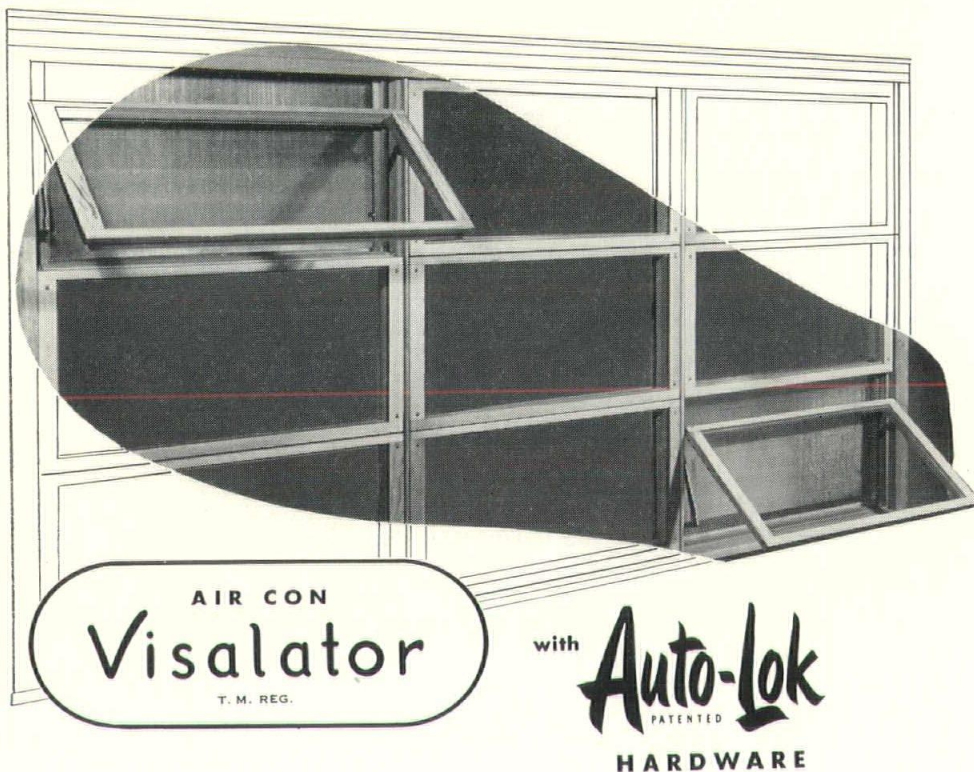
"In more than 50 embassies, consulates, information centers and staff quarters now under construction or completed in places as far apart as Madrid and Toyko, Helsinki and Rio, Berlin and Athens, FBO is displaying to the rest of the world a colorful picture of a young, progressive and modern-minded America," the article states. "The lesson will not be lost upon those who may have received a different impression from Soviet propaganda."

No country can exercise political world leadership without exercising a degree of cultural leadership as well, declares *Architectural Forum*, saying "Whether consciously or not, the U. S. Government has now made U. S. architecture a vehicle of our cultural leadership."

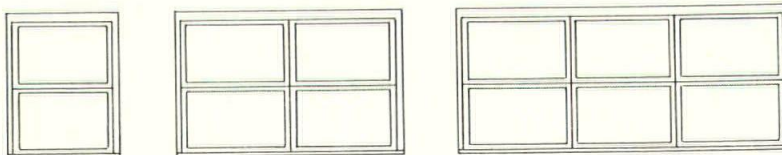
The *Forum* states that the architecture of the many structures now built or abuilding by our FBO in many parts of the free world "makes a good ambassador." It notes the comparison of its clean and friendly lines with "the pretentious classicism of official Soviet architecture abroad."

"This new crop of buildings is likely to be only the vanguard of a major 'export drive' in American architecture," the article continues. "Before long, many a U. S. corporation will be building headquarters overseas."

Forum editors predict that when such structures go up, such as the *Reader's Digest* building in Tokyo, Ford's offices and plant in the Low Countries, and U. S. oil companies' installations on the Persian Gulf, with them, hand-in-hand, will be technical assistance in the form of American building know-how.



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New Industrial Buildings Point Best Way to Cut Production Costs

One of the main reasons that the industrial building boom continues unabated is because management has discovered that efficient buildings offer the best remaining way to cut production costs says "*Architectural Forum*."

The editors explain in their current issue that with material costs still high and labor charges fixed at top levels, the competitive problem is reduced to a race to lower production costs through more efficient operation.

In many cases, tools and methods equally productive are in use by competing manufacturers. Therefore the only area left for improvement is by utilizing new buildings as potent cost-cutting tools rather than as just a shelter for an operation.

Different production problems call for individual solutions. However, broadly speaking, the choice lies between the special-purpose factory designed to fit a set of production operations like a glove and the flexible all-purpose building that can easily be adapted to a variety of production demands.

Specially designed space for special processes is a demand of heavy manufacturing, chemical and oil-processing plants. Such buildings must be shaped to follow the contours of the process going on within them, the editors explain. In such buildings, preplanning must be accurate and exhaustive to make the building work as efficiently as a precision machine.

In the case of light manufacturing industries, more flexible production space has evolved a single-story structure of wide bays that can handle a variety of processes, can take medium weight machinery anywhere on the floor, has high general illumination throughout and has a strip or grid plan for electrical service to any point from either overhead or beneath the floor.

This type of structure, the editors state, insures against early obsolescence when new production machinery or techniques are introduced and also raises the resale value of the factory.

The current issue of "*Architectural Forum*" carries many photos and plans of new industrial plants from National Carbide Company's Calvert City (Ky.) furnace building to Ford



THIS
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Yes, Modernfold accordion-type Doors make Sister's job easier. These "movable" walls are a real aid in these days of crowded school conditions. They make it possible to convert a single room into two classrooms in seconds or provide more effective group control.

For example, when two classes are pursuing different studies, this "movable" wall divides them. Each group has absolute privacy, with no disturbance to either. But when it is necessary for all to work together, Modernfold Doors are easily and quickly folded against the wall.

These fabric-covered, metal-framed closures are very successfully used elsewhere in the parochial school. Indeed, throughout the entire parish establishment! In the convent, rectory or church itself—either as a "movable" wall or as an attractive, space-saving closure for all types of openings. They're fabric-covered for beauty—metal-framed for rigidity and strength. Look under "doors" in your telephone book for the name of our installing distributor.

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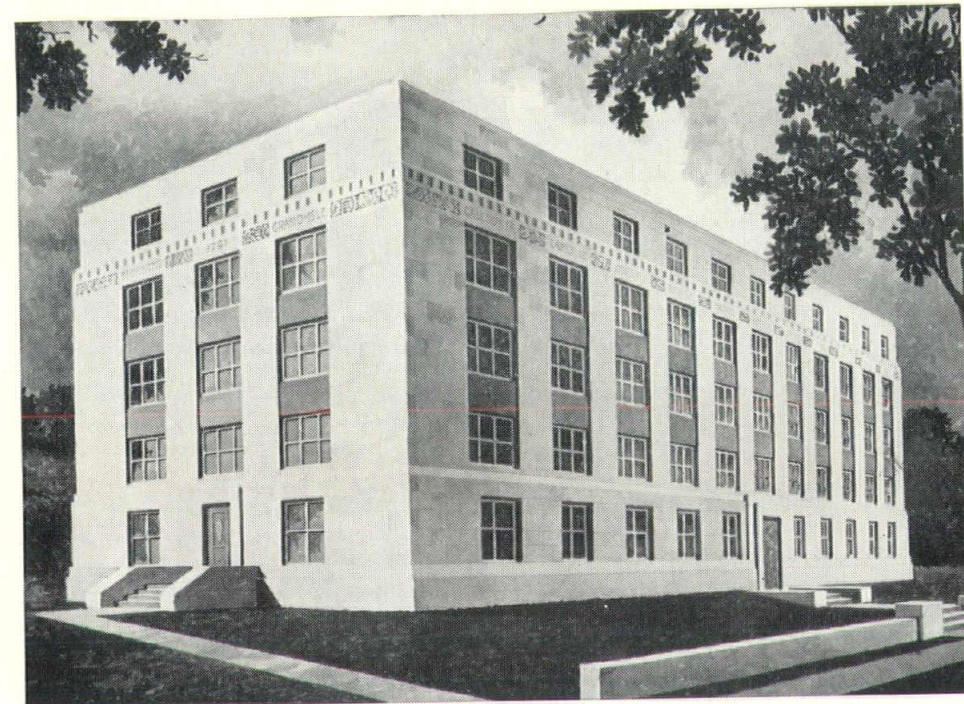
Motor Company's Cleveland engine plant.

Description of recreational facilities, cafeteria layout, use of color, illumination, atmosphere control and other vital services are included in this feature.

Among the factories reported on are the Detroit Tank Arsenal, the Nuclear Fission Laboratory at Rice Institute, Long Beach's new vertical incinerator plant, Fairchild Aircraft's 200-foot wide factory, General Electric's new turbine plant at Schenectady, the Norton factory at Worcester, Mass., and many others.

Convertible Schools Planned for Cities

Plans for a new type of city school building capable of being converted into office or industrial use, should the neighborhood change, are incorporated in the New York State Association of School Business Officials' newly published "School Research Thesis."



STATE OFFICE BUILDING

Montpelier, Vermont

Freeman, French and Freeman, Architects, Burlington, Vt.

The exterior wall presents a combination of plain surfaces with a highly decorative band below the top story, involving both lettering and carved figures. Only in Vermont marble could the architects find the requisite qualities of decorative marking in plain areas and proper texture for fine ornamental treatment.

For specifications and details
see Sweets File Architectural.

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Based on suggestions made last year by the editors of "Architectural Forum," students at the Pratt Institute, Brooklyn, proposed a model high-rise elementary school designed to allow greater classroom space per pupil in high-cost sites, yet easily convertible for other purposes if necessary.

One outstanding design in this 48-page portfolio of school designs, costs and construction information, calls for nine floors of classrooms, a separate gymnasium and auditorium on the ground level and a general purpose exhibition space at terrace level.

Air Conditioned Churches Swell Members

Increases as high as 50% in church attendance and collections are attributed to air conditioning, according to a recent survey reported in the current issue of "The Architectural Forum."

Over 5% of all U. S. churches with seats for more than 100 persons have installed cooling systems, most since 1950 and mostly in the Southern states. About 3% of these churches have refrigerated air conditioning. The First Baptist Church of Waco, Texas reports that after air conditioning, its membership grew so large that its yearly budget increased \$50,000.

CIVIL DEFENSE ASKS FUNDS TO BUILD, BLAST A-BOMB TEST HOUSES

The Federal Civil Defense Administration has requested funds to build houses and shelters for test explosions, according to the current issue of "House & Home."

"We want to know what will happen to the buildings Mr. and Mrs. America use," said FCDA Administrator Val Peterson. "This is something that has been sadly neglected."

Under the proposed program, two-story brick houses, both wall-bearing and brick-veneer would be tested. Some brick row houses also would be erected on the theory that such construction is prevalent in many target areas. Previous experiments were confined to two frame houses.

The FCDA also wants to equip the houses with all normal utilities such as gas, electricity and water.

PUBLIC HOUSING SLASHED

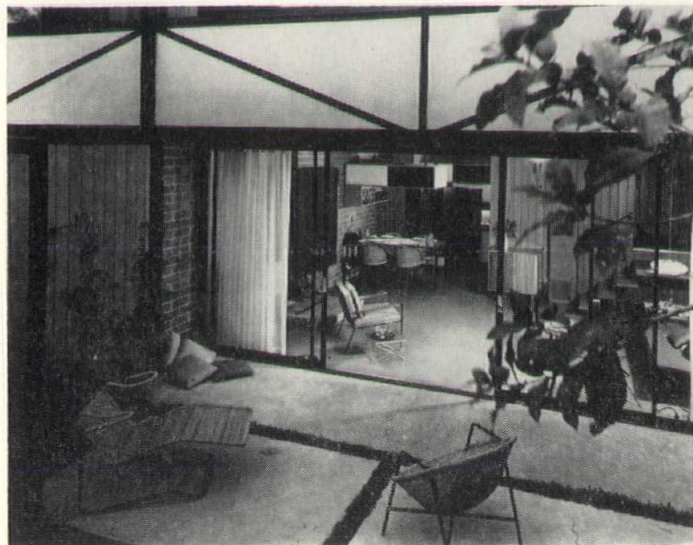
Public housing rooters have just received their greatest setback in years.

In slashing this year's public housing starts to 20,000, the new Congress has practically repealed the subsidized public housing section of the 1949 Housing Act. Last year the number of public housing starts was lowered from 50,000 to 35,000. The recommendation for this year was the same, 35,000 starts, pending evolution of the new administration's over-all housing policies. But Congress refused to even approve last year's restricted figure.

SLIDING GLASS DOORS AND WINDOWS

Frank B. Miller Manufacturing Company, Burbank, California, for the past four years has been manufacturing sliding glass doors and windows for residential, institutional and commercial installation.

