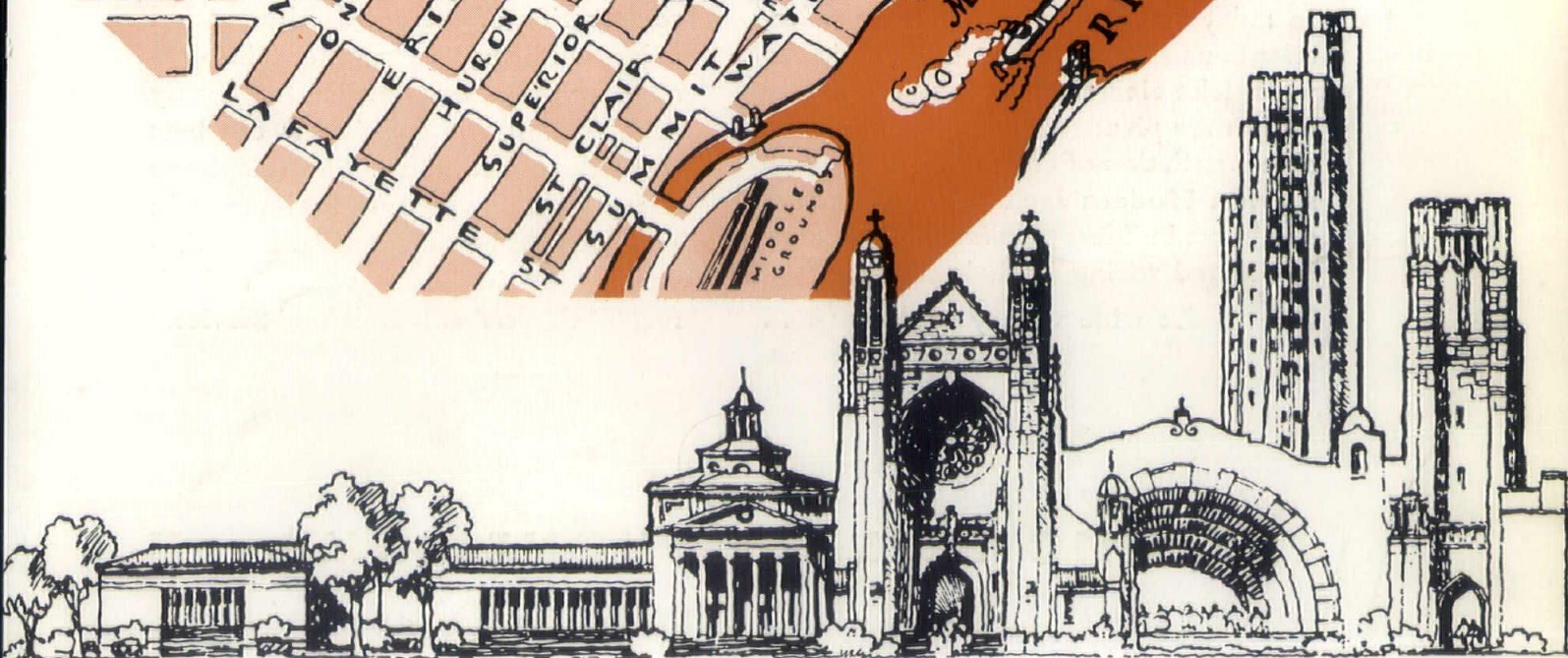
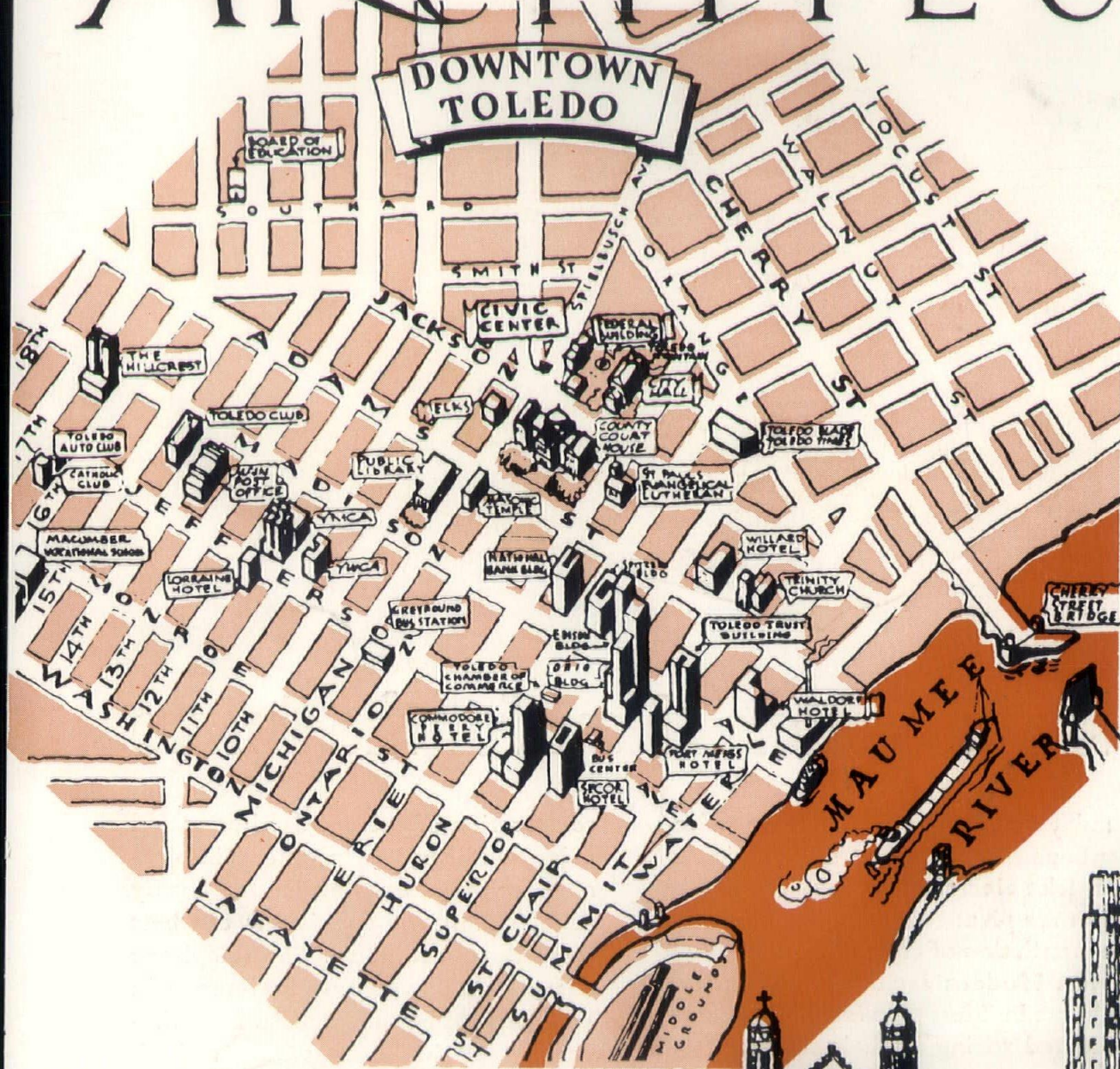


# OHIO ARCHITECT

OFFICIAL CONVENTION PROGRAM

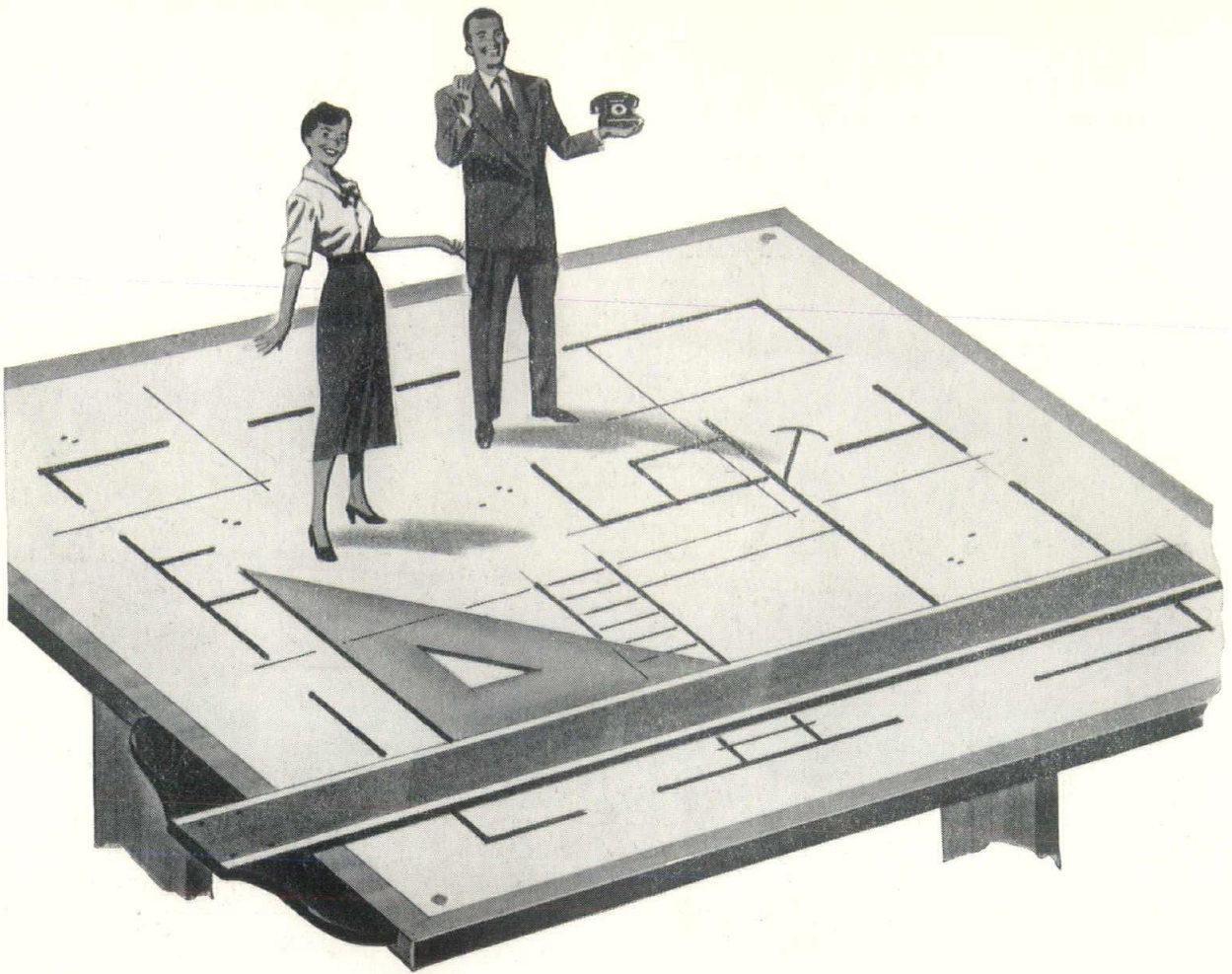
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OFFICIAL PUBLICATION OF THE ARCHITECTS SOCIETY OF OHIO OF THE AMERICAN INSTITUTE OF ARCHITECTS





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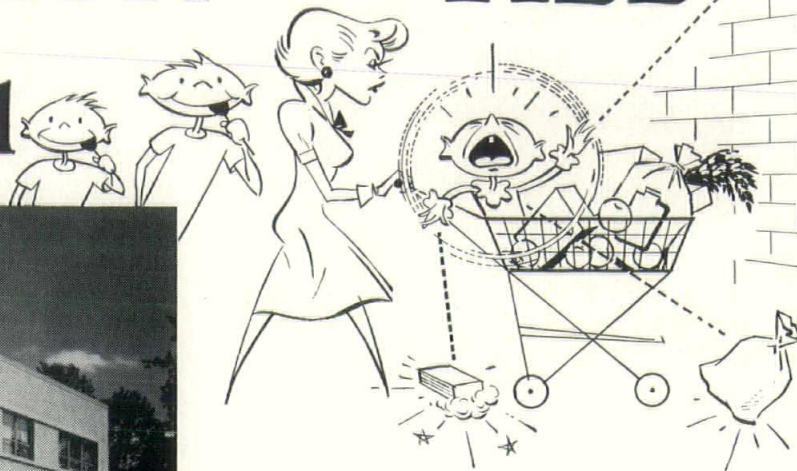
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# President's Message

By Leon M. Worley

I well remember the last architect's convention that I attended in Toledo. It was shortly before World War II and was the first really big Architects Society of Ohio Convention ever held. Based on Toledo's past performance as convention host, I am certain that we can be assured of an entertaining, educational and exciting time at our Convention which is to be held October 10th, 11th and 12th.