These sliding glass doors are made in 23 standard types to accommodate $\frac{1}{4}$ inch plate or crystal glass. They are also available in three types of five standard sizes to accommodate dual glazing. Miller produces specialty doors such as Exterior Sliding, Wall Recess, Multiple Track and Flush Track.



Miller Doors are equipped with full-grip handles in solid brass for exterior and interior decoration. They are made of heavy 14 gauge welded steel construction and are bottom roller type with adjustable ball-bearing grooved brass rollers plus stainless steel roller track.

Miller Doors incorporate several exclusive features, including mechanical weather seal and double acting top guides.

Mr. Jack Miller, Sales Manager, informs us that their Engineering Department constantly keeps abreast of architectural trends to produce a door that can be installed easier and more quickly. This policy has made the Miller Door very popular with architects throughout the country.

There is an illustrated catalog available showing different types of construction and installation features. One will be sent immediately to Architects upon request by writing Frank B. Miller Manufacturing Company, Inc., 3216 Valhalla Drive, Burbank, California.

CONFERENCE ON PORCELAIN ENAMEL IN THE BUILDING INDUSTRY TO BE HELD AT THE NATIONAL ACADEMY OF SCIENCES

The uses of porcelain enamel as a large-scale structural material will be the subject of a two-day Conference to be held November 12 and 13, 1953 at the National Academy of Sciences in Washington. The Conference is under the joint sponsorship of the Porcelain Enamel Institute and the Academy's Building Research Advisory Board and will be conducted by the BRAB Institute.

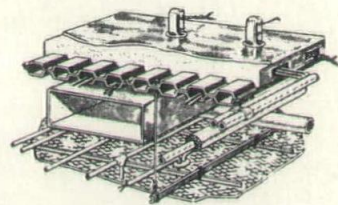
Four major sessions are planned for the meeting, beginning with an analysis of chemical and physical properties of porcelain enamel and carrying the discussion through to the architectural applications of this material, its engineering properties, methods of sealing and insulating it, and its use in combination with other materials.

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Have

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Q-FLOOR

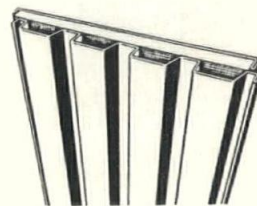
two men can lay 32 sq. ft.
in 30 seconds!

These are steel subfloors. They are installed as fast as the frame is erected. Therefore they form immediate and permanent platforms for all subcontractors. By properly organizing the work, a contractor can cut 15 to 20% off over-all construction time. The architect saves a great deal of drafting time.

The steel cells of Q-Floor become raceways for all electrical systems. An electrician drills only a small hole and installs an outlet on any six-inch area of floor in a matter of minutes. Desks, business machines and partitions can be located with complete freedom, after tenants move in.

and

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Q-PANELS

50 sq. ft. of insulated,
finished wall in 9 minutes!

Q-Panels are only 3" thick but have greater insulation value than a 12" masonry wall. They arrive at the site cut to fit and are quickly attached to the steel frame.

The inside surface is a metal sheet, then comes insulation, then the outer skin of fluted aluminum, Galbestos, stainless or metal-coated steel, depending upon the utility and architectural requirements.

H. H. ROBERTSON CO.

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INSULATING—
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These Advantages Make

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- Good Insulating Value
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Here's a lightweight, concrete roof tile that can be easily handled and installed, cutting costs. Easily sawed and fitted. Made of Zonolite Vermiculite, a 100% fireproof mineral, ZONATILE will not burn, rot or decompose. Forms ideal roof deck with built-in insulation and fire safety in ONE application. Two lengths available, gives wide freedom of design. Thousands of feet already in use. Mail coupon for booklet!



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Zonolite Company, Dept. OA-93
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Please send free ZONATILE Booklet with full details about this lightweight roof slab.

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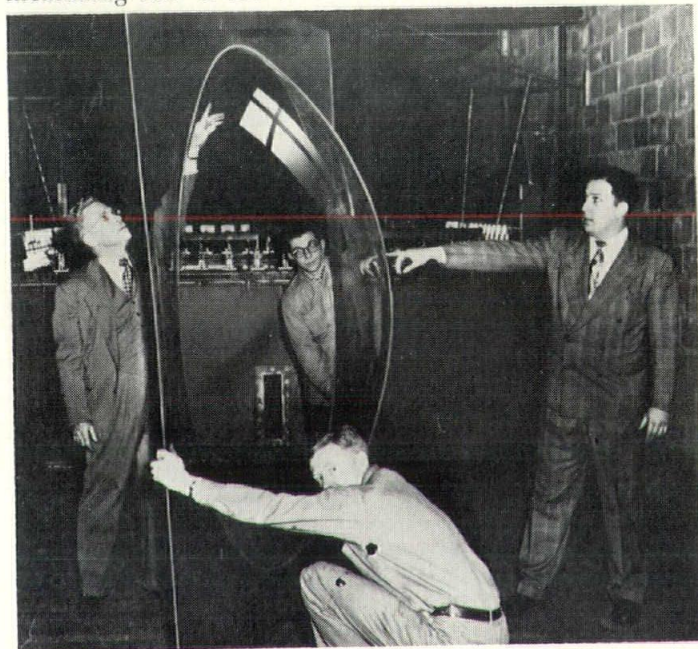
A final session will be devoted to a review of practical problems and their solutions with special emphasis on the economic factors involved in the use of this material. Hospitals and schools, sales structures, houses and industrial buildings will be considered separately.

Leading technicians, architects, contractors and industrial leaders in this field will be represented at the meeting, and it is anticipated that many technologists and industrial people from other building fields will register interest in this partially unexplored area.

Additional information on the Conference can be secured by writing the Building Research Advisory Board at 2101 Constitution Avenue, N. W., Washington, D. C. A complete program with speakers, moderators and subjects indicated will be sent to those who inquire.

KING SIZE PLASTIC DOMES

An important new first in plastics fabrication was recently achieved by Wasco Flashing Company of Cambridge, Massachusetts, makers of Wascolite Skydomes. The company's intensive research and preparation was crowned with success as a gargantuan bubble, perfect in every respect, was formed from a sheet of acrylic plastic measuring 100" x 100".



This giant dome, the first of its size ever created in the building field, was designed especially for use in the new extra-large Skydome which is now available for all daylight applications. The Skydome unit, consisting of the acrylic bubble set into an extruded aluminum frame, provides bright, balanced illumination from overhead. The welded frame is so engineered that the unit is maintenance-free and solves problems of contraction and expansion, and condensation.

Now, thanks to the special equipment and techniques developed and perfected by Wasco, the size of Skydomes is limited only by the size of the cast acrylic sheets. This material, formerly in short supply due to defense requirements, is available in sizes up to 100" x 120". Thus, architects and industrial designers can now include in their planning Skydomes of special large sizes. All Skydomes are available in three basic shapes—square, rectangular and circular.

20th ANNUAL A.S.O. CONVENTION
Youngstown — October 14, 15, 16, 1953

THE OHIO

NCARB

The National Council of Architectural Registration Boards, an organization made up of and controlled by the architectural registration boards of the several states, is the quasi-official authority recognized by The American Institute of Architects and the Associated Collegiate Schools of Architecture as being qualified to establish a proper standard of examination for admission to practice the profession of architecture.

The American Institute of Architects favors an architects registration law as a means of protecting the interests of the public and of elevating professional standards. Since the duty of the state is to protect its citizens, it becomes its duty to see that those who claim the right to practice architecture are both trustworthy and technically equipped to render such services.

"A doctor deals with the life of his patient, while an architect may undertake to design a building where the public congregates, in which case the safety of many people may be involved," a Council statement points out.

While most of the subjects of architectural examinations have to do with the strength of materials, safety measures, health and sanitation, the element of design is also considered. A college degree from an accredited institution of higher learning is generally accepted for examination, background and training.

"Our laws, as a rule, do not permit the enactment of measures to define the character of design," the statement continues, "because design is largely a matter of one's own personal taste. However, if no control whatever were exercised, an incompetent designer would be permitted to foist on the public eyesores that would stand generations for all to gaze upon. Our culture, our way of life and history are wrapped up in the buildings we inhabit."

The purpose of the National Council of Architectural Registration Boards is to serve as a clearing house among the various states, with reference to applications for reciprocal transfer of registration, to establish professional standards, to establish and determine the standing of registrants and to prevent those practitioners who have dissipated their standing in their own communities from going elsewhere and imposing on the public. This standing is rated largely by the way in which an architect is regarded by his professional compeers. High regard may be evidenced by direct testimony, by election to important posts, by honors conferred or by election to membership in professional societies. Unavoidable regard may be indicated by expulsion from such societies, refusal to join them, honors denied, or by direct testimony.

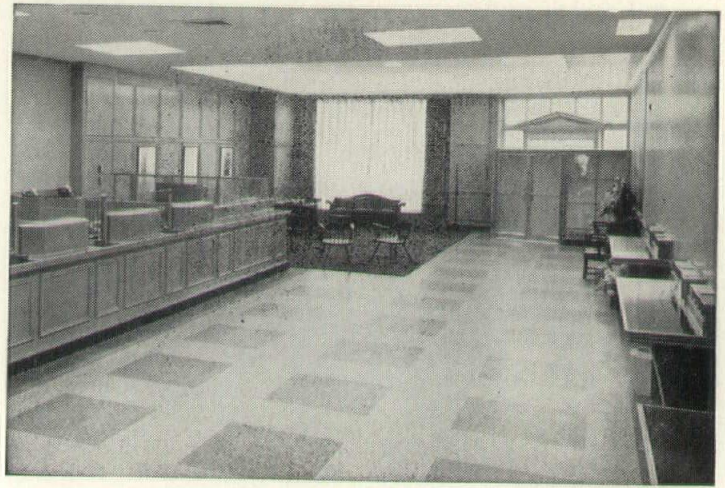
"Professional contacts are necessary to well-rounded professional equipment," the statement concludes. "The architect who neglects or refuses to identify himself with the established societies of his profession is open to the imputation of being afraid to meet his equals on a common ground. Such men are very likely to be behind the times in knowledge of current practice. The same imputation follows if one does not keep informed on the material presented by the press."

NCARB officers are: Charles E. Firestone F.A.I.A., President, Canton, Ohio; Fred L. Markham, 1st V-Pres., Provo, Utah; Bartlett Cocke, 2nd V-Pres., San Antonio, Texas; Edgar H. Berners, 3rd V-Pres., Green Bay, Wis.; William L. Perkins, Sec.-Treas., 736 Lucas Ave., Chariton, Iowa.

Executive Committee: Aforementioned officers and Roger C. Kirchoff, Milwaukee, Wisconsin.

Council Board of Review: Walter F. Martens, Chm., Charleston, W. Va.; Lucius R. White, Jr., Baltimore, Md.; Ralph Edward Winslow, Troy, N. Y.

ARCHITECT



This new Shaker Square office of The National City Bank of Cleveland was decorated by Irvin and Company, Inc., to provide maximum customer comfort and service. Special care was given to the lobby appointments. The counters and lower portion of the walls are paneled in pale oak with upper walls in sage green.

The National City Bank of Cleveland was founded in 1845 in a small building on West Superior Street. Today, eleven National City branches serve all parts of greater Cleveland.

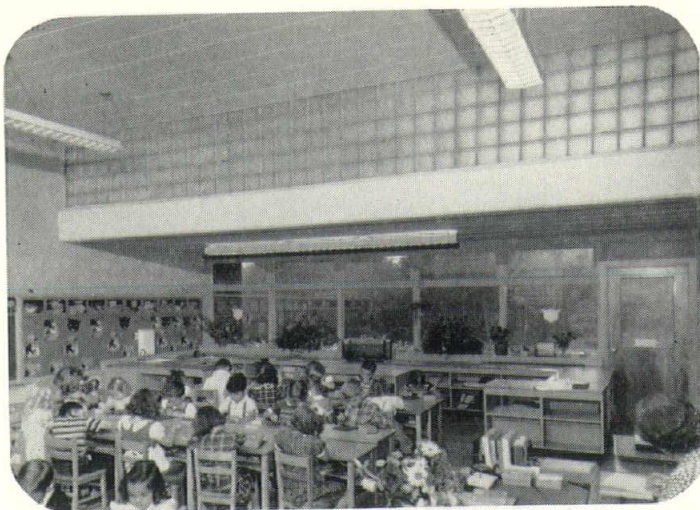
107 Years Old and Still Growing

Irvin and Company, consulting with this bank's architects, Garfield, Harris, Robinson & Schafer, designed all interiors of their new branch bank on Shaker Square. Perhaps we can serve you in a similar capacity.

Irvin and Company also designed and had painted the mural showing the site of the original bank and pictures of early Cleveland, which decorate the lobby walls.



IRVIN and COMPANY
INCORPORATED
INTERIOR DECORATIONS
Shaker Square



School Saves \$15,000 With Flexicore System

Compared to the other fire-resistant, structural systems, Flexicore cut cost of this Massachusetts school by \$15,000. Standard concrete units clear-spanned 26' classrooms without intermediate supports. Exposed underside of slabs required only painting to finish; ceiling plaster was eliminated. Hollow cores of Flexicore floor slabs served as air ducts for an economical split-system panel heating.

Slabs Reduce Job Costs

Flexicore's fast, simple erection reduces on-the-job time and labor costs. Slabs are precast to load specifications in exact lengths needed. Rapid placement gives other trades an immediate work deck above and frees area below. For full information, write any of the three Ohio manufacturers listed below.

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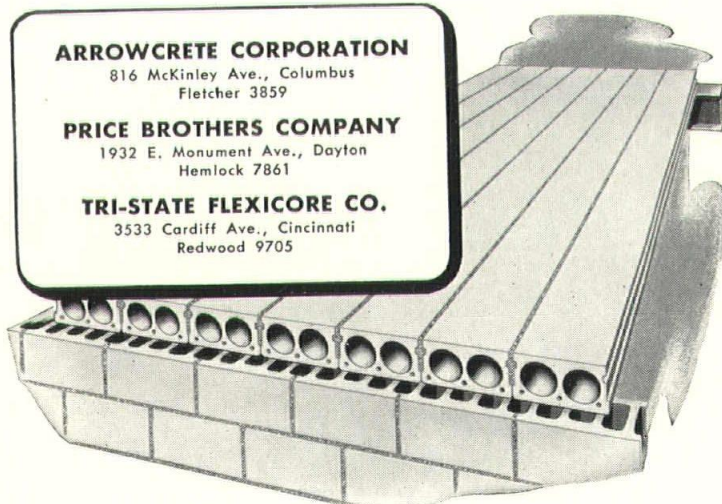
816 McKinley Ave., Columbus
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OUR PRESIDENT'S MESSAGE

The Labor Day week end is over; the National Air Show has ended and the universal doubleheader has determined the parties to the World Series. But now we look forward to football and Thanksgiving.

This morning the air was a crisp 47° and the russet leaves of the Beech are already carpeting the ground. 'Tis the first day of school and as I drove in to work I saw the first graders, hand-in-hand with Mother or Big Sister, going their apprehensive way. My memory of that first day escapes me but I get a borrowed remembrance from seeing the boy with the slicked black hair and the carefully pressed pants and shirt. His is much to look forward to while ours is of passing interest.



ROLLIN L. ROSSER

This "passing interest" of the moment is our regular annual convention to be held in Youngstown on October 14, 15 and 16 at the Pick-Ohio Hotel. We do not approach it with "schoolboy excitement" but perhaps with a blase' or non-committal attitude. Conventions are an obsession with Americans and though we do nothing for a year yet we must have a convention. But to me the value of such a melee is something that is catalytic in its effect and intangible in its result.

I have a friend here in Dayton who has been in the tile business for a long time and has shown clients thousands of color schemes for one purpose or another. Recently he told me of an experience with a man and wife who came in to make a selection for the bathrooms in their new home. It being a bright and glary day it was not unusual that the husband was wearing dark glasses. My friend proceeded to set up different arrangements of the colored tile and as they discussed them the husband made running comments about how 'I don't like that color' or "I feel that that is better." Twenty minutes or more had passed when my friend noticed the husband "feel" the face of his wrist watch and then he realized that the man was blind.

You may not get much out of a convention that is tangible in the way of a prize, an award or a gift, or something of monetary value, but you can get the "feel" of your profession from the association with others who feel and act your way.

Of course, it will take some time and some money but plan to attend this year and I don't believe you will be disappointed. The committees are doing an excellent job, a good program is assured so it is up to you, the members, to do the rest. And be sure to bring the "little woman" along. There's a special program set up for her entertainment.

—ROLLIN L. ROSSER

NEW ARCHITECTS LAW IN COLORADO

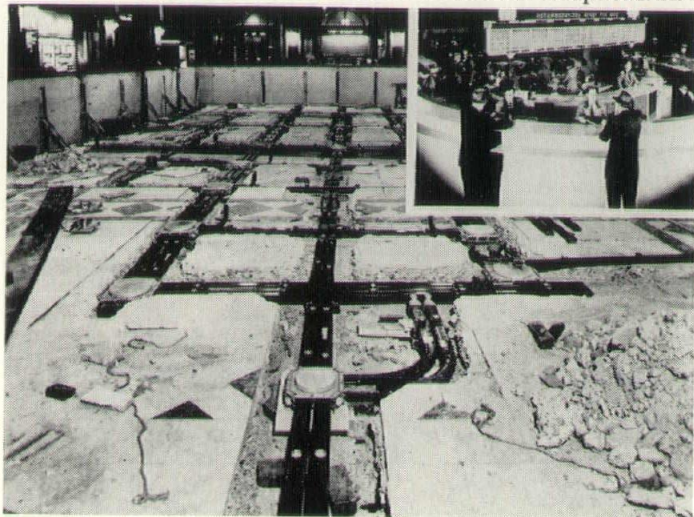
Colorado's legislature enacted a new architect licensing law March 28, the last day before a two year adjournment. It was designed to remedy the faults of a 44-year old law which had been held unconstitutional by the courts.

It was still not certain whether the new law would permit the certification of 12 applicants whose rejection led to the suits. An attorney for several of them said the new law was so vague it might be unconstitutional, too.

THE OHIO

WIRING FOR ELECTRONIC WIZARDRY

"Wiring for electronic wizardry" is what Pennsylvania Railroad spokesmen call the Nepcoduct installation at their new Pittsburgh Ticket Sales and Service Bureau, shown in insert. The railroad's electricians and engineers installed National Electric Products Corporation's



underfloor electrical raceway systems to provide conductors for all the bureau's power and communication apparatus. Laid in a 25 by 75 foot area, the steel Nepcoduct installation provides convenience outlets at the floor surface for business machines, electronic information finders, ticket facsimile transmitters, lighting, and communications devices. According to the electricians, the system can be easily expanded because of the surface connections for additional raceway systems.

WANT TO KEEP YOUR HOUSE COOL?

The Small Homes Council at the University of Illinois has just compiled an 8-page circular on how to do it.

"Keeping the heat out of the house is the most important step," according to the bulletin which was prepared by engineers and architects. To accomplish this, they recommend controls on the outside of the house to keep the sun off walls, glass, and roof. They suggest insulation as a means of retarding flow of outdoor heat through walls and ceiling.

"Major walls and glass areas should be on the south where they can be protected from the sun, or on the north where effects of the sun are negligible. Walls and glass areas should be at a minimum on east and west since these walls are more difficult to protect due to low angle of the sun in early morning and late afternoon."

Sun-controls to keep walls and glass cool include overhangs, trees and plantings, windows louvers or blinds, awnings, louver-type insect screens, and light colors. Light-colored venetian blinds are 70 per cent effective in reducing heat load when they are outside the house, but only 40 per cent effective when inside the house. Dark-colored blinds when used inside are only 15 per cent effective. A light-colored inside roller shade, fully drawn, is 55 per cent effective in reducing heat load; a dark shade only 20 per cent.

For summer comfort, the ceiling is the most important part of the house to be insulated, the Small Homes Council says. It urges that the space under the roof be adequately vented to allow hot air to get out.

Night air-cooling with fans reduces the temperature within the house more rapidly than merely opening windows, louvers, and doors. When the house is cooled at night, it enters a hot day at much lower temperature than

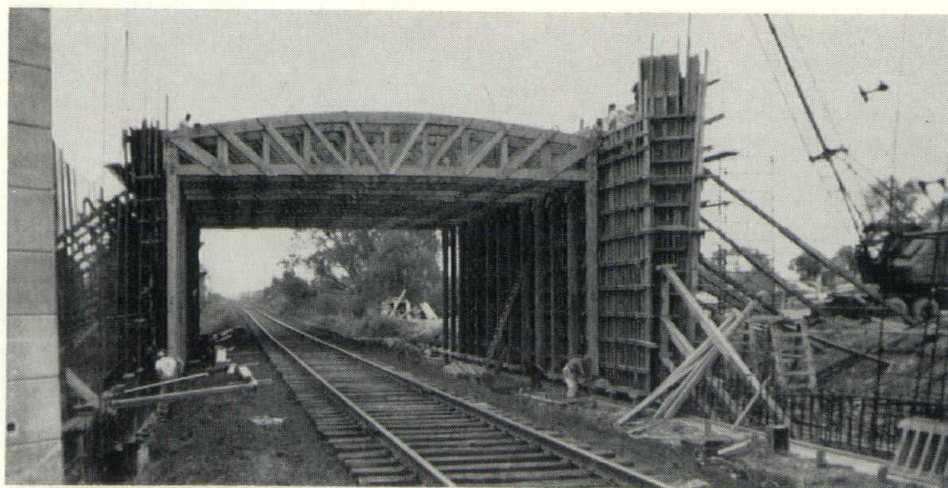
ROOF TRUSSES

by

**CARTWRIGHT &
MORRISON, INC.**

HOLCOMB, NEW YORK

Phone 48



Falsework trusses, for New York State Throughway bridge over Railroad line north of Syracuse, New York. Nineteen trusses, of 43 ft. span, on 20 ft. columns, supported 3000 lbs. of concrete per linear foot of truss during continuous pour. After one half of concrete bridge was poured, false work was moved as a unit to second position. Trusses designed, fabricated and assembled by Cartwright & Morrison, Inc.

if it still stored heat from the previous day.

Air-conditioning is suggested where the desired comfort cannot be obtained solely by house design and ventilation. The cooling equipment can be a separate unit or it can be combined with the heating equipment—either warm-air or hot-water heat circulation systems.

In planning for air-conditioning, the council suggests checking gas and electric rates; local regulations of utility companies; local building codes and ordinances regarding water usage for air-conditioning; and the capacity of the electrical system of the house.

—Reprinted from *Charette*

THE OLD MAN

The "Old Man" came into the office just as a surveying party was starting out. "When you boys come back," he said, "I will show you a translation of an Egyptian document, written on papyrus, about 4000 years ago. It is a report to the Pharaoh of that time."

This was the translation of the document.

"Know, Oh mighty Pharaoh, that I have made inspection of the works on the Upper Nile. I found the builders to be a most strange breed. First cometh men with a three-legged prong with which they made divers observations. When they approach a village the maidens fleeth and the villagers bewail exceedingly because they always aim the prong at a house, saying, "it must be moved," although the desert stretcheth for miles around, dry and desolate. Sometimes, the prong men drive little stakes in the ground. They play a game and wait until someone knocks down one of the stakes, and prong men jump in the air and tear their hair and call on Ra and Osiris and Isis and Set and Horos and all the lesser gods, and they becoming exceeding worth. All

about a little stick. They also make many hieroglyphics, many of which they do not understand.

"Then cometh the contractors. They are a class that have many possessions and ride in fine chariots, but they easily run to bitter tears, and they sorely runneth down the work to be done, to each other, that they may make the other afraid and he add much expense to his calculations.

"Then cometh the material men clad in fine raiment and the maidens meet them with gleeful smiles, as they have something magic called an 'expense account.' They are all worshippers of the Sacred Bull. Every morning they chant 'O Sacred Bull, keep us full because only because of thee we continue to live.'

"Then cometh the letting of the contract. Whereat one contractor draws the prize, and the rest of the Contractors beat their breasts and pour ashes on their heads, and say with a mighty shout, 'He can't do it for the money.' Always have they said this, and always to the end of time will they say it, even until the stars grow old.

"But the low bidder he smiles and is pleased with himself, wise in his own conceit, and he hunteth up the three prong men and taketh them out to dine with him, and handeth the dinner check to the material men."

(Reprinted from the *New Hampshire Architect*)

BE SURE TO ATTEND THE
"ICE-BREAKER" PARTY
Wednesday Evening, Oct. 14th
at the
Youngstown A.S.O. Convention

*Mr. Architect: Never underestimate
the power of a woman—*

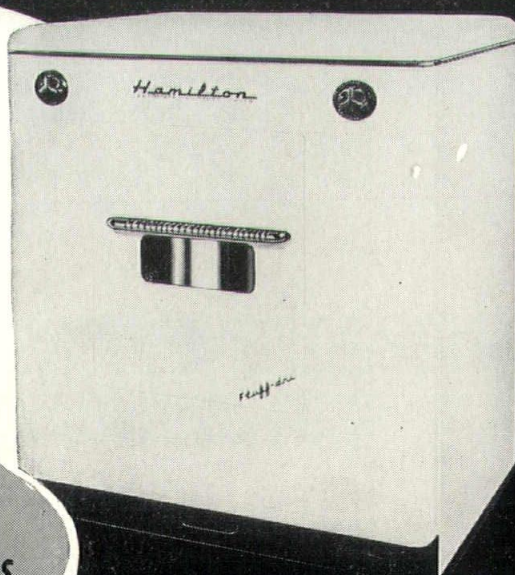
or the selling power of
Hamilton the original
automatic CLOTHES DRYER
and now its companion piece
the **Hamilton WASHER**

... a satisfied woman is a satisfied client

... smart women want Hamilton because

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- Hamilton saves work, time, clothes
- Hamilton gives "Sunshine-and-Breeze" freshness
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Hamilton
AUTOMATIC CLOTHES WASHERS
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SUN-E-DAY
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TRENDS IN HOME BUILDING

During National Home Week in Wichita, Kansas a new "Trend Home" was exhibited by the Coleman Co. and a survey of "Home Trends" was made by the company.