To those who have never attended a State Convention, I am writing this message to tell you why I, like many other architects, have devoted so much of my personal time and resources in past years for the purpose of attending our annual State Architectural Conventions. First my work as Cleveland Chapter Representative, later as Vice-President and currently as President has convinced me that the Architects Society of Ohio has done, and is doing, more for the individual practicing architect than any other organization or activity to which I belong. There is much of interest and of vital importance to our profession which is discussed and acted upon at our State Conventions. I want to have, and to do my part in such important work.

I find stimulation and inspiration through association with other architects at a convention, where I am free from the pressure from clients and the frustrations of office routine. I enjoy thinking and talking in a relaxed mood about Architecture as a Fine Art. At a convention, a badge is sufficient introduction to start a conversation with another architect. Through the years I have made many friendships with many distinguished practitioners of our profession.

I have also had an opportunity to meet and know the salesmen who exhibit material at our convention. May I say to these exhibitors that probably more good is accomplished by exhibits at conventions than all the calls you may make from office to office during

the year. We architects are a busy tribe and often do not like, or cannot devote the time to listen to your story in our office. At a convention your exhibit usually is bigger and better planned than anything you can carry to our offices. We in turn have an opportunity to review your exhibits at our leisure and hear your full story. Therefore it is my opinion that our Annual Convention does much to help us all to become better acquainted with one another. To know other architects as personal friends helps to create a much better overall professional morale. Friends placed in competition for a project are not so apt to cut fees or make derogatory statements about one another that are harmful to the profession as a whole. Much can also be gained by exchanging experiences with other members of our profession regarding production cost, client relations, office procedures and public relations. In addition there are many Seminars on various subjects of vital interest to our professional practice at our conventions.

Let us help our State Officers and our Convention Committee to make this a memorable event. Come and enjoy a few days with your fellow practitioners. Learn what is being done for the profession statewide and the reason for the necessity of increased dues. Our State Society however, needs more than your dues. It needs the active participation of every member. Come and contribute of your experience and ideas concerning matters of interest to the profession as a whole. You receive from any activity only in proportion to that which you give.

Our wives are a vital part of our lives and of our profession. Bring them to the convention that they too may become better acquainted. A splendid program of entertainment and education has been planned for them by the Convention Committee. Let's make this the biggest, best convention ever.

## Profession Mourns Passing Of Architects Hargrave and Darst

John W. Hargrave, AIA, Montgomery, Ohio, died last month as a result of injuries sustained in an auto accident five weeks prior to his death. He was 48 years old. Mr. Hargrave



Hargrave

was nationally known for his contributions to the profession of architecture and as an institutional food system consultant. He was president of the Architects Society of Ohio in 1954 after

serving as secretary and as editor of OHIO ARCHITECT magazine.

He graduated from the University of Cincinnati in 1929 and served two terms as president of the U. C. Alumni Association. He was a past president of the Kenwood Civic Association.

Mr. Hargrave served his profession faithfully and well, not only as an individual practitioner but in his local, state and national professional organizations as well. He was active in the reorganization of the ASO and contributed much to the architect's registration law of Ohio.

John W. Hargrave will not be forgotten.

Otto C. Darst, Columbus architect, died early in August, at his home. He was prominent for his work on the original Battelle Memorial Institute Building and the fountain in front of the Carnegie Library.

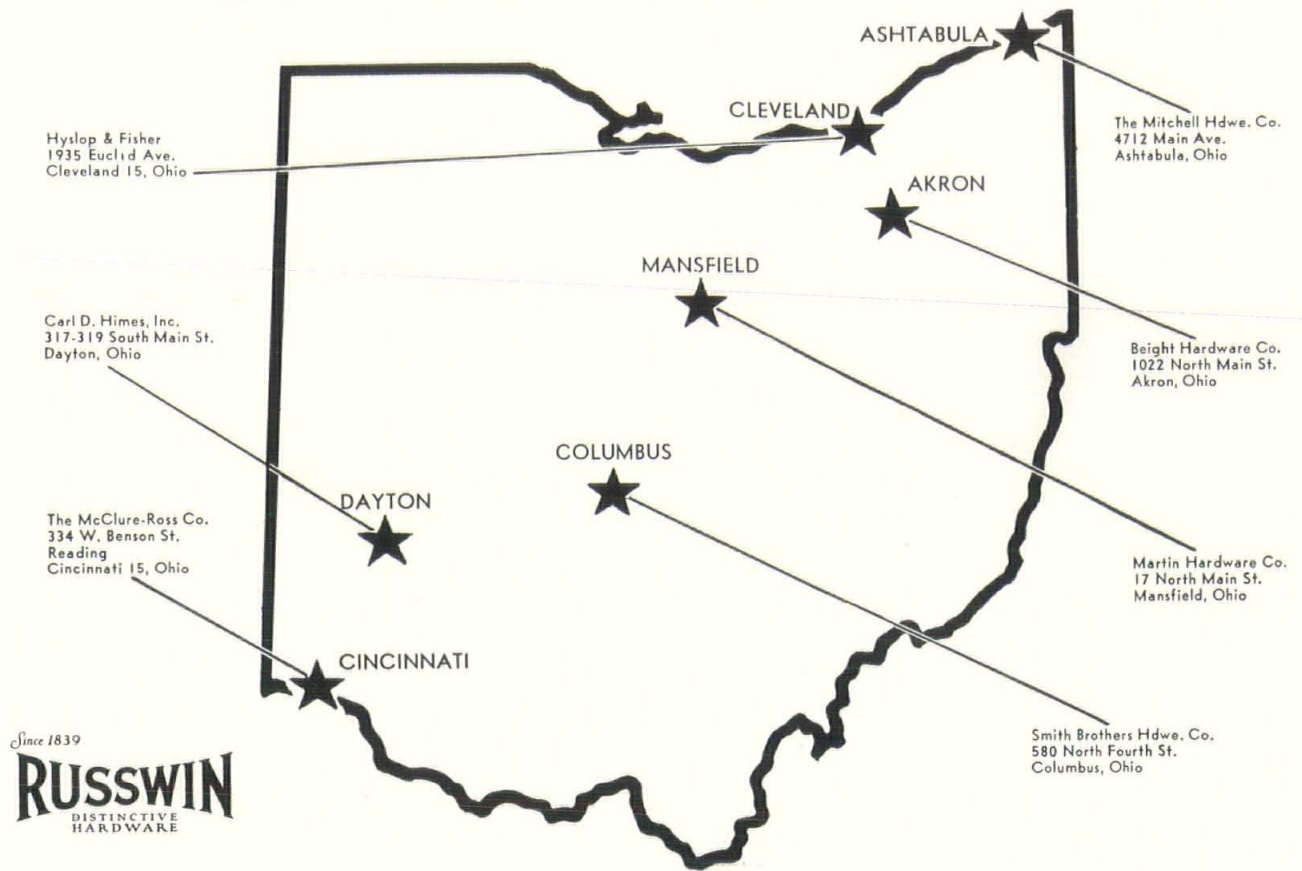
Mr. Darst was born in Kenton, Ohio, in 1887 and attended Ohio State University and Columbia University. He retired in the late '30's.

Mr. Darst was associated with architects who planned the east wing of Columbus City Hall, Central Police Station, buildings at Port Columbus Airport and fire houses for Columbus.

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# Announce New State Mental Health Building Program

The Department of Mental Hygiene and Correction outlined a \$30,000,000 proposed building schedule for 1957 and 1958.

Construction of the buildings would be financed with funds from the \$150,000,000 bond issue approved by the voters of Ohio last November.

Dr. John D. Porterfield, department director, in announcing the schedule to *Ohio Architect* said:

"The projects the department is proposing are those considered of the highest priority at the present time. At the same time they will fit into the long-range building schedule for Ohio's mental hygiene, correctional and juvenile programs.

"These projects are subject to the approval of the Division of Capital Planning and Improvement in the state Department of Finance, the Legislature's Capital Improvements Board and the Legislature itself."

The largest outlay for a single institution in the two year schedule is a total of \$7,600,000 for the first two phases of the new Southern Ohio Reformatory, to be built near Lebanon in Warren County. This 1500-man medium security institution will make possible a well-rounded long-range prison program in Ohio by releasing the Ohio State Reformatory at Mansfield for use as a penitentiary. Planning funds for the Lebanon institution were appropriated by the special session of the General Assembly last January.

## DEPARTMENT OF MENTAL HYGIENE AND CORRECTION PROPOSED 1957 BUILDING PROGRAM

PROJECT	COST
<b>Division of Correction</b>	
1. Lebanon	
Phase one of new medium security institution to form first step of Southern Ohio Reformatory .....	\$ 4,400,000
2. Marion Correctional Institution	
Final phase of Marion Correctional Institution auditorium and chapel .....	400,000
<b>Division of Juvenile Research, Classification, and Training</b>	
3. Juvenile Diagnostic Center	
Auxiliary units for new facilities .....	100,000
<b>Division of Mental Hygiene</b>	
4. Columbus Institutions	
a. Medical and surgical unit .....	1,560,000
b. Regional service unit .....	700,000
5. Orient State Institute	
Centralized food preparation and service unit .....	750,000
6. Tiffin State Hospital	
a. Administration unit .....	250,000
b. Central power plant .....	200,000
7. Dayton State Hospital	
Construction of utility lines for new	
<i>(Continued on Page 35)</i>	



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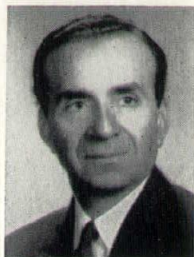




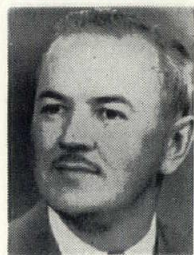
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# OHIO ARCHITECT