Highlights of the trends established by the survey, as mentioned, included the following:

One-story Construction — 78.5 per cent of those polled said they preferred one-story homes.

"Ranch-Type" Architecture — 58.2 per cent said they wanted ranch-style homes.

Picture Windows — 84.2 per cent wanted them, and the trend is growing toward having picture windows on the side or back of the house, overlooking an enclosed yard area.

Outdoor Living — 77.3 per cent wanted a screened-off or fenced-off space for patio, play yard or work yard.

Heating System — 72.2 per cent of those polled said they wanted forced warm air heating.

Summer Cooling — 45.3 per cent wanted summer cooling. Surprisingly, this interest was just about as high in the northern states as in the south. 95.7 per cent favored summer cooling operating through the central forced warm air system as against room or cabinet units.

Three Bedrooms — 57.1 per cent of those polled wanted three-bedroom homes.

Open Planning — The trend is definitely toward combination rooms such as dining-living areas, kitchen-utility combinations and the like. Judicious location of furnishings, appliances, fixtures and room dividers gives open access to all functions of the living and working areas without undue encroachment of one on the other.

91.1 per cent of those polled wanted such combination rooms.

Storage Space — Greatest number of complaints from new home owners dealt with inadequate storage facilities, despite the fact that 57.7 per cent of these people had five or more closets.

Utility Room — There is a growing trend toward a ground-floor utility room for laundry equipment. 60.3 per cent of those polled wanted such a room.

Carport — Though the carport is a relatively new idea, it is gaining in the north as well as the south. In the Coleman survey, surprisingly, twice as many people in the North said they wanted a carport as had one.

Exterior Color — While white is still the overwhelming favorite, there is a growing trend toward use of colors. Only 30.8 per cent of those surveyed live in colored homes. 40 per cent wanted them.

Roof Style — Although "flat-top" construction has aroused considerable attention, the Coleman survey disclosed it has very limited acceptance. 91.9 per cent polled wanted a gable roof with moderate pitch and a functional attic.

Expandable Home — A total of 67.1 per cent of those polled said if they were building a new home they would want it planned so an extra room could be added later at minimum cost.

To Be a Better Architect—

Attend the A.S.O. Convention

Hotel Pick-Ohio

Youngstown, Ohio

October 14, 15, 16, 1953

It was done in PORCELAIN ENAMEL



International Machinists Building before remodeling

The owners required not only the modernization of the building inside but a colorful front. This was done in a permanent color and of an enduring nature, where maintenance was cut to a minimum by the use of

Architectural Porcelain Enamel

THE R. L. WURZ CO.

Architectural Porcelain Enamel

Architect John W. Little of Cleveland, wanting to renovate the antiquated exterior of the International Machinists Building, 2906 Euclid Avenue, Cleveland, Ohio, chose Architectural Porcelain Enamel.

➡ The above building after remodeling—showing beautiful effect of use of Architectural Porcelain Enamel



1836 EUCLID AVE., CLEVELAND 15, OHIO

Telephone CHerry 1-7830

THE "ICE BREAKER" PARTY

One of the jolliest parties of the 20th Annual Convention in Youngstown will be the "Ice Breaker" party on Wednesday night, October 14th. Those who attended the Columbus Convention in 1951 will remember the "Ice Breaker" party there and the plans for this year's party surpass even that hilarious affair. Its an informal party.

The purpose of the "Ice Breaker" is to get everyone acquainted with each other, the architects and their ladies, the exhibitors and visitors, all mix in friendly fashion on a social level and before the evening is well along first names and nick-names are the order of the evening. Fun and dancing, music and refreshments—everything that goes to make up a real party have been arranged for. Be sure to make your plans to attend this "Ice Breaker." It is one of the most pleasant of all of the many pleasant affairs planned for the convention. It will give you a chance to let down your hair and really enjoy yourself. It will give you an opportunity to meet your fellow architects and supply men on a level when they too have forgotten the cares and worries of work and responsibility. You'll be surprised to find what "real guys" these men are under that calm dignity you usually associate with them. So for the time of your life—plan NOW to attend the "Ice Breaker" on Wednesday night, October 14th. It is sponsored by the Canton Stoker Co. of Canton, Ohio.

**A.S.O. 20th ANNUAL CONVENTION
HOTEL PICK-OHIO, YOUNGSTOWN
OCTOBER 14, 15, 16, 1953**

NO MORE GARBAGE COLLECTIONS

They didn't want garbage cans on their streets, so the residents of Aurora, Colorado, voted recently to have electric garbage disposers installed in all new homes, restaurants and other food service establishments.

Aurora thus joins the list of pioneer cities with vision to enact such legislation that not only requires garbage disposers in new construction, but permits owners to select the garbage disposer of their choice on the basis of individual preference as to brand and type.

The only restriction is that the buyer's choice must meet the minimum qualifications set forth by the ordinance as enacted. Aurora has a population of more than 25,000 and is primarily a city of homes and small businesses.

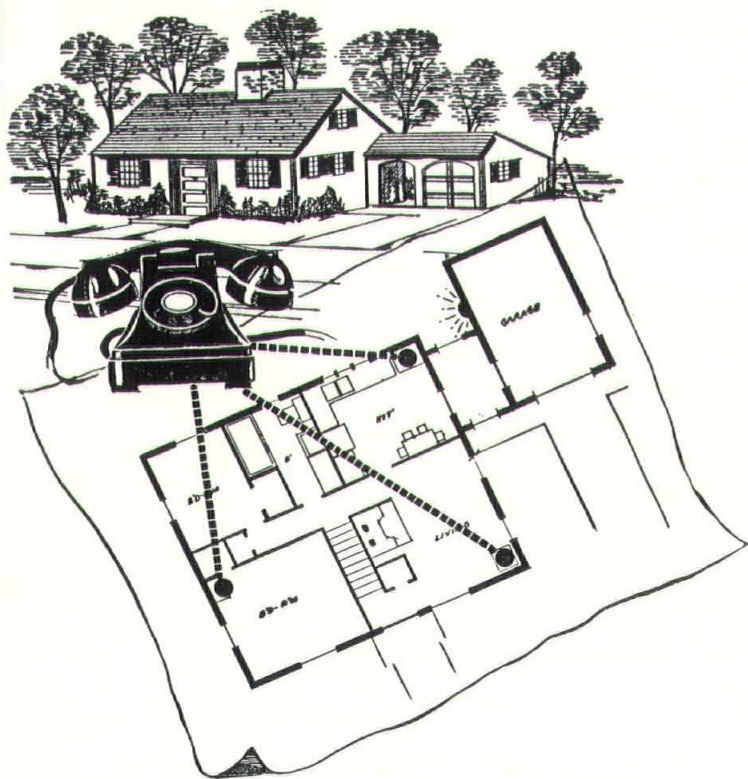
Residents are employed, for the most part, by Denver concerns, by nearby Air Force and Naval Air installations, or by the large Army general hospital in Aurora.

Prior to submitting the garbage grinder ordinance to the citizens for a vote, Mayor C. E. Tupps of Aurora, appointed a committee on garbage disposal which studied the problem for more than a year. The objective of the committee, as outlined by Mayor Tupps, was to recommend the best method to the city council of eliminating garbage so that an ordinance could be written that would comply with the needs of Aurora's citizens.

In essence, those needs were: (1) to eliminate garbage cans from the streets; (2) generally improve the beauty and sanitation of the city; (3) reduce the incidence of disease by an expected lower fly, vermin and rodent count; (4) prevent increase of garbage collection costs.

"With this ordinance, we can expect a lower fly count and a lessening of other nuisances and the ordinance

MR. ARCHITECT . . . MR. BUILDER



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● Concealed telephone wiring is an important feature that adds an extra selling point to new homes. Many home buyers ask for this nationally advertised feature in new home construction.

Most important, concealed telephone wiring is a BIG extra feature that adds little to your costs. Ohio Bell's Architect and Builder's Service will help you plan telephone outlets and concealed wiring at no charge. Call our Business Office and ask for this service.

**THE OHIO BELL TELEPHONE
COMPANY**



will probably lead to a smaller incidence of disease," said E. F. Lander, tri-county Aurora district sanitarian.

The Committee was able to use the studies made by neighboring Denver, which has been investigating means to remedy the garbage collection problem for several years. In addition, the committee obtained reports from other cities which had direct experience in attempting to improve the garbage collection problems, had made studies themselves, or had such a large percentage of disposers installed they were virtually "garbage-free."

A survey of these garbage-free communities disclosed that disposers were satisfactory to the owners, did not clog plumbing or sewer lines, were self-cleaning and odorless, and more than reasonably free from service call-backs.

"The acceptance of our out-moded garbage collection is no longer necessary with the advent of the garbage disposer. We are sure that the use of the garbage disposer will aid in keeping the sewer lines clean," said Paris Guy, superintendent of water, sewage and sanitation for the city of Aurora.

Jim Larch, city engineer said: "The pick-up system is very objectionable and a thorough study of garbage disposal indicated that the modern garbage disposer was the answer."

The committee ruled out the elimination of garbage by land-fill, central garbage grinder, central incinerator or hog feed method because each required collection by truck, thereby going against the first wish of Aurora's citizens: to keep garbage cans off the streets.

"It was the committee's feeling that the sanitation factor must be upgraded, and the only instrument avail-

able that could do a real job is the modern household garbage disposer," stated C. H. Dickerson, Aurora city councilman and a member of the Mayor's committee on garbage disposal.

The Aurora ordinance makes no attempt to dictate the brand of garbage disposer that shall be used. When this point was established, full cooperation with the local plumbing contractors was obtained. The ordinance, as approved by the voters of Aurora, therefore follows the terms of the general proposal adopted by the National Association of Plumbing Contractors at their 1953 convention which declared against socialization of garbage disposers.

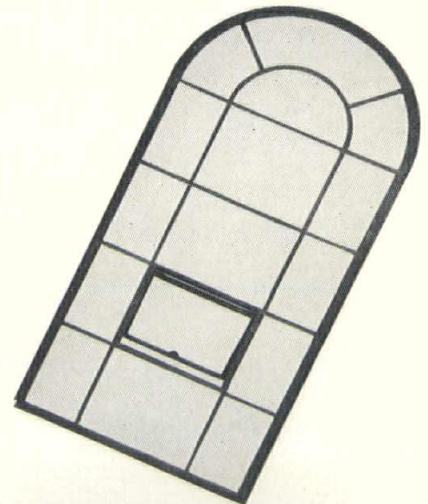
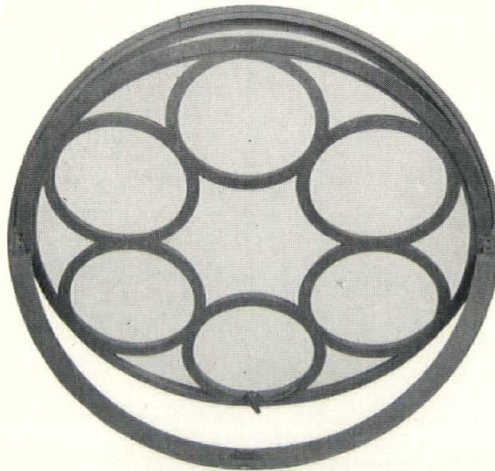
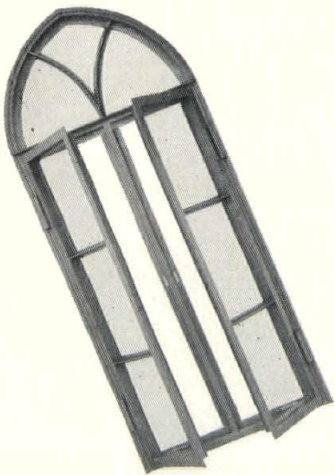
Aurora does not intend to become a garbage-free city overnight, but believes this goal can be attained over a period of years.

As Mayor C. E. Tupps stated: "The first step toward a garbage-free city is the ordinance requiring garbage disposers in new construction, restaurants and institutions. The garbage problems in Aurora was becoming a serious one because collection of garbage was unsatisfactory even though the garbage collector was doing as good a job as was possible.

"Who wants to be a garbageman anyway? I can foresee that Aurora will be a garbage-free city within 10 years time."

**Aurora, Colorado, Ordinance Requiring Garbage Disposers in New Dwellings and Restaurants
Ordinance No. 572**

An Ordinance amending Ordinance No. 375, as amended, regulating and providing for the installation and operation of garbage grinders.



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Be it Ordained by the City Council of the City of Aurora, Colorado:

Section 5581½. The following provision is repealed and deleted: "There shall be a garbage grinder installation provided in the sink waste line 11" above finished floor."

Installation of garbage grinder: All dwellings constructed and all new restaurants or other permanent commercial type buildings containing kitchens hereafter shall provide a mechanically operated garbage grinder for each family unit. Such garbage grinder shall be so designed:

1. That it will operate with water flowing into the grinder and through the sink drain line.
2. That it shall discharge wastes at a reasonably uni-

form rate, in fluid form which shall flow readily through an approved trap, drain line or soil line in a manner which will prevent clogging or stoppage of drain line.

3. That it shall be of such construction and have such operation characteristics that at least 40% of all material discharged from it shall pass a No. 8 sieve, at least 65% shall pass a No. 3 sieve, and 100% shall pass a ½-inch screen.

4. That it shall be self-scouring, with no fouling surfaces to cause objectionable odors.

5. That it shall be free from electrical or mechanical hazards.

6. The final decision as to the sufficiency of the designs to meet these requirements shall rest with the Aurora Building Department. (Continued on page 52)

ALKYD SANI-FLAT

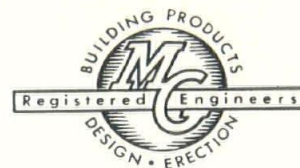
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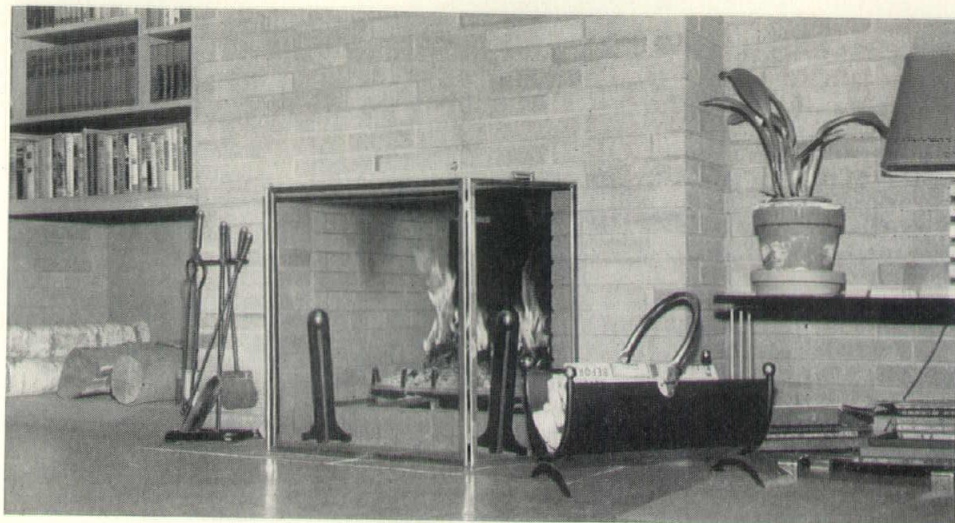


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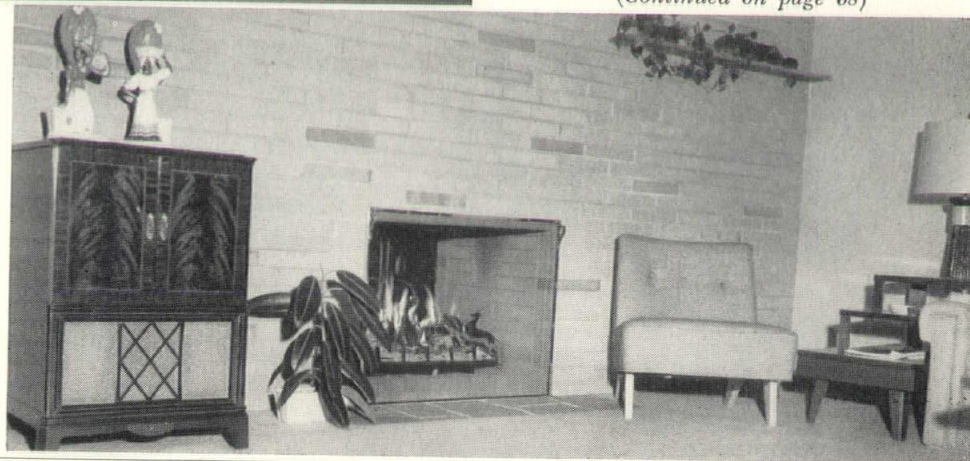
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MODERN FIREPLACES ADD MODERN TOUCH

By JAMES H. BURRIS, Architect
Marion, Ohio

When I was engaged to design a home for the Mackeys of Grandview Heights, Columbus, Ohio which family included two daughters, I had to take into consideration the fact that they had, for the past twenty years, owned and appreciated contemporary furnishings which they would use in their new home. They wanted their home to fit their modern thinking in architecture.

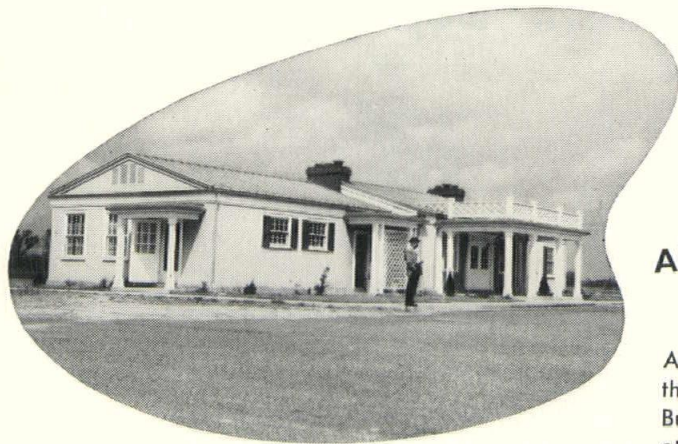


The living quarters of the house were designed around the owners' theory of convenience and privacy by the means of a large recreation room separated from the living room by a masonry wall with a two way fireplace and a barbecue grill located in the recreation room.

The utility room was located adjacent to the kitchen on the first floor with the basement being used for equipment and storage.

Mr. and Mrs. Mackey's desires were to have their bedroom on the first floor with high windows for privacy and one wall of closets and built in dresser space with an adjacent bathroom, while their daughters had their

(Continued on page 68)



G. Anthony Johnston, Registered Architectural Engineer, Paducah, Ky.

J. R. Barley, General Contractor, Mayfield, Ky.

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Armco Steel Buildings supplied the basic structure for this Mayfield-Graves County Airport Administration Building, Mayfield, Kentucky. By skillfully combining other materials to the Armco Structure, the architect achieved an attractive Colonial design—within a restricted building budget.

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7. That it shall be connected to the drain in compliance with the plumbing code, and be free from any cross-connection.

8. That the entire installation shall comply in all particulars with provisions of the plumbing and electrical code of the City of Aurora.

Emergency Clause. That an emergency exists and the immediate passage and adoption of this Ordinance is necessary for the public peace, health and safety, and Therefore, the same shall be in full force and effect five days after final publication hereof, as provided by law.

Passed and Adopted this 6th day of July, A. D. 1953.

C. E. Tupps, Mayor

Attest: Vernon Wildman, City Clerk

**WE'LL SEE YOU IN YOUNGSTOWN
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1953 A.S.O. CONVENTION PROGRAM

WEDNESDAY, OCTOBER 14:

10:00 A.M.—Executive Board Meeting

11:00 A.M.—Registration opens

1:00 P.M.—Tour through Steel Mill

6:30 P.M.—A.S.O. Executive Board and Wives Dinner

9:00 P.M.—Ice Breaker

THURSDAY, OCTOBER 15:

9:30 A.M. to 11:00 A.M.—Business Session. Rollin L. Rosser, President, presiding

11:00 - 12:00 Noon—View Exhibits

12:00 - 1:15 P.M.—Luncheon. Frank F. Smith, President, Eastern Ohio Chapter, presiding

Mayor's Welcome

Speaker, Perle L. Whitehead, Cincinnati, Deputy Regional Executive, Boy Scouts of America

1:30 to 2:30 P.M.—View Exhibits

2:30 to 5:00 P.M.—Public Relations Workshop. Raymond S. Kastendieck, Director, Great Lakes District, A.I.A., Moderator

5:00 to 6:00 P.M.—View Exhibits

EVENING—"CLAIR W. DITCHY NIGHT"

6:30 P.M.—Cocktails

7:00 P.M.—Dinner. John W. Hargrave, First Vice-President, A.S.O., presiding
President's Message. Clair W. Ditchy, Pres., A.I.A.
Minstrel Show

FRIDAY, OCTOBER 16:

9:30 A.M. to 11:00 A.M.—Business Session. Rollin L. Rosser, presiding

11:00 to 12:00 Noon—View Exhibits

12:00 Noon—Luncheon. Melvin C. Frank, 2nd Vice-President, A.S.O., presiding

Speaker, George Bain Cummings, Secretary, A.I.A.

1:30 to 2:30 P.M.—View Exhibits

2:30 to 5:00 P.M.—Business Session

6:30 P.M.—President's Reception

7:00 P.M.—Annual Banquet. Rollin L. Rosser, presiding
Speaker, Talbot F. Hamlin, F.A.I.A., Columbia Univ.

SATURDAY, OCTOBER 17:

10:00 A.M.—Organization of Executive Board

LADIES' PROGRAM

WEDNESDAY, OCTOBER 14:

(SEE MEN'S PROGRAM)

9:00 P.M.—Ice Breaker—Cascade Room

THURSDAY, OCTOBER 15:

9:00 A.M. - 12:15 P.M.—Registration

Coffee and Doughnut Hour

12:30 P.M.—Luncheon at Hotel Pick-Ohio

1:30 P.M.—Trip to East Palestine Milk Glass Plant (Busses provided)

6:30 P.M.—"Clair W. Ditchy Night"

8:30 P.M.—Minstrel Show

FRIDAY, OCTOBER 16:

MORNING—On your own

12:15 P.M.—Leave Hotel for Luncheon at Tippecanoe Country Club. (Busses provided)

1:45 P.M.—Interesting Program of Entertainment at Tippecanoe Country Club

7:00 P.M.—Annual Dinner—Cascade Room. (Dress optional)

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SAVINGS WITH LIGHTWEIGHT AGGREGATE CONCRETE

The Highland Drive Elementary School in Brecksville is a typical example of what is currently being done here in Ohio with lightweight aggregate concrete and metal lath to form low cost insulating roofs over steel joists.

Cleveland architects, Alfred W. Harris, A.I.A., and Anton G. Nosek, Jr., A.I.A., specified a 3-inch thick perlite concrete monolithic roof slab poured over 3/4-

inch expanded metal rib lath. Consulting structural engineers, Barber and Magee, also of Cleveland, figured that the 3-inch slab weighed less than 10 pounds per square foot. To gain the same load carrying ability, a minimum of two inches of structural concrete would have been required, and would have weighed about 25 pounds per square foot.

By using this construction, the functions of a structural roof deck and insulating board were combined in one simple, easily installed construction. The overall U factor is 0.25 Btu per hour per square foot. By comparison a two inch structural deck plus one inch of insulation board would give a U factor of 0.286.



The lightweight perlite concrete is light enough to be easily shoveled from the end of the trough to the surrounding area. It can be wood screeded to a smooth, even surface without the additional labor of steel trowelling.

The initial cost of metal lath centering is usually lower than other types of centering, and it is quickly and economically installed. In fact, the total cost of the completed roof including metal lath centering, concrete, and a 20-year bonded built-up roof was only 55.8 cents per square foot. Cost per cubic yard of perlite concrete in place is \$25, including labor and material for concrete. The general contractors, Hoelzl Construction Company, stated that the total cost for the structure was \$507,000.

On the Highland School job, Barber and Magee used a four to one mix, that is four cubic feet of perlite aggregate

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ADams 4175

Columbus 15, Ohio

gate (or one bag) for each bag of Portland cement. This mix design produced a smooth working insulating concrete with an oven-dry weight of about 35 to 38 pounds per cubic foot and a "k" factor of about 0.75.

The concrete mixer was placed on a high movable stand which came even with the edge of the roof. As soon as one section was poured and screeded smooth the rig was rolled along to the next section to be worked on.

Lightweight concrete can be easily poured over metal lath and screeded to a smooth, even surface. The unique shape of the openings in metal lath centering permit the wet concrete to flow through and embed the lath, but with a minimum amount of droppings. Once embedded the lath reinforces the slab to give tested floor loads which usually exceed the structural limits of the supporting steel joists or junior beams.

CALCULATED "U" FACTORS FOR PERLITE CONCRETES*

Mix	Average Compressive Strength	Oven Dry Density	Calculated U Factors for Perlite Concrete of Thickness Indicated*						
			1"	2"	3"	4"	5"	6"	8"
1:4	415 psi	35 pcf	0.750	0.376	0.250	0.188	0.148	0.125	0.094
1:5	250 psi	29 pcf	0.610	0.305	0.204	0.153	0.122	0.102	0.077
1:6	165 psi	26 pcf	0.560	0.280	0.187	0.140	0.112	0.094	0.070

*Based on data developed under the sponsorship of the Perlite Institute at nationally recognized laboratories.

ACOUSTICAL TREATMENT

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Incombustible?

Monolithic?
Tile Form?

Perforated? Fissured? Textured?

Suspended? Furred?

Cemented? Mechanically Attached?

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Load tests by a nationally recognized laboratory show that a four to one mix of perlite concrete on 3/8-inch rib lath with no additional reinforcing will sustain an ultimate load of 920 pounds per square foot when poured 2 1/2 inches thick on 24-inch centers, and 705 pounds per square foot when poured 3-inches thick on 32-inch centers.