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

September, 1956

Volume XIV

Number 9

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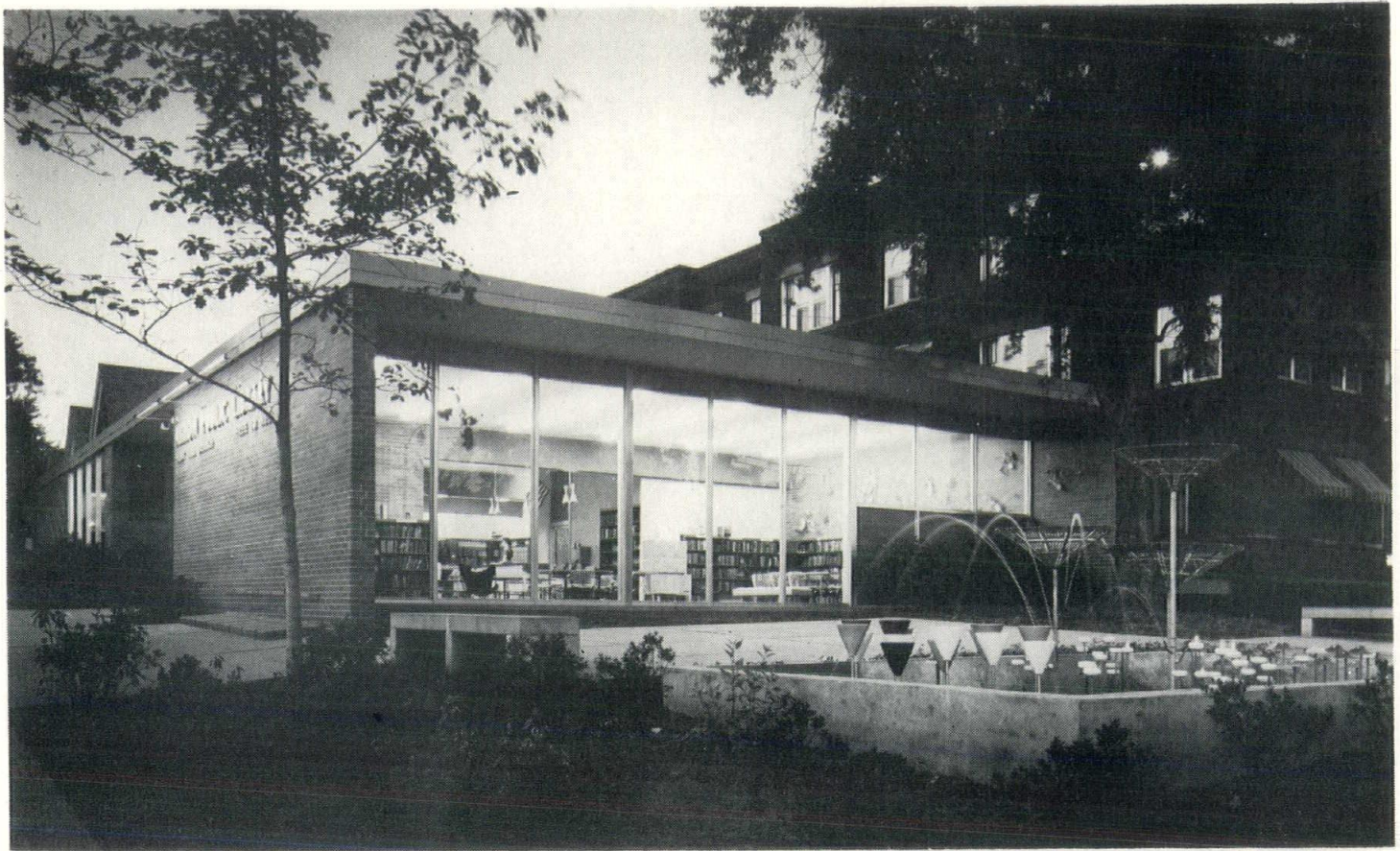
FRANK SWANSON, Advertising Manager  
 and ASO Assistant Secretary

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





Architects Tuchman • Canute

## Akron Public Library

In planning this Akron library considerable study was given to make the best use of a site that had many limitations. West Market is the main street, North Highland secondary. Parking is not permitted on West Market, but is permitted on Highland. There is a main bus stop on Highland just opposite the building entrance. There is a sixty foot set back line on West Market. A special zoning requirement relative to parking area and building area would permit a maximum building area of slightly in excess of 4,000 square feet on the main floor. In order to visually state that "this is a library" and to create a feeling of invitation to the people traveling on West Market

we opened this elevation almost entirely with glass. Then, of course, from the inside the children's area looks out on the fountain and "park area" that was carefully designed in conjunction with the building.

It was considered most logical and functional to have the entrance on Highland. The entrance area, lobby area, and librarian's office form a natural and desirable separation between the Children's area and the Young People and Adult areas.

Since the meeting room in the basement is used by many organizations as well as for special library sponsored programs, we felt it was important to put some visual emphasis on the stair-



way from the exterior so that the public would know that there is additional public space on the lower level.

#### Construction and Materials

The structure is a combination of steel framing and masonry bearing. The roof and main floor construction is of Flexicore precast concrete slabs. Interior wall surfaces and all partitions are either brick or painted concrete block. All exterior masonry walls are 10" cavity walls on the main floor. Floors are covered with vinyl-asbestos tile, ceilings are acoustic tile applied directly to the Flexicore. General lighting throughout is of opal plastic shielded fluorescent fixtures. Incandescent fixtures are used for accent lighting.

The brick is a smooth-faced dark gray-brown. The wall between the en-

trance and stairwell is of matt glazed brick, off-white with dark gray flecking. Facia is metal painted light gray. All window mullions, door frames, and metal trim are aluminum. Light gray-brown porcelain enamel faced insulated panels are used in conjunction with the fixed glass.

#### New System

The building is completely air conditioned — no vent sash. Except for main trunk lines all air is being distributed through the cores of the Flexicore slabs. The air is carried in the cores to the outside walls where it is discharged through continuous 4" baseboard registers. Many of these registers occur in the bases of the bookshelving. This is one of the first important applications of this system and it has proved to be very efficient. Con-

View into children's area as you enter library.  
Leroy Flint's mural is seen on the east wall.

Photo Credit—R. Marvin Wilson





siderable savings were realized as a result of the minimizing of sheet metal ductwork.

### Allied Arts

During the preliminary design stage the idea of a mural on the one wall of the Children's area and the possibility of sculpture and/or sculpture and a fountain in the "park area" were conceived. An allowance was provided for the commissioning of an artist to design and execute a mural. Leroy Flint, Curator of Education at the Akron Art Institute, was chosen to design the mural. The theme of the mural reflects the days when an important Indian portage trail passed through the area a few hundred feet from the library site (a street, Portage Path, now follows this trail.) The Indian, animal, and bird figures are formed of welded aluminum wire and colored aluminum panels.

An area organization, the Friends of the Public Libraries of Akron and Summit County, volunteered to sponsor the design and construction of the fountain sculpture and collected funds to finance the project. A design competition was sponsored under the guidance of the Akron Art Institute with all local artists invited to participate. Luke and Roland Lietzke (Luke is Curator of Design at the Akron Art Institute, Roland is a designer at Goodyear Rubber Co., and they are both nationally

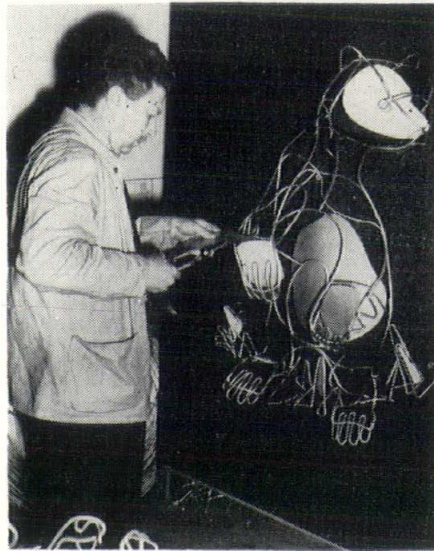


Photo Credit—Irving Achorn  
Leroy Flint is shown as he works on the figure of the bear in the Akron Art Institute.

known designers and producers of porcelain accessories for the home) were first prize winners and were awarded the commission to construct and install the fountain which may be interpreted as a formal abstract flower garden. The three large central elements are made of enameled copper. All of the smaller elements are porcelain shapes, mounted on stainless steel stems and glazed in solid colors of white, yellow and terra cottas. Water sprays from stem members on the large units and is directed into the "cone"

shapes, where it streams out of holes in the base of the cones; splashes over the "mushroom" shapes; or sprays directly onto the surface of the pool. Some of the "button" shapes squirt and bubble water up through the centers.

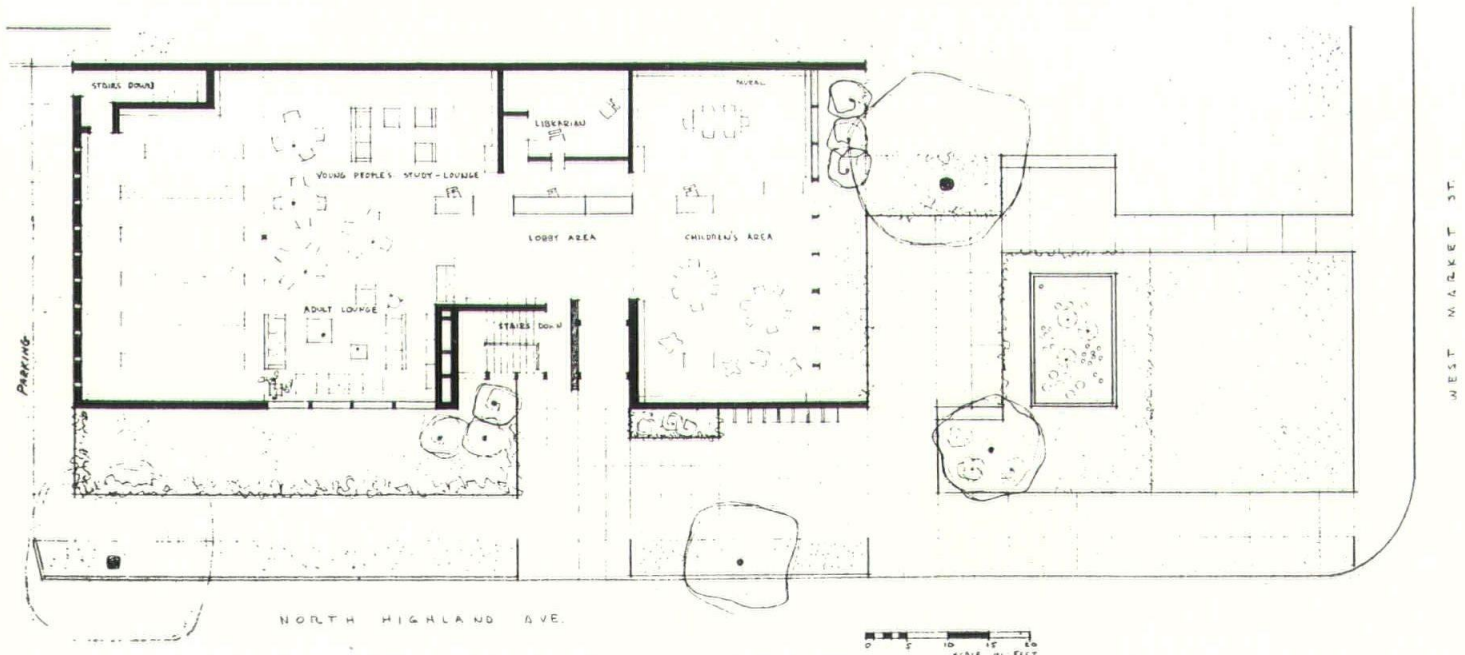
Both the mural and the fountain are fascinating examples of allied art. They are an integral part of the library building. The Architects feel that this is an excellent example of the integration between artists and architects and reflects the importance of the use of allied arts in today's architecture.

### Associates

David R. Simpson, Akron, Ohio, *Structural Engineer*; J. Raymond Carroll, of Konzo, Carroll & Bareither, Champaign, Illinois, *Heating, Ventilating, Air Conditioning Consultants*; Garth Andrew, Garth Andrew Company, Bath, Ohio, *Interior Furnishings*; E. Alessio Construction, Akron, Ohio, *General Contractor*; Leroy Flint, Akron, Ohio, *Mural*; Luke & Roland Lietzke, Mogadore, Ohio, *Fountain*.

### Costs

General Contract for building (including outside concrete work)—\$95,400.00; Landscaping & blacktop parking—\$1,200.00; Steel shelving & file cases—\$6,000.00; Interior Furnishings (includes charging desk, folding chairs, and tables for meeting room) —\$5,250.00.