Although these tests and actual job experience prove that metal lath acts as reinforcing for the concrete slab, if additional reinforcing is desired it should be placed in the top half of the concrete slab to be effective. This is particularly true over the joists, for it is here that the bending stress is the greatest and, therefore, the danger from cracking is most critical.

Manufacturers of metal lath offer a wide selection of various laths to meet the varying job needs. There are popular ribbed laths of expanded metal stiffened with solid steel rods or formed ribs 3/8 and 3/4 of an inch high. Sheet lath, in contrast to the expanded types of lath, is perforated in patterns and is also available with stiffening ribs if necessary.

Although the Highland School job was designed with sloped roofs, adequate drainage for flat roofs can be obtained by simply varying the thickness of the concrete as it is poured and screeded. The surface of the dry concrete made a smooth, non-flaking base for the 20-year bonded built-up roof.

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A.S.O. 20th Annual Convention

Hotel Pick-Ohio — Youngstown

October 14, 15, 16, 1953



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Jefferson 8343

PUSH BUTTON WEATHER CONTROL?

Year-round push button weather control in an all-electric home is rapidly approaching the reach of the average American pocketbook, according to Clarence H. Linder, G-E's vice president of engineering.

Speaking to the A.S.R.E. at the Lake Placid club, the G-E official predicted that 200,000 heat pumps will be sold annually by 1960 at an installed price of less than \$2,000. This compares with today's installed price of about \$3,500 to \$4,500 in a few thousand luxury homes throughout the nation.

The heat pump was described as a new type all-season air conditioner that heats in the winter and cools in the summer. Electricity is the only fuel required by the heat pump, thereby eliminating ashes, dirt, and the need for chimneys. The heat pump has been in an intensive research and development stage during the past 20 years

but only seriously marketed for less than two years.

Describing a home as all-electric only when it is also heated by electricity, Mr. Linder said the heat pump is "a most promising device for this job." One setting of a thermostat will provide uniform temperatures throughout the house at any time of the year. From its initial success in the few thousand homes where it has been installed, we can see in it a key to the all-electric home.

Mr. Linder told the refrigerating engineers that "few industries can look forward to a future as bright as yours with the products available in refrigeration and air-cooling today."

The G-E official also warned the engineers of the seriousness of the engineering shortage. He said that before the bright future of their industry can be fully realized, they must first insure they have enough engineers available to continue the program of creative and imaginative engineering.

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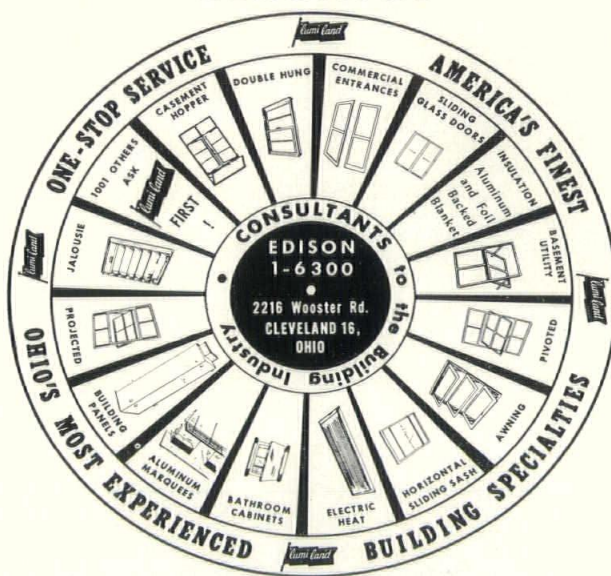
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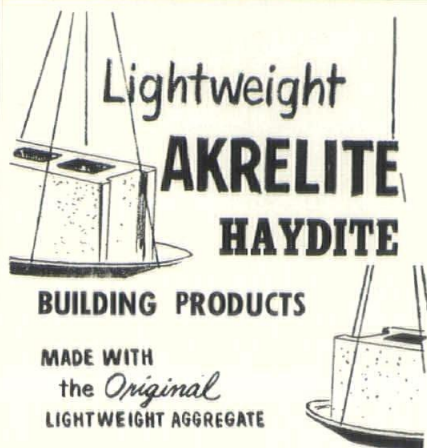
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You will have noticed whether the neighborhood is improving or deteriorating — time frequently causes strange ups and downs! But you may not have thought of inquiring whether there will be future assessments for further street improvements and whether prevailing winds bring industrial dirt or gases. You might even be so carried away by a wooded hilltop that you will find yourself with a piece of lovely acreage for which you have no access to a road or street! It has happened.

Usually the lot is bought before an architect is called in. Sometimes there is a long wait before you are ready to build. (If this is the case, you might well use this time to get some carefully chosen trees planted.)

When the architect is selected, he will go over the lot, very carefully, exploring all the possibilities, before he begins work with paper and pencil. In this way he can be sure that the sun pours in the rooms you intend to

live in most, that fine trees and pleasant views are put to fullest use. Now is the time to think of future privacy, of the proper place for your porch, your outdoor fireplace, flower garden and the area that can best be spared for driveway and clothes-yard. (Having garage doors open on the front or side rather than from back uses less space but isn't always as attractive.) Now, comes the time to consider the all-important problem of the exterior style of the house, in relation to the lot and the surroundings.

Suddenly, in visualizing these, your house begins to come alive! You stand on a bit of firm earth and tell yourself, "There's where I'll sit in the evening and listen to the radio — and over there's the perfect sunny spot for a flower border!"

Fitting Your House to Your Family

One of the many reasons for choosing your architect with care is that you are bound to become good friends during these months of planning together. He should not only inspire respect for his professional ability, but you must feel that you want to take him into your confidence. Talk to him freely — let him know how you live, what kind of parties you give, whether you are home or away in the summer, what are your hobbies and interests. If there are older children, who may soon be away at school or in their own homes, you may want to be able to shut off part of the house, leaving a compact "apartment." Or if the family is likely to grow, or older people come to live with you, the architect should know about it and either plan for room now, or allow for future additions.

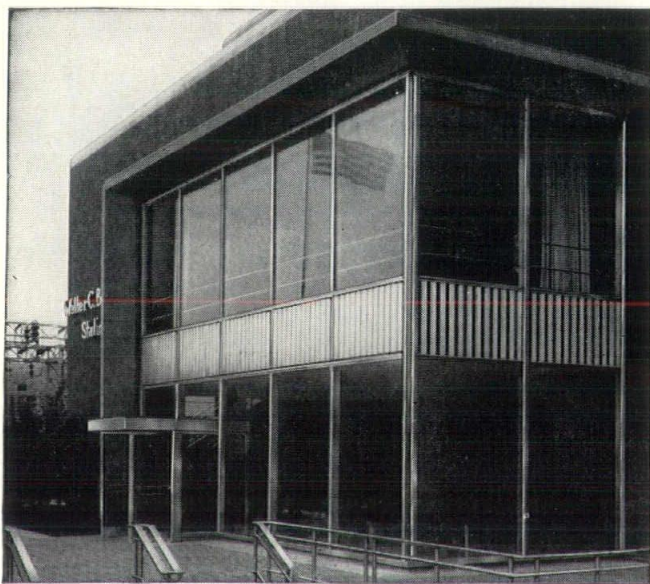
Above all, be frank about your finances. A house that is much larger than you need or more elaborate than suits your kind of life, is wasteful and expensive and will be a future burden. Tell your architect what you want to spend before you start.

Knowing about you, he plans a house that is yours — a recessed cupboard, painted robin's-egg blue, for mother's collection of old glass, a small room where father can keep his books and read in slippered comfort, a double-decker bunk for Bob who always has a pal around, extra big closets for Sis, wall-papered like her room, with a high rod for her evening dresses and shelves to hold her dozens of sweaters.

The fact that you can have a house that is yours, is the greatest single argument against using "free" or stock plans, which may tempt you as a possible saving. Actually they probably will cost you more in the end, and may bring endless trouble. For instance, you may find, when complete, that the only place for your refrigerator is too small, that there's no wall space in the liv-

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OHIO PERLITE

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WAL-LOK

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ing room for the piano, and the bedrooms weren't planned for twin beds!

Making even small changes in stock plans, to try to bring them closer to your needs, can make them structurally unsound. And remember, that plan was drawn by someone who had never seen your lot or met you and your family. In addition, such cut-and-dried affairs are often devoid of good taste. They are not fair to you, for people are bound to think, "That's the house they built. I should think they could have done better than that!"

Planning and Design

The physical appearance of your house — the material it's made of, the actual layout of the rooms — these are the best known tasks of the architect, though too often it is assumed this is all he does.

No two architect-designed houses will be alike, as no two families are just alike. The final plans will be arrived at without haste, growing out of talks in which you and your architect come together — you with specific ideas of what you want; he with his judgment and technical skill. For instance, in choosing the exterior finish you will consider many factors — the general character of the neighborhood, the setting, climate, upkeep, relationship to interior design.

You will make compromises. Yes, you must face the fact that you can't have everything in one house — like the man who wants a snug New England "salt box," but also admires a fine two-story studio living room, with a beamed ceiling!

Your architect can perform miracles. He'll give you wall space for your large pieces of furniture, he'll be your "traffic cop" to save you hundreds of steps a day, he'll see to it that the rooms bear a proper relationship to each other. He'll avoid fads. Styles in house design come and go, but if you watch as you go about, you'll see that houses built with taste, on simple lines of good design, don't look ridiculous or out of date whether they were built five, twenty or fifty years ago.

"Modern" Inside the House

No matter what you choose for the exterior of your house, you certainly want it "modern" inside, in the sense that you want to take advantage of the newest ideas in layout and the finest developments in equipment.

Adding much to ease and efficiency, for instance, is really adequate electric wiring. Floor plugs, radio outlets and telephones can be put in the house inexpensively when it is being built. They'll be a major item if added later on, and an amateur job is always a fire hazard. A call bell or telephone from an upstairs bed-

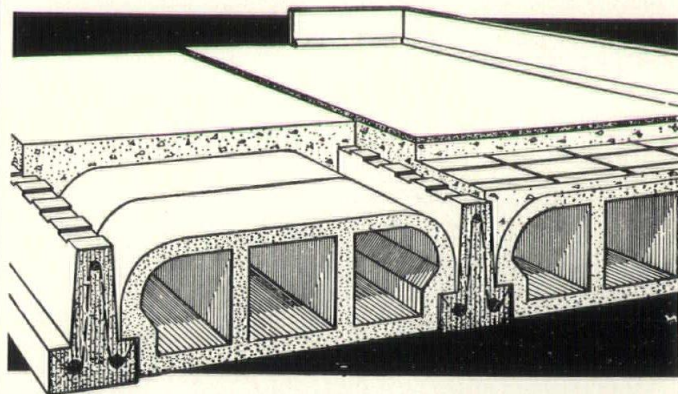
room or from the basement playroom to the kitchen may seem an unnecessary flourish, but such small additions can bring endless convenience later on.

It's traditional that the man of the house longs for a perfect place to keep his tools, while the woman grows starry-eyed over the prospect of enough closets! Well-designed and properly located closets are not a luxury — they are an essential to up-to-date housekeeping — closets for linens, cleaning equipment (big enough for the vacuum cleaner), for bags, summer and winter storage, card tables, games and sports equipment, big closets in the bathrooms!

The last ten years have seen amazing improvements in such important fields as insulation, heating, air-conditioning, sound-proofing, prefabrication. These may prove to be outshadowed by still newer advances.

No layman could possibly keep up with all these de-

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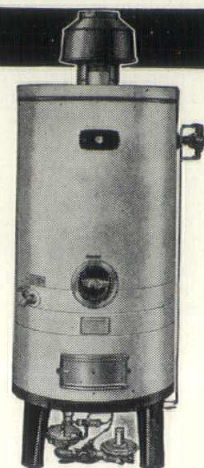
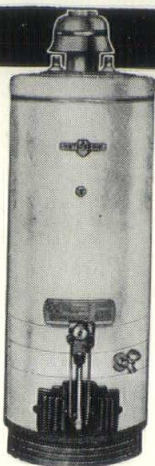
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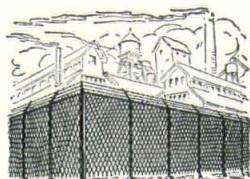


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velopments. Even if he could, he would not have the training to judge their value, to know which was just another fad and which a real step adding to the convenience of daily living. This is the architect's field. He will have followed the best of the experiments and be able to advise on them as they apply to your house.

Improvements in homes is a process of evolution, not of revolution, just as in automobiles and other familiar articles. Materials will gradually be adapted to new uses, labor-saving devices will be invented and improved. But don't wait for the "miracle house." It may be a long time coming.

Original Cost and Upkeep

If your home is to continue to bring you pleasure through the years, it should not be a financial burden. From the beginning you should know what the monthly carrying charge will be. This is the yearly costs — taxes, interest, mortgage payments — pro-rated over twelve months like rent. You should also have a good idea of how expensive your house will be to maintain. A house of stone or stained shingles, for instance, costs much less for exterior upkeep than one which must be completely painted every few years.