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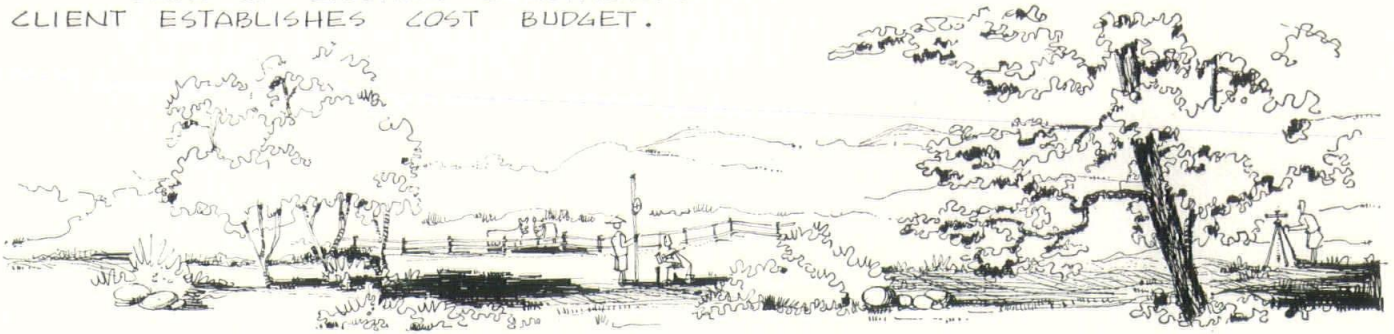
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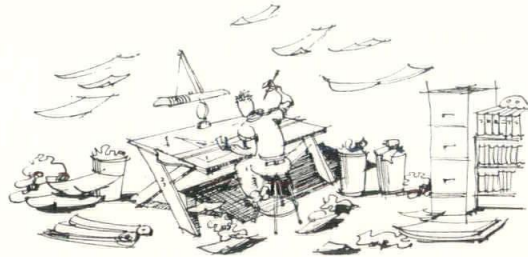


RONALD, WHAT DOES AN ARCHITECT DO? "WELL THE FIRST THING IS TO GET A PENCIL... HERE'S THE WAY A TYPICAL BUILDING PROJECT GOES:"

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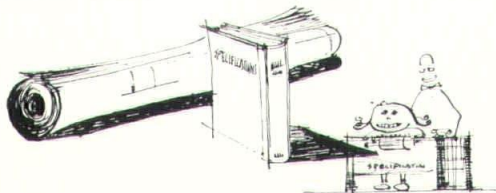


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DIMENSIONED PLANS AND ELEVATIONS. PLOT PLAN, GRADING AND LANDSCAPE WORK. LARGE SCALE WALL SECTIONS AND DETAILS. DOORS, WINDOWS AND ROOM FINISH SCHEDULES. FOUNDATION PLANS AND DETAILS OF ALL STRUCTURAL COMPONENTS ALSO SCHEDULES THAT INDICATE SIZES OF FOOTINGS, COLUMNS, BEAMS, JOISTS, GIRDERS, REINFORCING BARS AND LINTELS. HEATING PLANS OF EACH FLOOR SHOWING SIZES AND LOCATIONS OF HEATING AND AIR HANDLING EQUIPMENT, DUCTS, PIPES CONTROLS, ETC. AND DETAILS AS REQUIRED. PLUMBING AND SANITATION PLANS OF EACH FLOOR SHOWING SIZES AND LOCATIONS OF PLUMBING FIXTURES, VALVES, TRAPS, VENTS, SOIL STACKS, ETC. ELECTRICAL PLANS OF EACH FLOOR SHOWING LOCATION AND SIZES OF METERS, PANEL BOXES, WIRES, CIRCUIT BREAKERS, CONDUIT, JUNCTION BOXES, OUTLETS, SWITCHES, AND LIGHTING FIXTURES AND OTHER EQUIPMENT.



WHILE WORKING DRAWINGS ARE BEING COMPLETED, DETAILED SPECIFICATIONS ARE WRITTEN. SPECIFICATIONS INCLUDE THE FOLLOWING:

NOTICE TO BIDDERS, INSTRUCTIONS TO BIDDERS, PROPOSAL FORM, GENERAL CONDITIONS, AND SUPPLEMENTARY GENERAL CONDITIONS. THE SPECIFICATIONS ALSO DESCRIBE THE QUALITY OF MATERIALS AND WORK, SUCH AS: EXCAVATION, GRADING AND BACKFILLING, CONCRETE AND CEMENT, CONCRETE BLOCK, BRICK, TERRA COTTA OR OTHER MASONRY. INSULATION, ROOFING, SHEET METAL, FLASHING, CARPENTRY, MILLWORK, WATERPROOFING, SHEATHING, ROUGH AND FINISH HARDWARE, LATHING AND PLASTERING, ACOUSTICAL TILE, SASH, GLASS AND GLAZING, MISCELLANEOUS AND ORNAMENTAL IRON, STRUCTURAL STEEL, DOORS AND FRAMES, ASPHALT TILE, TERRAZZO, CERAMIC TILE, PAINTING, PLUMBING, HEATING AND AIR CONDITIONING, ELECTRICAL, AND ANY OTHER MATERIALS AND WORK NECESSARY TO COMPLETE THE BUILDING.

OWNER APPROVES FINISHED WORKING DRAWINGS AND SPECIFICATIONS.



CONTRACTORS ARE INVITED TO SUBMIT BIDS OR ARE NOTIFIED BY ADVERTISEMENT THAT BIDS WILL BE OPENED ON A CERTAIN DATE BY THE OWNER. THE WORKING DRAWINGS AND SPECIFICATIONS FORM THE BASIS FOR THE CONTRACTORS BIDS.

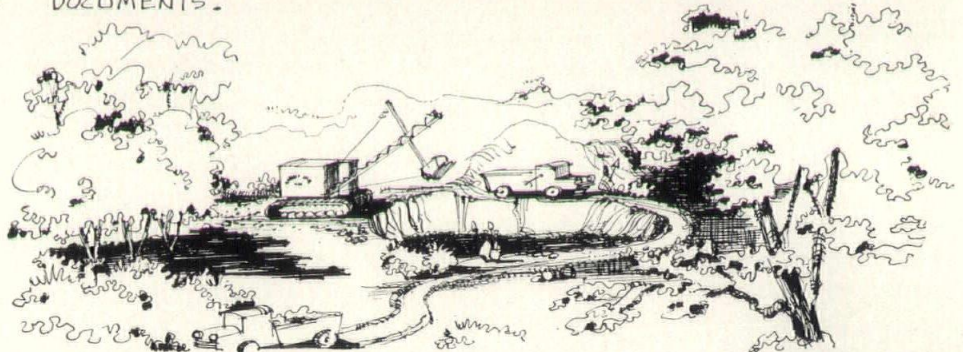
BIDS ARE RECEIVED IN SEALED ENVELOPES FROM ONE OR MORE PRIME CONTRACTORS. SUB CONTRACTORS DO NOT SUBMIT BIDS TO THE OWNER, THEY ARE USUALLY EMPLOYED BY THE PRIME CONTRACTORS. PRIME CONTRACTORS ARE:

- 1 GENERAL CONTRACTOR
- 2 PLUMBING CONTRACTOR
- 3 HEATING AND AIR CONDITIONING CONTRACTOR
- 4 ELECTRICAL CONTRACTOR
- 5 KITCHEN CONTRACTOR
- 6 OTHERS IF REQUIRED

OWNER AWARDS CONTRACTS TO SUCCESSFUL BIDDERS. THE CONTRACTS ARE PREPARED BY THE ARCHITECT. THE CONTRACT, WORKING DRAWINGS AND THE SPECIFICATIONS FORM THE LEGAL CONTRACT DOCUMENTS.

CONSTRUCTION BEGINS -

ARCHITECT MAKES PERIODIC INSPECTION TRIPS TO THE JOB AND INTERPRETS DRAWINGS TO WORKMEN ON THE JOB



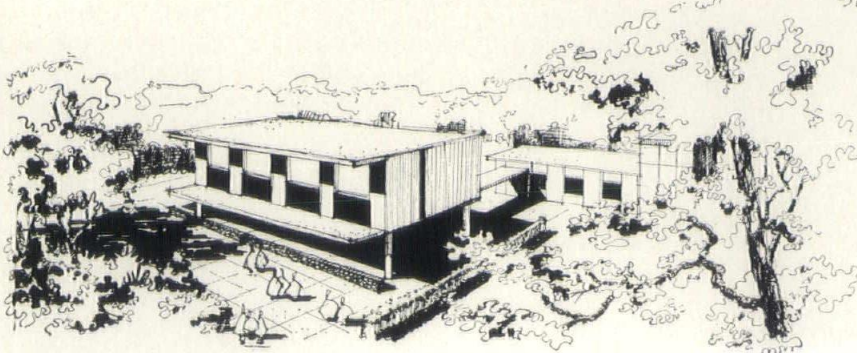
ARCHITECT RECEIVES CONTRACTORS REQUEST FOR PARTIAL PAYMENT. ARCHITECT CHECKS REQUEST AND FORWARDS IT TO THE OWNER. THE OWNER MAKES THE PARTIAL PAYMENT TO THE CONTRACTOR. BANKS AND OTHER LENDING INSTITUTIONS RECOGNIZE THE NEED FOR ARCHITECTS APPROVING CONTRACTORS INVOICES.

ARCHITECT'S STAFF REVIEWS AND CHECKS SHOP DRAWINGS OF THE SHOP ASSEMBLED BUILDING COMPONENTS PRIOR TO FABRICATION.

THE OWNER MAY WANT TO MAKE CHANGES AFTER THE JOB IS STARTED. ALL CHANGES SHOULD BE MADE BY A WRITTEN CHANGE ORDER ISSUED FROM THE OFFICE OF THE ARCHITECT. THE CHANGE ORDER, IF APPROVED, BECOMES PART OF THE CONTRACT DOCUMENTS.

ARCHITECT SELECTS COLORS AND FINISHES THAT ARE TO BE APPLIED TO THE VARIOUS BUILDING MATERIALS. SOME JOBS MAY REQUIRE INTERIOR DESIGN CONSULTANTS.

ARCHITECT MAKES FINAL INSPECTION OF JOB TO DETERMINE IF ALL PROVISIONS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLIED WITH. CONTRACTOR WILL SUBMIT WAIVER OF LIENS. ARCHITECT THEN APPROVES CONTRACTORS REQUEST FOR FINAL PAYMENT.



CLIENT FORMALLY ACCEPTS THE BUILDING THEN MAKES THE FINAL PAYMENT TO CONTRACTORS.

ARCHITECT RECEIVES FINAL PAYMENT OF HIS ADJUSTED FEE.



# Points of Interest



## Cleveland Chapter

Charles Rimer

Ward & Conrad  
226 Hanna Bldg.  
Cleveland, Ohio



## Columbus Chapter

Carl Treffinger

583 Franklin  
Columbus, Ohio

## Eastern Ohio Chapter



Joseph Tuchman  
777 W. Market St.  
Akron, Ohio

The Cleveland Chapter AIA held its final meeting of the 1955-56 year at Wiegands Lake, Novelty, Ohio. Bermuda shorts and sport clothes were in style, activities of the day including swimming, baseball, horseshoes and other informalities with all the refreshments that could be consumed.

### Baseball Game

The traditional baseball game again matched the old-timers against the younger architects. The old timers proved themselves very much young by winning with a slim lead (to be exact, a flip of a coin). Outstanding players were Jim (Mantle) Bevel, who cracked three home runs and Joe Weinberg, fielding brilliantly for the old timers. Dick Duer and Rudy Tichy were the stars of the contemporaries.

### Horseshoe Tourney

Joe Ceruti and Howard Cain, holders of last year's championship horseshoe title, lost in the first round and were not contenders for this year's championship. Surprise of the tournament was the team of Tichy and Rimer, who took all comers, but finally lost to the steady play of Wade & Scott, this year's champs. Next year, at the same place, the championship will be defended by Wade & Scott and they have promised to take on all participants. The wives and friends kept score and cheered on their favorite teams.

### Farewell to Lottie

A delicious buffet dinner was served in the evening. After dinner events included a ceremony honoring Lottie Helwick for her fine service to the Cleveland Chapter.

Mansfield and environs served as an excellent locale for the recent social meeting of the Columbus Chapter. Things started with an afternoon tour of the area, and in particular, Kingswood Center, just west of Mansfield—a spot lovely enough to make those of us who were unable to join in that part of the activities a bit envious. The bulk of the members began to appear, as usual, when the party adjourned to the Fairway Club east of Gallion for cocktails and dinner. The efforts of Mr. Conard in supplying the former to some fifty guests thoroughly enjoying the pre-steak interval will not be forgotten. After a dinner that satisfied all present, President Albert F. Tynan raised several topics, one of which was the report of the Columbus Metropolitan Committee on Urban Redevelopment. ASO dues were discussed with the implication that local ones would be increased in the coming year. This would seem not only inevitable but desirable.

Also going up apparently is the local Public Relations Budget. It is my understanding that the Budget sub-committee has requested that the Public Relations Committee explain its needs more fully. There is no question but what Public Relations are desperately needed and that more money will have to be spent to obtain them. But it does seem fair to ask the question, "How is the money to be spent?" Should we all be accused of dreaming if we expect to see results?

Mr. Tynan concluded the meeting with congratulations to the Mansfield group and Thomas G. Zaugg in particular for a splendid evening—a sentiment that was shared by all.

The Eastern Ohio Chapter started off the new year with a big success. The attendance was good and we nearly had one expected but not counted guest. Just before cocktails and as member Gordon Canute came off the golf course, Maxine Zuber, Past Prexie Dick's wife, came running up to Canute telling him to get a move on. Mrs. Canute, Nancy, being in a family way was anxious to take the ride to the hospital. Canute's firm now has a new potential draftsman, Brent Canute, who made his appearance at 10:30 P.M.

Among the many distinguished visitors at our meeting were Mr. and Mrs. L. Worley, A.S.O. President, Mr. and Mrs. M. O'Shea, A.S.O. Building Code chairman from Toledo, and Cliff Sapp, with his new cohort Frank Swanson, from the A.S.O. Executive office.

The gals spent the afternoon at Congress Lake while the Architect type divot diggers, chewed up the Shady Hollow Golf Course. We even had a low of 78 for 18, by B. Wykoff who beat his boss John McKenzie's 79. It's said he's looking for a new drafting job—You should not outplay your boss. Cocktails were excellent and the Smorgasboard was enjoyed by all. Proof being the continuous flow back to the Board for thirds and fourths—but who could resist it!

A.S.O. President Worley and Executive Secretary Sapp spoke of the year's activities. After the usual introductions, the women folk retired to their book revue and such, while the Architects listened to a panel discussion.

The Subject was the proposed Ohio State Code and sitting in with Mike O'Shea and Cliff Sapp were Dick Lawrence and Charlie Marr. A lot of interesting points were discussed and a transcript of the discussion is being forwarded to Jim Easton, the author of the Code. Cliff will print the highlights



in a future issue of Ohio Architect.

Our next meeting is scheduled for October, in Youngstown, Ohio. We hope to have someone from the St. Lawrence Seaway Authority, as our speaker. It could be a very thought provoking program—Hope to see you there.

We have received notice from the Octagon that we have four new corporate members. We are glad to welcome them and hope all our other members come out to Youngstown to meet Earl Neff and Bernard Kaminer, of Akron, Jay Cox of Canton, and Thomas Ross of Massillon, Ohio.

## Toledo Chapter

Harold  
Munger

601 Security Bldg.  
Toledo, Ohio



Toledo Chapter Architects are all a-buzz over the forthcoming A.S.O. Convention, October 10, 11, 12, at the Commodore Perry Hotel in Toledo. It seems as if they are living, breathing, sleeping convention. They are firmly resolved that the 23rd Annual Convention will be the best to date.

I hear by the "grapevine" that Mrs. Nelson Thal, ladies program chairman, is preparing many unique features for the pleasure of the ladies in attendance at the Convention.

As for the Architects themselves, there will be much of great interest and extreme practical value in respect to the profession. Entertainment and items of special interest of a non-business nature are also included on the agenda.

From the standpoint of the Great Lakes Regional Meeting, this annual fall meeting at the Convention is usually the most successful of any throughout the year. Mail has been released with complete registration information.

Several luncheons and special meetings have been held. Much work has been in preparation for this Convention. At this time, all items on the program have been completed and appear in this issue.

Splendor of Toledo invited architects

to visit their Splendor Open House, August 6 thru 11. Refreshments were served.

Many new young faces are being seen these days in the various architectural offices of Toledo. Another summer with many college students and summer employment, this year's group appears to be very capable. Some are graduates and will be permanently in Toledo. A partial list, hurriedly gathered shows Charles Stark, *University of Cincinnati*, Dave Lewis, *Rhode Island School of Design*, Edward Kime, *University of Cincinnati*, and Dick Howard, *University of Detroit* with Bellman, Gillette and Richards; Paul Newcamer, *Ohio State University*, Bob Seyfarge, *University of Miami*, Joe Vykopal, *University of Miami*, Joe Angel, back from service, with Charles Barber and Associates; Denny Queenan, *University of Cincinnati*, Dave Zurn, *University of Michigan* with Britsch, Macelwane & Associates; Byron L. West, graduate of *University of Michigan*, John A. Garner, graduate of *Ohio State University*, Gene A. Smith, *University of Toledo*, Robert R. Lackney, *North Carolina State University*, Rudy M. Meador, *Wittenberg College* with Munger Munger & Associates; Dale Little and Paul Downing with Herman Feldstein; Don Metzger with Peterson-Hoffman & Associates; Ronald Converse with Horace Wachter; Richard Havilland, Clarence Yeager, Edwin Cakrzewski with Hoke & Nickerson; Raymond Dillion, R. Schnell with Hahn & Hayes.

July 13 through July 15, at the University of Notre Dame, a seminar for Architects on parish planning was conducted. Moderator for this seminar was Mr. Frank Montana, Head, Department of Architecture, University of Notre Dame.

Mr. Harold H. Munger, Toledo, attended and said he saw many familiar faces from Ohio. The seminar dealt directly with the essential elements of a parish. It was conducted particularly for the Architects, Artists, and Clergy.

Listed here is a partial list of new architectural work that might be of interest to the visiting conventioners in the Toledo area. Peterson-Hoffman and Associates' Christ Church Methodist

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and Addition to Ottawa Hills High School, Toledo, Ohio; Bellman, Gillette & Richards' Office Building at 1600 Madison Ave., Y.W.C.A. Building, Ottawa Park Medical Group, Toledo, Ohio and their Lady of Lourdes Church, Genoa, Ohio; Munger Munger & Associates' Toledo State Receiving Hospital Building, New Music Building, Prout Hall, 1955 Residence & Dining Hall—Founders' Quadrangle, Bowling Green State University, and Perrysburg Elementary School, Perrysburg, Ohio; Charles Barber & Associates' State Highway Building, Red Cross Building, Bowling Green, Ohio, J. M. Little Building, Maumee, Ohio, and the New Toledo Express Airport, Toledo, Ohio; Herman Feldstein's New Mid-City Motel, Toledo, Ohio; Britsch, Macelwane & Associates' Addition to St. Ursula's Academy, Remodeling Catholic Office Building, Toledo, Ohio and Additions to St. Clement's Elementary School, Trilby, Ohio; Hoke & Nickerson's New Rossford Savings Bank and Community Buildings, Rossford, Ohio and New Residence for Dr. and Mrs. Donald Campbell, Bowling Green.





Leon M. Worley, President  
Architects Society of Ohio



Bergman S. Letzler, AIA  
Great Lakes Regional Director

## 23rd Annual Convention

# Architects Society of Ohio and the Fall Meeting of the Great Lakes Region American Institute of Architects

October 10, 11, 12

1956

Commodore Perry

Hotel

Toledo

The General Convention Committee, headed by Architects Carl C. Britsch and Orville Bauer, have assembled an entertaining, educational, and interesting program for the architects of Ohio.

It is the hope of the Committee and the Executive Board of the ASO that as many architects as possible will attend. In addition to the fine programs, an excellent building materials exhibit will take place. This show will enable the architect to keep abreast of current developments in materials and processes and will be an important adjunct to the overall convention.

### First Day

Wednesday, October 10, the Con-

vention will be underway. The Executive Board will be in session all day until 4:00 P.M. Exhibitors will be busy setting up their displays.

Registration on the mezzanine will open for architects, wives, exhibitors and special guests at 5:00 P.M. The Executive Board's Annual Dinner will start at 6:00 P.M.

The meeting will open for everyone at the Wednesday evening (8:30 P.M.) "Ice Breaker" party in the Crystal Room. Be sure to attend this function for a gala evening of refreshments, dancing, music and fun with fellow-architects and their wives. Tate's Midway Night Club orchestra will provide music and fun. Refreshments will be supplied by the Producers' Council—

for which the ASO says "thanks."

### Second Day

Thursday morning, October 11, the Convention will be in full swing with Registration continuing on the mezzanine.

Exhibits will open in the Patio Room and Ballroom at 8:30 A.M. with a friendly coffee hour in the Foyer of the Ballroom. Visit the Exhibitors during this time.

The ASO Business Session starts promptly at 9:30 A.M. Voting members are urged to attend to discuss the activities of the Society, as well as to help determine the new dues structure.

The State Producer's Council will

OHIO ARCHITECT



meet in the French Room to discuss their state activities.

Charles Barber, Toledo Chapter President, will preside over the luncheon which will be followed by a speech from Zoyd M. Flaher, Director of the Department of Public Works, State of Ohio.

The Great Lakes Region, AIA, Business Session will be followed by a Seminar on Architectural Education, moderated by Charles E. Firestone, FAIA, of Firestone and Motter, Canton. Panel members are: Wells Bennett, FAIA, University of Michigan; Frank Montana, AIA, University of Notre Dame; Ernest Pickering, FAIA, University of Cincinnati; Walter A. Taylor, AIA, American Institute of Architects; and Elliot L. Whitaker, AIA, Ohio State University.

Charles E. Firestone, FAIA, was born in Ohio in 1890. He studied Electrical Engineering at Ohio State University, and in 1914 he received a degree in Architecture from the University of Michigan.



Firestone

At present Mr. Firestone is a partner in Firestone and Motter of Canton. He has been an architectural consultant on many public and industrial buildings. He has served two terms on the State Board of Examiners of Architects of Ohio and was President of the Board last year.

Wells Ira Bennett, FAIA, professor of architecture and dean of the College of Architecture and Design, was born in Red Creek, New York.

He was graduated from Fair Haven High School, N. Y. in 1907. He received the degree of Bachelor of Arts from the College of Architecture, Syracuse University, in 1911 and the degree of Master of Science from the College of Architecture, University of Michigan in 1916. He received the degree of Doctor of Fine Arts from Syracuse University in 1947.



Bennett

Dean Bennett came to the University of Michigan as an instructor in the College of Engineering and Architecture, holding that position from 1912 to 1919, when he became assistant professor. In 1937, he became director of the College of Architecture. He has been dean of the College of Architecture and Design since 1938.

Francesco Montana, AIA, was born in Italy, October 26, 1911. He received a Bachelor's degree in Architecture, at New York University, and is a graduate of Ecole des Beaux Arts, Paris, France.

In 1936 Mr. Montana received the Paris Prize in Architecture, which is a scholarship for three year study in France. He also received the Medal of Architectural Distinction for the best design of an Airplane Base, in Midway Island.



Montana

He was Professor of Architectural Design, at University of Notre Dame from 1939-1947, and in 1950 became the Head of Department of Architecture at Notre Dame.

Mr. Montana is a member of the American Institute of Architects, Indiana Society of Architects, Architects of St. Joseph Valley, and Beaux Arts Institute of Design. His professional experience includes Educational, Religious, Residential, and Commercial buildings.