There is no limit to the original amount one can spend on a house, and if every single item you think would be nice is included in a moderate-sized house, the expense will soon be top-heavy.

The architect must weigh values and advise you. Electrical outlets, as an example, cost less during construction than if added afterwards. Insulation and storm windows are items that add to the original cost, but which actually pay for themselves in a comparatively short time by lowering heating costs — and what wonderful comfort they give!

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Good quality, in this as in every long-time purchase, means good service. Better wallpaper will not need to be replaced as soon, top-grade linoleum will wear far longer. On the other hand you may decide that the simplest brass hardware — though much less expensive than some — suits your taste. If you use wide board flooring you may actually prefer the second grade which has more variations in color and grain. The first coat of ceiling plaster, slightly rough, can be left without a finishing coat in certain styles of house. These are legitimate economies.

If some long-dreamed-of feature appeals especially to you (say a huge window to give an unbroken view and bring the outdoors inside), then it will be worth the added cost. But usually where there is a question of take-it-or-leave-it the architect's judgment will save you money and regrets. He knows where costs can safely be cut without harming quality, and where only the best is worth buying.

Resale Value

Whether or not business moves or family changes will ever put your house on the market, it is a comfortable feeling to know that it has a sound resale value which bears a reasonable relation to what it cost you.

Here the counsel of your architect is invaluable, because he knows from experience what kind of houses people want. He will see that you have a home of outstanding individuality, yet one which does not stray so far from average tastes and requirements that it becomes unsaleable.

He will avoid cramping layouts. One couple wanted to have the baby's room connect with theirs. Their architect saw to it that there was a way to enter the smaller bedroom besides through the larger one — otherwise the house might be considered by a prospective buyer to have three usable bedrooms instead of four, an essential difference.

On the other hand, the value of your house can be vastly increased by numerous small architect-designed details that say, "This was built specially; it's not just another house-for-sale."

Another duty of the architect which will affect the value of your house is his watchful supervision of the job while it is under construction. Is the builder using the quality of piping specified? Will the chimney draw? Hundreds of questions which arise during building need the watchful eye of an expert, and a quick, correct decision may mean a real saving of money.

Technical Details

Another quite distinct field in which you can expect your architect to protect your interests is in the related matters of finance and law. It is his business to design a building that will be approved by loan agencies. He understands the law as it pertains to building contracts and has studied the state and local codes which must be complied with, as well as labor laws, zoning ordinances, fire and fire underwriters' requirements and the rules of utility companies, such as gas, water, sewer, electricity. He will advise you about insurance.

The reason for requiring architects to register under state law is to protect you. Before he may register as an architect, a man must have gone through a period of general education, technical training, practical experience and professional examination. This is your assurance that the buildings he plans and supervises will be safe, of correct materials and will have architectural merits.

The fact that loan companies are more interested in the architect-designed house, and rate them higher

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financially, is outside proof of the value of the architect's service.

Working With Your Architect

Very well, then, for you who want a house that is a home in every sense of the word — the architect is your man. He can prevent such common annoyances as too small closets, noisy plumbing, inaccessible light switches, doors that open the wrong way. He can also see that you have those priceless intangibles — character, good taste, and suitability.

Select your architect with care. If possible, visit houses he has designed and talk to others he has served, before you make your final choice. In other words, consider his reputation and past performances, just as you would in the case of a doctor or lawyer.

We have mentioned many ways that the architect will be invaluable to you. Let us now review the stages of his work.

After he has been appointed, your architect will begin those informal talks during which he finds out your specific requirements, needs and ideas, and considers the type of house and style of design most suitable. He will visit the lot you have chosen, or together you will make the selection.

These visits and talks will form the basis of preliminary sketches. The architect is visual-minded by training; maybe you are not. These sketches will help you discover what you really want and definite plans will now begin to take exciting form. Be sure to allow sufficient time and study at this stage. Of course you can hardly wait to see that first spadeful of dirt come out of the ground — but don't rush this important study-and-conference period. Obviously, changes made later on will be costly.

When you have approved pencil sketches, your archi-

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text starts working drawings with detailed dimensions and full information, at the same time carrying along the outline for written specifications and selection of materials.

After these detailed plans and specifications are completed and approved, the next step is competitive bidding by a list of selected contractors. Bids are received and discussed by you and the architect, who will recommend awarding the contract to the lowest reasonable bidder. Bids may vary as much as fifteen to twenty per cent.

Now the architect prepares large-scale and full-size details of any special features—mantles, panelling, stairway, front door treatment, kitchen cabinets.

These are used by the contractor and the company doing his millwork.

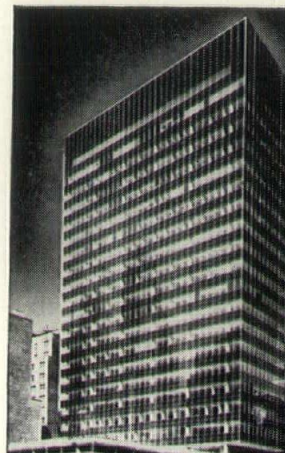
A Multitude of Details

The drawing board of the architect may now be set aside, but he is far from finished. From the time the mason sets to work on the basement, until the last bill is approved and paid, he represents your interests. He will supervise workmen and mechanics, inspect and check materials and equipment. He schedules and follows progress, in order that the house may be done on time.

Since he must be an unbiased judge, the architect will have no financial interest in the job, other than the regular fee paid him by the owner. This is of the utmost importance and is a major reason for having an architect at all, rather than working directly with a building contractor in the belief that you may save money.

When the contractor requests partial payment, the architect checks the amount and quality of work completed, to see what sum is due. Fifteen per cent is generally held back until final payment, to insure satisfac-

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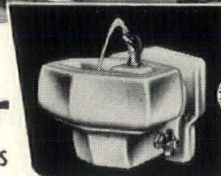
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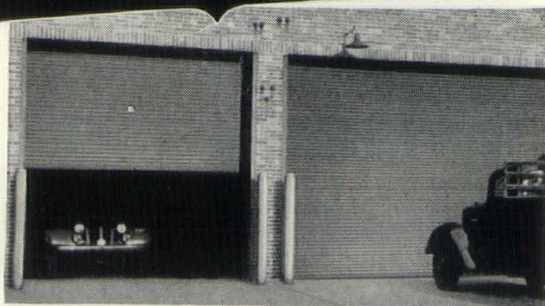
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tory completion. Waivers of lien and sworn statements are required at the time of payments. The architect keeps accurate accounts and lets the owner know amounts paid, credits and extras and the amount of balance due.

This, then, is the working formula of an architect by which better homes can be built at lower cost, competitive bidding based on properly prepared plans, carefully supervised at every stage.

It is easy to see that the architect can save the owner much more than his fee — in designing a beautiful house, in seeing that it is properly built, in protecting legal and financial interests, in saving endless regrets.

The architect does not bid on the job. He is paid a fee based on the cost of the house. If you have been thinking of building a moderate-priced home, you may have felt you couldn't afford an architect. It is nearer the truth to say that, unless you have money to waste, you can't afford to build without one. His service is a necessity, not a luxury.

If this article has shown you the value of making this major investment on a sound basis, it has achieved its purpose. *Good luck and happiness in your new home!*

Editors Note: This article was prepared by the Architects League of Northern New Jersey.

OUR OWN THROATS (Continued from page 28)

stuff" that he couldn't be bothered with little houses.

He worked with Architect B who didn't get the drift, and gave him a custom house design that he couldn't use.

He then tied up with Architect A who pumped him for facts, analyzed his problem, and came up with a solution that was 10 jumps ahead of his competition.

* * *

As architects, let's face the facts. The day cometh.

Architect C, don't you wish you'd gotten in while the getting was good? Architect B, don't you wish you'd treated it as a real problem instead of turning it over to the office boy? And don't you both hate to be laying off draftsmen?

Builder X? Forget him. He's done for anyway.

Builder Y? Worry about him. And with his "captive architect," worry about the threat to your profession. Shouldn't you be concerned about his bright young designer you didn't hire? Wouldn't it be better for everyone if he were working in your office, guided by your experience and your judgment?

Let's all face the facts.

Let's not stand around like Builder X and Architect C, Builder Y and Architect B, all pointing the finger of blame at each other while homebuilding goes to pot. Look at Architect A and Builder Z; they've got a deal.

Why cut our own throats?

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A New Aluminum Lightweight Marquee

(Continued from page 30)

to reduce the amount. At this point exterior sunshades answer a need. Why? Because shades will pay for themselves by reducing the size and operating expense of the air conditioning plant and incidently, will give an attractive look to the front of the building.

The low-cost all-aluminum marquee can be assembled for any length installation using stock panel widths of 4', 5', or 6'. These same panels are available in stock for projections of 6', 8', or 10'. Minor variations to fit any dimension of marquee are possible. A 6' x 8' section weighs 65 pounds or 1.35 pounds per square foot, and is easily handled by two men.

Although the marquee is lightweight aluminum (.050" thick), a cut-away portion shows that the form of the louver slats is inherently strong. The louver has a "W" shape and measures 3 inches in depth. Laboratory tests proved it will stand up under a load of 60 pounds per square foot, which will meet maximum building code requirements.

The individual louvers function in reflecting the sun's heat, filtering the light, allowing air circulation, shedding the rain or snow, and channeling the water into intermediate drainage troughs between each section, which in turn, drains into the main gutter. A thirty-foot marquee with a ten-foot projection will drain off rain at a rate of 11" an hour, which is as heavy a rain as has been recorded in the United States.

Like other Kawneer products the marquee has an aluminite finish, which requires a minimum of upkeep. For reflection of the sun's heat, aluminited aluminum has proved to be the best material. This surface reduces infra-red penetration, keeping the heat above the marquee and reducing store air conditioning costs and preventing spoilage of merchandise. The natural ventilation through the louvers prevents hot air traps.

Light under the marquee, filtered by the "W" design, places attention on merchandise without special lighting required for cloth awnings or other marquees. Kawneer marquees show sophistication in their wide range of uses on storefronts, office buildings, factories, schools, hotels, banks, restaurants, and night clubs.

(Continued on page 64)

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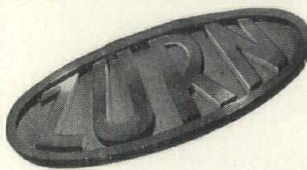
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The new marquee can be installed in four to six hours by three men over an average thirty-foot storefront, after the mounting surface has been prepared. No special tools are required for installation. All holes in the individual louvers are pre-drilled, and all parts and accessories are available in stock. Only the outside trim members require cutting to fit job conditions.

Three basic groups form the marquee: the louvers, the trim members, and the accessories, which are a "Z" section, gutter, and hanger fittings, which are adjustable for leveling the marquee. Individual louvers in lengths of 6', 8', or 10' are assembled off the job into panel widths of 4', 5', or 6'. The louvers for each panel width are laid side by side and are assembled to the wall channel and top channels with screws. Minor variations for any dimension of marquee width are possible. The panel is easily carried to the job because a 6' x 8' section weighs only 65 pounds.

The marquee is mounted on the building by either cantilevered or wall hanger supports. On new buildings it may be easier and more practical to cantilever the marquee. On remodeled buildings, where there are no major structural changes, the marquee may be suspended from pipe supports tied to wall brackets. The pipes are bolted to wall brackets which may be welded to an existing steel beam, or to an eye bolt which is anchored into the existing wall.

After the surface has been prepared either for cantilevered or hanger supports, a Z-section is face applied to the building at the marquee level and runs the entire length of the marquee. Each marquee panel is brought into place and anchored to both the Z-section and the hanger supports. After all the panels are fixed and leveled, the gutter is set in place and the outside trim applied.

Special attention should be paid to the leveling feature of the hanger brackets, as this allows the entire marquee to be raised or lowered as a unit to the level position.

Once finished the installation is permanent and provides relief from flapping awnings. Intentional or accidental damage to any part may be easily repaired from stock replacements. The parts are easily removed and replaced.

FOLDING DOORS GIVE GREATER FLEXIBILITY

(Continued from page 22)

tary school children. Folding doors such as Modernfold which operate on a ceiling track open and close easily making every square foot of wardrobe area accessible and permit full use of all room area. These doors operate silently, eliminating the clatter of steel lockers and the banging of folding and sliding wood doors. Also, these doors are safer for children to operate—there being no danger of a bumped head or a bruised finger.

These doors lend themselves to many other uses: such as auditorium stage curtains; dividing walls in school faculty lounges, student or faculty living quarters; in school offices, and infirmaries.

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EARLY ARCHITECTURE IN OHIO

(Continued from page 9)

city's social life, standing as it does at the eastern end of Fourth Street, a principal axis of the city's financial and mercantile area. Here William Howard Taft was notified of his nomination to the presidency of the United States. Now endowed as a public monument, the house stands restored in its original grandeur with a priceless collection of famous paintings and period furniture.