Mr. Ernest Pickering, FAIA, has a B.S. degree in Architecture from the University of Illinois, and a B.S. in Architectural Engineering from the University of Kansas.



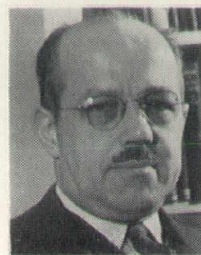
Pickering

Mr. Pickering studied at Ecole des Beaux Arts, Paris, France. He was the Professor of Architecture at the University of Cincinnati, and in 1946 became the Dean of College of Applied Arts. Mr. Pickering received the Medal of Societe des Architectes Diplomes par le Government of France.

He is a member of the Archaeological Institute of America, Architects Society of Ohio, past director, MacDowell Society, Scarab, Delta Upsilon Fraternity and an honorary member of Omicron Delta Kappa.

He has been the president of National Association of Schools of Design since 1950, and is also the author of several well known books.

Walter A. Taylor, AIA, Director of Education and Research for the Institute will participate on the panel. He has won wide recognition in the profession for outstanding work in developing Institute programs which keep the practicing architect in the lead of programs in planning, design, and building technology.



Taylor

Mr. Taylor's broad experience as a scholar, teacher and practicing architect qualifies him as an excellent source of knowledge for architects.

Mr. Elliot Leonard Whitaker, AIA, became the director at Ohio State University in the school of Architecture and Landscape Architecture in 1950.



Whitaker

Prior to that he was the professor of Architecture at Syracuse University and Pennsylvania State College.

Mr. Whitaker was architectural consultant to a number of leading architectural firms in the United States. Also, he has worked on schools, churches, commercial and residential buildings.

Mr. Whitaker studied and traveled extensively in Europe. He graduated with an architectural degree from M.I.T. in Cambridge, Massachusetts, in 1935 with honors.

He has participated in professional activities, and has received numerous awards and honors for his writings. In 1955 he was appointed by the President of the AIA to a six year term to the National Architectural Accrediting Board.

The evening will consist of a Social Hour sponsored by the Libbey-Owens-Ford Glass Co., Owens-Corning Fiberglass Co., and the Owens-Illinois Glass



Co., which will be followed by a dinner.

Leon Chatelain, Jr., FAIA, President of the American Institute of Architects will be the featured speaker. He will talk on "The Institute's Coming Centennial." (See June *Ohio Architect* for President Chatelain's biography.)

### Third Day

The morning of Friday October 12, Exhibitors will be honored by the Architects Society of Ohio at a breakfast. The day's business session will include the election of ASO officers for the term 1956-57.

Friday's luncheon will be presided over by Bergman Letzler, Great Lakes Regional Director of the AIA, and the featured speaker will be Leslie E. Thal, who will speak on "The St. Lawrence Seaway and Its Impact on the Great Lakes Region."

"Maumee Bay is the first thing I see in the morning and the last thing at night" according to Mr. Thal. He has lived on the shores of Lake Erie since childhood. A sailing enthusiast, he has been active in promoting sail-boat races in the Toledo area for many years.

Mr. Thal has shown an active interest in ships and the Port of Toledo since his youth. Even during his school and college years (he graduated from Ohio State University with a law degree in 1925) he was a port enthusiast and began then to take part in the long fight for



Thal

Port Authority legislation in Ohio.

This long-time promoter of the Port of Toledo was appointed to the Toledo-Lucas County Port Commission by Mayor Lloyd E. Roulet on August 5, 1946 and elected Vice President on September 10, 1956. He was elected President of this body on October 31, 1950 and served in that office until his resignation on February 1, 1955.

With the passage in 1954 of the Wiley-Dondaro Bill authorizing the creation of the St. Lawrence Seaway the long years of work culminated in 1955 when Governor Frank J. Lausche signed the Port Authority Act. Since that time Mr. Thal has continued to



Leon Chatelain, Jr., FAIA  
President, American Institute of Architects

give freely of his time and effort in helping the new Toledo-Lucas County Port Authority become established.

In the afternoon, architects only, will be permitted to tour the Flat Glass Division of the Libbey-Owens-Ford Glass Company to view their new "twin-grind operation" and their Thermopane Division.

At 6:00 P.M. the Presidents Reception will start. This affair will be followed by the Annual Banquet. President Leon M. Worley will preside. The speaker will be Dr. Tennyson Guyer, who will speak on "Blueprints for Tomorrow."

Tennyson Guyer made his debut on the Platform at 19, and now has to his credit 7500 audience appearances. He captivated the International Lions Convention at Atlantic City. Mr. Guyer is well known as "Ohio's Ambassador of Good Will," and is unanimously acclaimed the most sought after speaker of the United States.



Guyer

In every subject on which he speaks, he portrays a touch of Will Rogers, Mark Twain, and William Jennings Bryan. A Laugh or a Tear—Memorial or Memory. He has a good philosophy for home, heart, and happiness.

Mr. Guyer was awarded Five Hon-

orary Doctor's Degrees, traveled in Europe and Asia, and has spoken in all 48 states, Canada and Cuba, and still makes 300 speeches a year. He is now Executive Assistant and Director of Public Relations for the Cooper Tire and Rubber Company of Findlay, Ohio.

Mr. Guyer keeps busy with church, civic, and community activities but keeps happy by "making every day a holiday and every meal a banquet."

Dr. Guyer's talk will be followed by the Installation of Officers for the year 1956-57. The newly elected President of the ASO will make his remarks and formally adjourn the 23rd Annual Convention of the ASO.

## So You Want to Win A Door Prize—Here's How!

Some excellent door-prizes for architects have been arranged for presentation at the Convention. Be sure to see them in **Ohio Architect** Booth No. 40.

Only architects registered at the Convention are eligible to win. Here's how:

You will be assigned a number when you register or when you pick up your Convention packet if you are Pre-Registered. This number will be typed on your Badge. Each Exhibitor will have your number printed on a slip of paper at his Booth. When you visit him be sure to ask for the number so you can drop it in the Box at his Booth.

Sometime Friday afternoon one of these Boxes will be selected and the numbers drawn. They will be winners of the Door Prizes.

### HINTS ON HOW TO INCREASE YOUR CHANCES

It's simple. Visit with each and every Exhibitor and drop your number in his Box.

### THIS MONTH'S COVER

Cover design by Orville H. Bauer. Art work of map and composite of Toledo buildings taken from Chamber of Commerce map designed by John N. Richards.

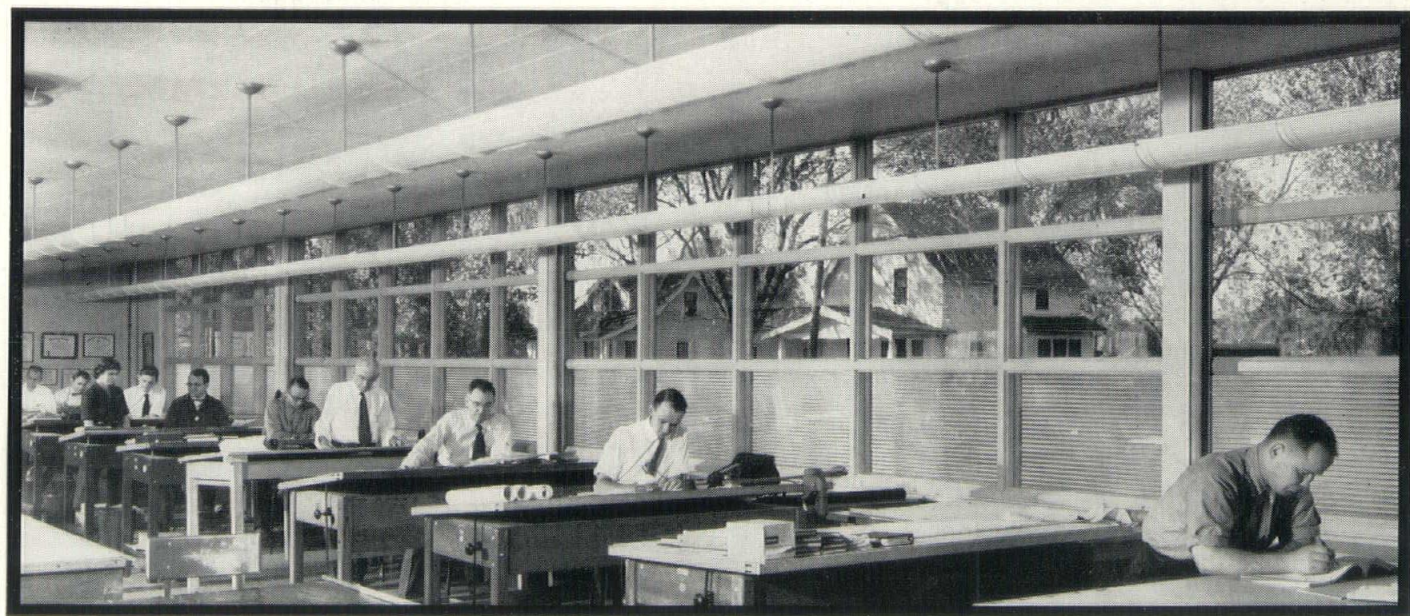
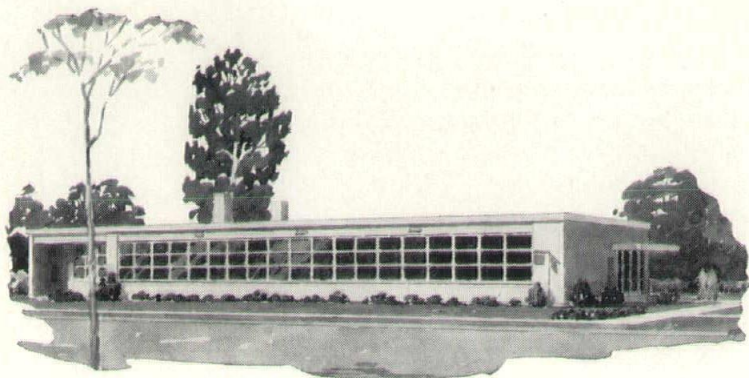


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# Your Official Program—Hour By Hour

## Men's Program

### Wednesday, October 10

#### Morning

10:30 A.M.

EXECUTIVE BOARD MEETING  
—English Room

#### Afternoon

12:00 M. - 4:00 P.M.

EXECUTIVE BOARD  
LUNCHEON and MEETING—  
French Room

5:00 P.M.

REGISTRATION OPENS —  
Mezzanine

#### Evening

6:00 P. M.

EXECUTIVE BOARD ANNUAL  
DINNER—Continental Room

7:30 P.M.

PRODUCT EXHIBITS OPEN —  
Patio Room and Ballroom

8:30 P.M. - ??

ICE BREAKER PARTY — Crystal  
Room

TATE'S NIGHT CLUB  
ORCHESTRA

COMPLIMENTS OF SHERWIN  
WILLIAMS PAINT CO.

REFRESHMENTS  
COMPLIMENTS OF  
PRODUCER'S COUNCIL

### Thursday, October 11

#### Morning

8:30 A.M.

REGISTRATION CONTINUES—  
Mezzanine

8:30 - 9:30 A.M.

COFFEE HOUR—Ballroom Foyer

8:30 - 9:30 A.M.

VIEW PRODUCT EXHIBITS —

9:30 - 11:00 A.M.

ASO BUSINESS SESSION —  
Rooms 2, 3 & 4

Leon M. Worley, President, ASO,  
presiding

9:30 - 11:00 A.M.

STATE PRODUCER'S COUNCIL  
MEETING—French Room

11:00 - 12:00 M.

VIEW PRODUCT EXHIBITS

#### Afternoon

12:00 M.

LUNCHEON—Ballroom

Presiding: Charles L. Barber, Pres-  
ident, Toledo Chapter AIA

Invocation: Dr. Morton Goldberg,  
B'Nai Israel Temple

Greetings: The Honorable Ollie  
Czelusta, Mayor of Toledo

Speaker: The Honorable Zoyd M.  
Flaler, Director of the Depart-  
ment of Public Works, State of  
Ohio

Subject: "The State of Ohio's  
Building Program"

1:30 - 2:00 P.M.

VIEW PRODUCT EXHIBITS —

2:00 - 2:30 P.M.

GREAT LAKES REGIONAL  
BUSINESS SESSION —

Rooms 2, 3 & 4

Presiding: Bergman S. Letzler, Re-  
gional Director, AIA

2:30 - 4:30 P.M.

SEMINAR ON ARCHITEC-  
TURAL EDUCATION—

Rooms 2, 3 & 4

Moderator: Charles E. Firestone,  
FAIA, Past-President National  
Council of Architectural Regis-  
tration Boards, Firestone and  
Mottet, Architects, Canton, O.

Participants: Wells Bennett, AIA,  
Dean College of Architecture  
and Design, University of  
Michigan

Frank Montana, AIA, Head,  
Department of Architecture,  
University of Notre Dame.

Ernest Pickering, FAIA, Dean  
College of Applied Arts, Univer-  
sity of Cincinnati

Walter A. Taylor, AIA, Director  
of Education and Research,  
American Institute of Architects  
Elliot L. Whitaker, AIA, Di-

rector, School of Architecture  
and Landscape Architecture,  
Ohio State University

4:30 - 6:30 P.M.

VIEW PRODUCT EXHIBITS

#### Evening

6:30 P.M.

SOCIAL HOUR — Continental  
Room

COMPLIMENTS OF THE LIB-  
BEY - OWENS - FORD GLASS  
CO., OWENS - CORNING FIB-  
ERGLAS CO., AND THE OW-  
ENS - ILLINOIS GLASS CO.

7:00 P.M.

DINNER — Crystal Room

Presiding: John P. Macelwane,  
First Vice-President, ASO

Invocation: Monsignor Micheal J.  
Doyle

Introduction: John Noble Rich-  
ards, FAIA, First Vice-President  
American Institute of Architects

Speaker: Leon Chatelain, Jr.,  
FAIA, President American In-  
stitute of Architects

Subject: "The Institute's Coming  
Centennial"

### Friday, October 12

#### Morning

8:00 - 9:00 A.M.

EXHIBITORS BREAKFAST —  
Toledo Room

Presiding: Charles Marr, Second  
Vice-President, ASO

8:30 - 9:30 A.M.

REGISTRATION CONTINUES—  
Mezzanine

9:30 - 11:00 A.M.

ASO BUSINESS SESSION  
ELECTION OF OFFICERS—  
Rooms 2, 3 & 4

Presiding: Leon M. Worley, Presi-  
dent, ASO

11:00 - 12:00 M.

VIEW PRODUCT EXHIBITS—



## Ladies Program

### Afternoon

12:00 M.

#### LUNCHEON — *Ballroom*

*Presiding:* Bergman S. Letzler,  
Director, Great Lakes Region,  
AIA

*Invocation:* Reverend Arthur W.  
Hargate, Trinity Episcopal  
Church

*Speaker:* Leslie E. Thal

*Subject:* "The St. Lawrence Sea-  
way and Its Impact on the  
Great Lakes Region"

1:30 - 4:30 P.M.

TOUR FLAT GLASS DIVISION  
OF THE LIBBEY-OWENS-FORD  
GLASS COMPANY—(Transporta-  
tion provided at the Jefferson Street  
entrance.)

4:30 - 5:30 P.M.

VIEW PRODUCT EXHIBITS—

### Evening

6:00 P.M.

PRESIDENT'S RECEPTION—  
*Continental Room*

7:00 P.M.

ANNUAL BANQUET — *Crystal  
Room*

*Presiding:* Leon M. Worley, Presi-  
dent, ASO

*Invocation:* Mr. Ralph F. Stewart,  
Christian Science Committee on  
Publications for Ohio

*Introductions and Awards*

*Speaker:* Dr. Tennyson Guyer

*Subject:* "Blueprints for To-  
morrow"

*Installation of New Officers*

*Remarks of New President  
Adjournment*

### Wednesday, October 10

Wives of Toledo Architects will be  
on duty at the Registration Desk to  
answer questions and to assist you in  
any way possible. A Ladies Lounge  
will also be provided.

8:30 P.M. - ??

ICE-BREAKER PARTY — *Crystal  
Room*

Refreshments Compliments of  
Producer's Council

### Thursday, October 11

#### Morning

This is your chance to "sleep in," get  
together with your gal-friends for a  
koffee klatch, go on a shopping spree,  
or just do a little sight-seeing.

#### Afternoon

12:00 M.

LUNCHEON AT THE TOLEDO  
CLUB

Transportation provided at Jeffer-  
son Street entrance to Commodore  
Perry. Be there a few minutes be-  
fore noon.

1:30 P.M.

MONTE CARLO PARTY AT  
THE TOLEDO CLUB

This will prove to be a most ex-  
citing event for the ladies. Some  
wonderful prizes have been ar-  
ranged—don't miss this.

6:30 P.M.

SOCIAL HOUR — *Continental  
Room*

This is with the men. Refresh-  
ments are compliments of the Lib-  
bey-Owens-Ford Glass Co., Owens-  
Corning Fiberglas Co., and the  
Owens-Illinois Glass Co.

7:00 P.M.

DINNER—*Crystal Room*

(See Men's Program)

### Friday, October 12

#### Morning

Free to do as you please!

#### Afternoon

12:00 M.

LUNCHEON AT THE PARK  
LANE HOTEL

Transportation provided at Jeffer-  
son Street entrance to Commodore  
Perry. Be there a few minutes be-  
fore noon.

1:30 P.M.

SURPRISE AT THE PARK LANE  
HOTEL

You'll enjoy this delightfully dif-  
ferent and entertaining event—  
don't try to figure it out! Just at-  
tend.

#### Evening

6:00 P.M.

PRESIDENT'S RECEPTION —  
*Continental Room*

7:00 P.M.

ANNUAL BANQUET — *Crystal  
Room*

(See Men's Program)

### Be Sure To Visit With The Exhibitors



Britsch

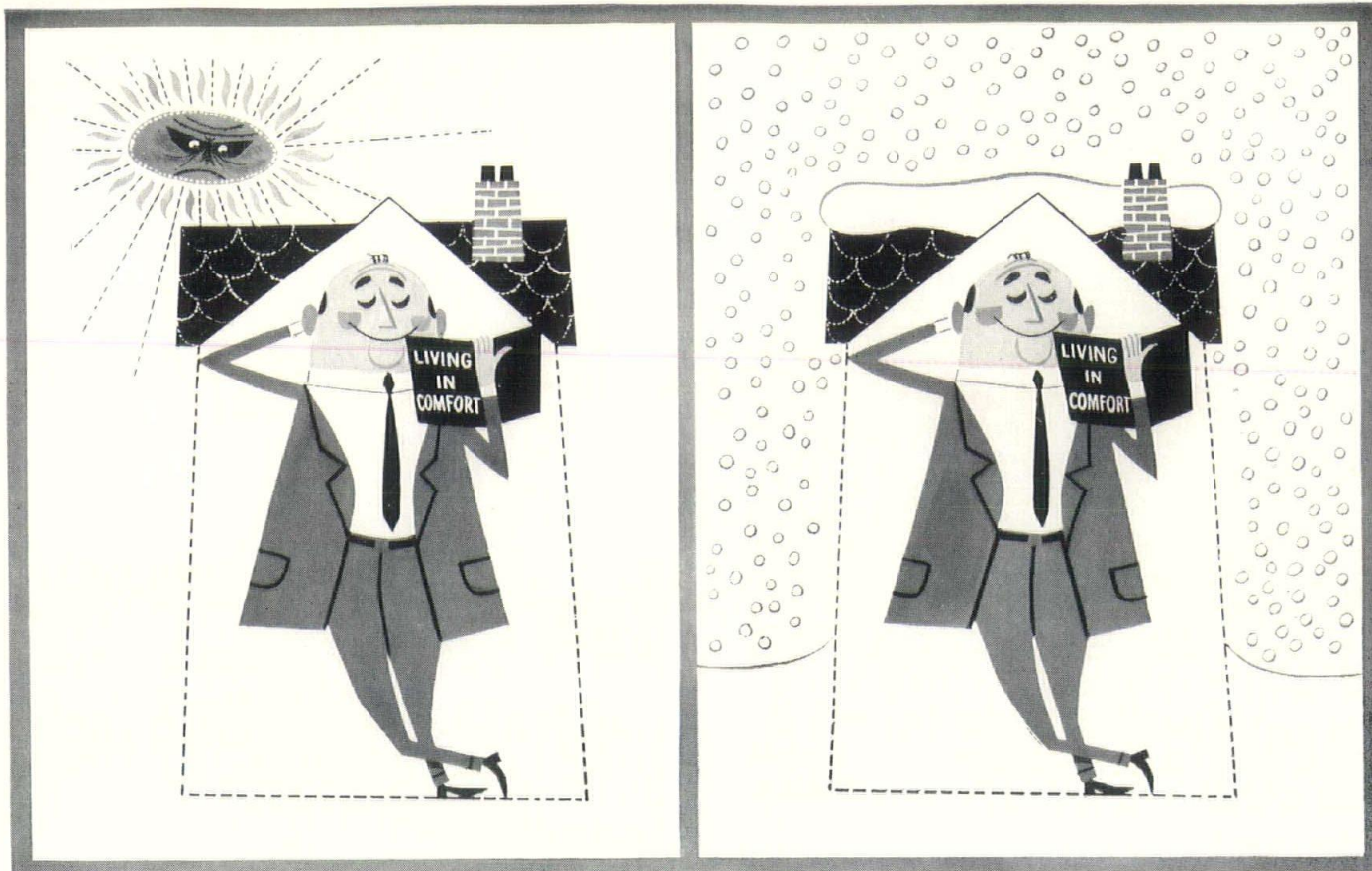


Bauer

Both General Convention Chairman  
Carl C. Britsch and Co-Chairman Or-  
ville Bauer, along with the entire Con-  
vention Committee, urge all architects  
to visit the numerous displays. Much  
can be learned there.

Messrs. Britsch and Bauer and their  
committees are to be praised for their  
fine efforts in producing the Conven-  
tion and Exhibit.



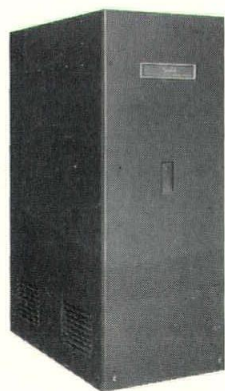


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Clients are more easily satisfied when plans include such desirable features as Gas year-'round air conditioning. From experience, they know the advantages of automatic gas heat . . . and now, the same economical, dependable fuel provides air conditioning, too . . . either in one compact unit that heats in winter and cools in summer—or as a separate cooling unit.

There's a Gas air-conditioning unit for every need, a size for homes, apartments or commercial buildings.

With Gas air conditioning, low operating cost is only one of many features that appeal strongly to prospective owners. Uninterrupted service, too—possible only with gas—is another important factor.



### The trend today is to modern year-'round GAS air conditioning because . . .

1. A single GAS unit does *both* jobs—cooling and heating.
2. GAS saves up to 50% on operating costs.
3. GAS units save on maintenance, too. There are no moving parts to get out of order.
4. Installation costs are low.
5. With silent GAS, there are no noise or vibration problems . . . there is no compressor.
6. Push-button operation simplifies control.
7. GAS units automatically adjust to load.
8. Wide range of sizes is available—from 2-ton to 700-ton units.
9. Modern GAS units are designed for every domestic and commercial use.