Traveling up the Little Miami River valley one finds two early colonial buildings built by the Ferris brothers, prosperous landowners who owned most of the land now comprising the village of Mariemont. The older house, erected in 1813, serves today as the office of Taylor and Porter, architects. Original hardware, trim, and stenciled designs on the walls are still in good condition. The second Ferris house, built in 1826, is also preserved in excellent condition, and continues as a residence with little exterior change.

Farther up the Little Miami Valley one finds the Christian Waldschmidt house, a stone building completed in 1804 and since restored by the D.A.R. as a memorial to Ohio's first paper maker. The marker on the building reads:

"This stone house was built in 1804 by Christian Waldschmidt who established on this tract of land the first paper mill in Ohio, and thereby advanced the influence of the early newspaper as a means for disseminating the ideas of religion, law and government of the founders of the Northwest Territory.

Christian Waldschmidt was an immigrant from Germany, where he had learned the papermaking trade, and was the leader of the German Pietists colony which settled near the mill. (Photo by Edwin Taylor). Here he built a grist mill which he converted into the paper mill to supply the "Western Spy and Hamilton Gazette," first paper of the Northwest Territory, founded in 1793, after the editors had difficulty in obtaining paper from the East. He was the leader of the community known as "Germany, Ohio," later renamed Camp Denison during the Civil War when it was the GHQ for General Joshua Bates, of the Union Army.

Opposite the hills of Hamilton County, lies Clermont County, settled largely by retired officers of Washington's Continental Army, and by merchants who floated their crops and timber down the Little Miami, then down the Ohio and the Mississippi to New Orleans. One house in Mount Carmel illustrates the effect of such transportation, for the home of Cyrus Broadwell was built in 1840 using solid cypress logs for the turned Doric columns supporting the veranda completely surrounding the house, after these logs had been assembled in a raft and poled all the way upriver from the Louisiana forests.

An early Ohio trail led from the Little Miami River valley across the hills to Lebanon, "Ohio's Biggest Little City," and source of much of the wrought iron work used on early buildings of the Northwest Territory. Here, facing wide Main Street, at the sign of "A Very Golden, Dropsical Sheep," is Ohio's oldest hotel, "The Golden Lamb." Built in 1816, it has been in continu-

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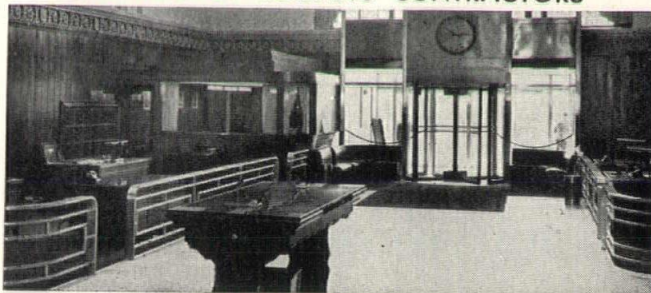
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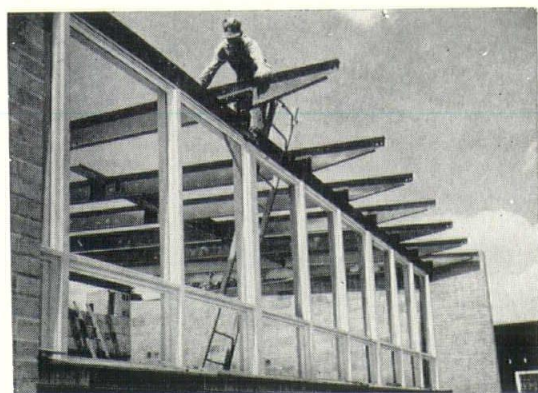
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ous service for 137 years. Its ancient register contains the names of Charles Dickens, John Quincy Adams, Martin Van Buren, Rutherford B. Hayes, James G. Blaine, DeWitt Clinton, and many prominent men of more recent years.

As one drives through the village of Oxford, seat of Miami University, he sees many examples of early Ohio architecture, for this is one of Ohio's oldest university towns, made famous by its teacher-author, William Holmes McGuffey, by the several social fraternities founded there, and by its influence for the abolitionist movement.

Little architectural remains of the original industrial city which was the third largest in America for many years, and which was nicknamed "Porkopolis" during the nineteenth century, but Cincinnati and the southwestern Ohio region which it dominates are proud of a heritage of conservatism, of permanence of institutions as well as of structures, and of the hills and valleys. They were settled before Ohio gained statehood, and have had few newcomers from foreign lands in the past half-century, so that Ohio's Sesquicentennial is very real in a personal way to the residents who invite you to visit them this year.

Schedule of Fees and Services

(Continued from page 20)

shall chemical and mechanical tests or test borings.

(b) Where heating, ventilating, mechanical, electrical or sanitary problems, in the opinion of the architect, require the services of a specialist, such fee shall be paid by the client.

(c) Legal work necessary in the preparation of contracts or negotiations with respect to property, party walls or such matters, is not included in the services of the architect.

5. Drawings and specifications, as instruments of service, are merely incidental to the architect's professional services and remain his property, the copyright in the same being reserved to him, but the client is entitled to a set of the plans and specifications of the building as a matter of record.

6. The client shall give directions or make requests only through the office of the architect, and not directly to the contractors or their men.

This is an agreement as to services to be performed by the architect and payments to be made by the client for

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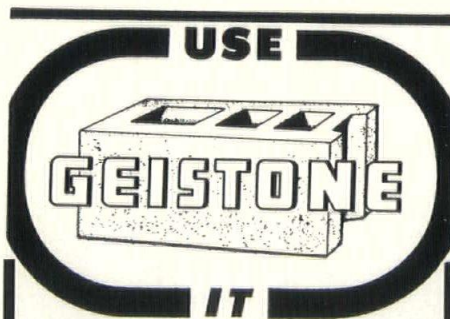
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FIBERGLAS CONTRACTING FIRM NAMES VICE-PRESIDENT

Henry R. Hogendobler, formerly industrial insulations sales manager of Owens-Corning Fiberglas Corporation, has been named vice-president and general manager of the Fiberglas Contracting and Supply Company, 4610 Smith Road, Cincinnati, it was announced recently. He succeeds Lee R. Reeder who has resigned.

The Fiberglas Contracting and Supply Company furnishes a contracting service for Fiberglas and Kaylo insulations and Fiberglas sound control products and warehouses and distributes other Fiberglas products and allied materials in southern Ohio, Indiana and northern Kentucky.

Mr. Hogendobler who has had wide experience in sales, industrial and construction engineering joined Owens-Corning when the corporation was founded in 1938 as plant engineer at Newark, Ohio. Subsequently he served as manager of Owens-Corning's Cincinnati Branch Office, chief operating engineer of the company, and chief engineer from 1945 to 1952. Prior to his affiliation with Fiberglas Contracting and Supply Company he was manager of industrial insulations sales.



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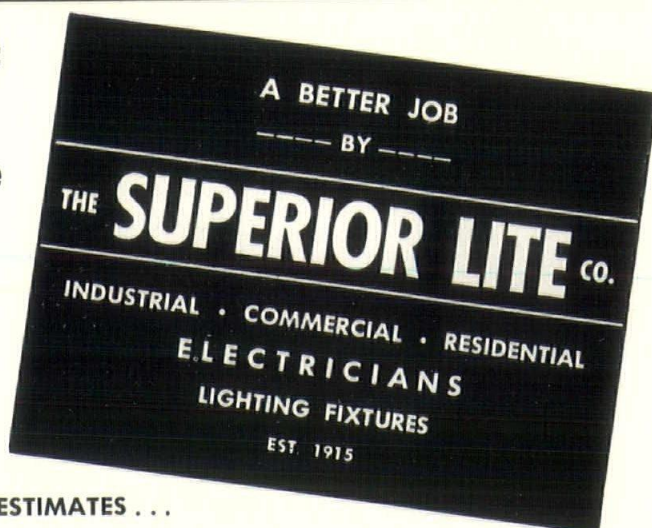
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The Semi Annual Meeting of the Steel Joist Institute will be held at the Greenbrier, White Sulphur Springs, West Virginia on October 13. Institute address: Dupont Circle Building, Washington 6, D. C. Managing Director, C. H. Luedeman.

FHA AND VA FINANCING USED
FOR NEW HOUSING SALES

FHA and VA insured mortgages were used for a whopping 40% of the sales of all new dwelling units erected between 1935 and 1951.

A study by Dr. Leo Grebler of Columbia University's Institute for Urban Land Use and Housing Studies, also shows that FHA and VA financing was used for about half of all the units produced in the peak years 1947 - 1951. In the market for homes costing between \$6,000 and \$12,000, FHA and VA financed about 70 to 75% of all new house sales during 1949-50.

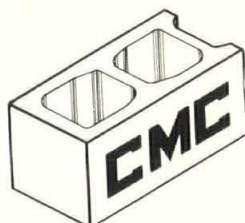
MODERN FIREPLACES

(Continued from page 51)

own bedrooms on the second floor separated by a bathroom.

The house was constructed of Roman brick and redwood and also so designed that the recreation room opened up onto the back yard, whereby they could create their own view and privacy.

Editor's Note: The double opening fireplaces shown and as designed by Architect Burris, were furnished by The Donley Bros. Co. of Cleveland. This long established concern also publish a book on Successful Fireplaces. This book is an acknowledged authority in its field and is free to architects if requested on their letter head; 50c a copy for the public.



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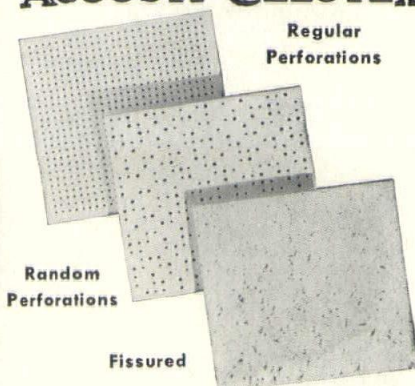
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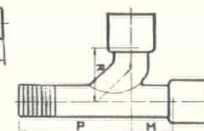
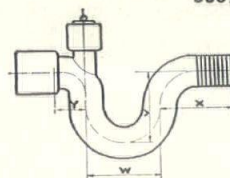
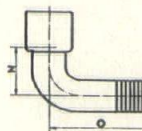
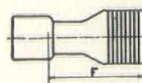
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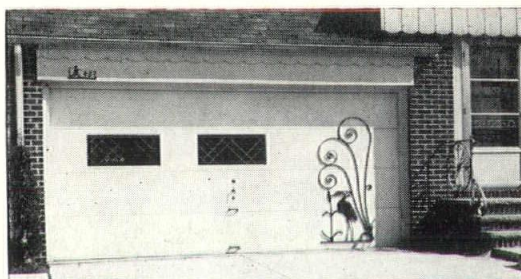
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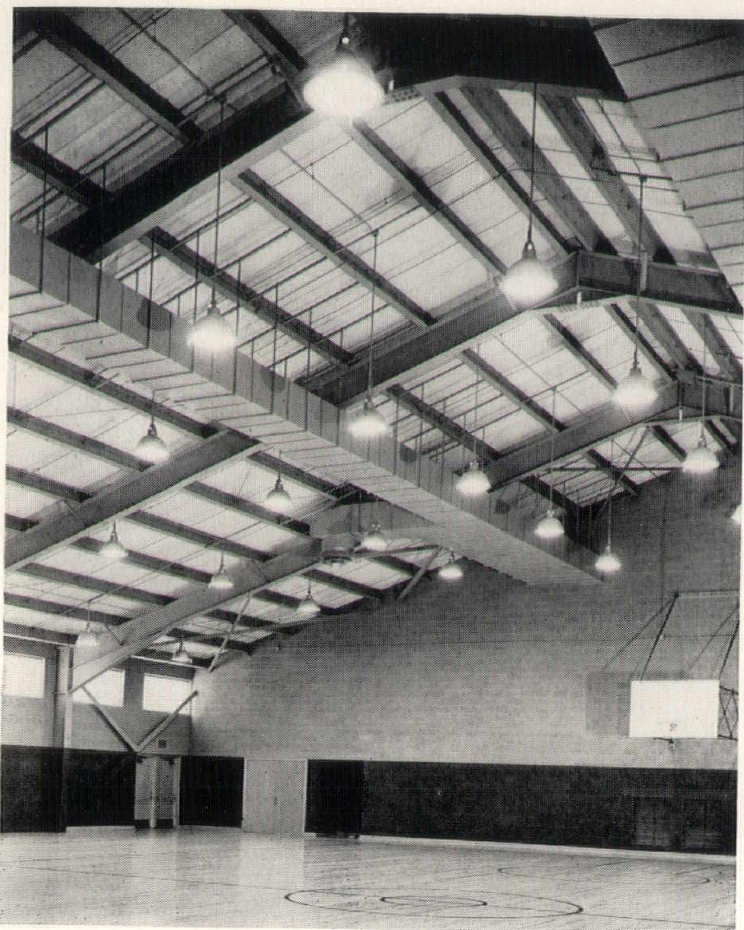


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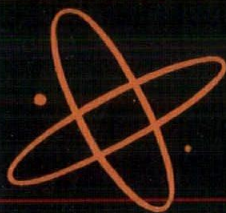
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