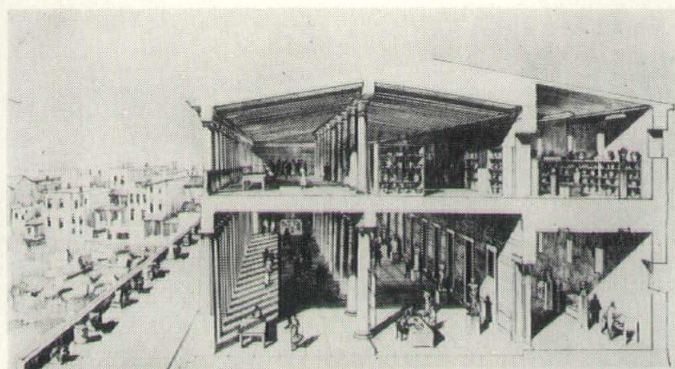
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## AMERICANS RESTORE GREEK RUINS



Modern American architect and engineering techniques are being used to restore one of the oldest and most beautiful buildings of ancient Greece.

The Stoa of Attalos was built as a symbol of Grecian art and learning long before the birth of Christ. It stands in the shadow of the famous Acropolis in Athens. The Stoa was one of the most beautiful buildings which formed the culture and political heart of ancient Athens. The center also housed shops, offices, and wholesale markets.

W. Stewart Thompson of the firm W. Stuart Thompson, Felps Barnum, of New York City, is the architect for the restored Stoa. It will look substantially like the original and will be used as a museum for the thousands of priceless treasures that once graced this center.

Modern engineering techniques will be used to supplement the original construction. The first timber-roof beams will be simulated by the use of laminated wood members designed by The Rilco Laminated Products, Inc., and manufactured at the Rilco plant at Albert Lee, Minn.

Much of the marble fitting and furnishing will be done in the same manner of the ancient Greeks.

The reconstruction began 25 years ago when the American School of Classical Studies decided to excavate the site.

Barbarians from the north plundered and destroyed the building in 267 B.C. In the centuries that followed, the ruins were covered with earth and the area became residential.

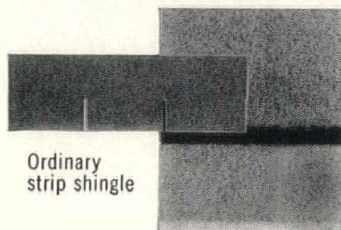
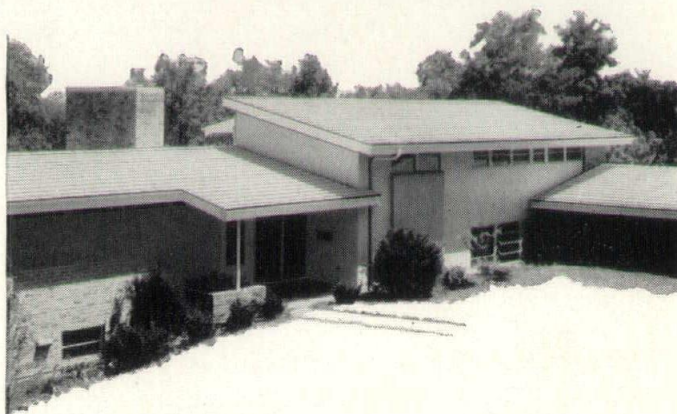
Recently more than 60,000 statues, vases, metallic pieces, and whole structural members dating from 6000 B.C. have been found. Thus it was possible to reconstruct the complete Stoa on paper and make plans for its rebuilding.

SEPTEMBER, 1956

## Fire-Chex '400



the new giant  
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for today's low,  
wide-sweeping roofs



Fire-Chex '400

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ordinary shingles.

The Carey Fire-Chex '400 is the long line, wide color exposure shingle designed for today's roofs. At low modern roof angles, ordinary shingles black out, because you see only recurring rows of black butts. But massive ( $18\frac{7}{8}'' \times 24''$ ) Carey Fire-Chex '400 shingles give you *full rich color*, from any angle because Fire-Chex '400 shingles have *almost four times the color exposure of ordinary shingles*. The Fire-Chex '400 is Carey color-styled in four exclusive shadow blends. Underwriters' Class A fire-safety rating down to 1" pitch.

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Carey representative or write  
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CINCINNATI 15, OHIO

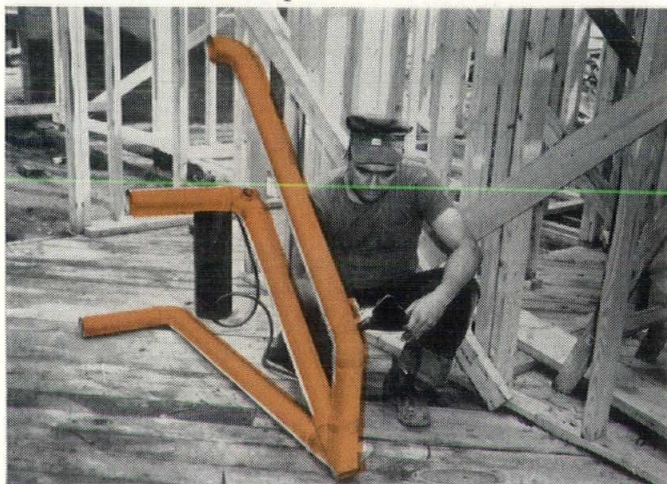
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**Light Weight**—"The light weight of copper tube and fittings makes installation easier and faster—makes possible prefabricated sections like this, for example."



**Prefabrication**—"This double-Y and other sections can be pre-assembled out in the open or at the shop where men can work easier and faster—no lost time waiting for construction."



**Easy to Handle**—"The light weight of copper tube and fittings makes installation easy and fast even in cramped working areas. Our men like to work with copper."



**Save Space**—"Preassembled sections are connected easily. Stacks with fittings were installed in standard width partitions—gave me an extra 10 square feet of useable floor space."

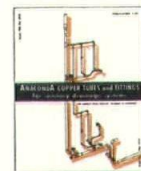


When Harold E. Orr, president of Leopold & Orr, Knoxville, Tenn., built his new home recently, he installed an Anaconda all-copper drainage system. Mr. Orr, who is also president of the Associated Plumbing, Heating & Mechanical Contractors of Tennessee, Inc., reports that installation time was cut more than 50 per cent. His explanations for the saving are quoted under the photos.

For complete information, write for our free booklet, "Copper Tubes for Sanitary Drainage Systems." Address: The American Brass Company, Waterbury 20, Conn. 5602

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# The High Cost of Poor Structural Design

Dr. John B. Scalzi

Associate Professor of Structural Engineering  
Case Institute of Technology

(This article by Dr. Scalzi is being presented in two installments. The second part will appear in the October issue of "Ohio Architect")—Ed.

In the interest of designing for economy we sometimes lose sight of the fact that economy is not just a low first cost. Economy in design of structures should also include the cost of maintenance since the structure should serve the client for a long time. Poor structural design is intended to refer to details of design which are often overlooked and which may lead to maintenance difficulties. These items will be discussed under the following categories.

- A. Proper use of Design Criteria, including loads, codes, and factors of safety.
- B. General Rules for Economy.
- C. Specific Cases for Economical Design.
- D. Field Inspection.

## Design Criteria

For most, present day criteria are available with respect to recommended loads, allowable stresses of materials, methods of analysis, and hints on good practice. It is advisable to refer to these sources because they reflect the experiences and lessons of the past. Our country has enjoyed an enviable record of minimum structural failures, which is due to our careful design considerations.

Live loads represent an assumed loading and they help to provide stiffness.

It is unwise to arbitrarily reduce loadings in the hopes of saving a few pounds of steel or concrete.

## Factor of Safety

Similarly, our allowable stresses are reasonable in the light of the many variables which are assumed to be included in the factor of safety. For example, a simple steel beam has an allowable stress in bending of 20,000 pounds per square inch which provides a factor of safety of only 65% for overloading the beam. At this point the beam will begin to deflect as a result of yielding and the deflection will be-

come excessive. Although the factor of safety against collapse may be larger, who wants sagging floors? Our criteria then changes from allowable stresses to excessive deflections.

## Codes

There are some designers who feel that our codes are too strict and should be changed. It must be remembered that our codes are a recorded list of experiences combined with sound theoretical analysis and any change suggested must satisfy these requirements. To "ease up" on a code requirement without knowing the history behind the development of the requirement, is usually an invitation for trouble and expense.

## Theory

All of our formulas for beams, columns, frames, and connections presuppose a certain set of conditions. Designers must bear these conditions in mind when analyzing and designing the structure. Often there is a great temptation to slight the original conditions and to project an equation into a situation where it does not belong. As an example, a steel beam must be supported laterally in order to insure the development of the maximum allowable stress, but we often overlook the requirement that the loads which produce the bending must lie in the plane of the web of the beam. The original assumption for the beam formula was that the moment of twist be equal to zero. This means that an eccentric load on one side of the beam must be balanced by another on the other side. This situation arises in the design of parapet walls that are placed eccentrically on the beam but have little or no counteracting affect on the other side. Usually the roof produces sufficient forces to balance the parapet but when a joist roof system is used and placed parallel to the spandrel most of the roof load is transferred to the ends of the joists and not on the spandrel beam causing the parapet to rotate and will

require tiebacks to hold it in place. All of these extras unnecessarily add to the cost of the building. It may be a good idea to have the plans reviewed by another designer in order to catch these digressions from theory.

Column design formulas are many and varied. However, the AISC has tried to make them as easy as possible. Nevertheless, they still present a formidable challenge to those that are not too familiar with them. One point that I would like to stress is that the factor of safety is not more than 1.94, and not of the order of 5 to 10 as some people hope. For instance, assume the column is a very short one and we may assume that its allowable stress is 17,000 psi. The factor of safety against yielding and failure is  $33,000/17,000 = 1.94$ . This same condition prevails throughout the entire range of columns up to a slenderness ratio of 120. It must also be remembered that this factor of safety includes the effects of small eccentricities of beams framing into the column. For larger eccentricities the effect should be included in the design of the column. The only one that is not computed is when the beam frames into the web of the steel column.

## General Rules for Economy

There are a few general rules to keep in mind when designing a structure for safety, rigidity, service and economy. The first and most important is to design the structure for minimum volume. This will require less wall and surface areas thus reducing the cost of the entire building. Merely selecting the most economical steel beam for its own weight may be adding two or three inches to the building height. Thus it may be more economical to select a slightly heavier beam and reduce the cost of the related items than it would be to select the lightest beam. A relative cost study must be made in order to select the best design. It may be more economical to reduce the amount of brick work, paint, and partition heights than it is to save a few pounds of steel or concrete.

Our American system of mass production has shown us what can be achieved when we think in terms of standard parts and assembly line tech-

(Continued on page 29)



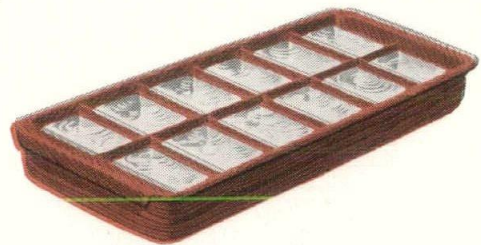
# LET'S FACE FACTS —

Our basic material is fine wood. Our basic products are fine, residential windows. We could make metal windows faster and cheaper—but wood looks better, and works better—longer. We'll stay with wood for frames and sash.



We could have decided to make wooden frying pans with metal handles. But, while making wood comparatively fire-resistant is no great problem, we know of no way to make wood transfer heat. It's too good a thermal insulator. The metal handle would get hot while the wooden pan stayed cool.

Or, we could have gone into the manufacturing of wooden ice cube trays. But, again, wood resists transferring cold—so, ice cube trays made of wood, would be mighty inefficient.



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niques. I am not advocating a standard design for all office buildings, plants, schools and/or hospitals; but simply a consideration of the methods that make our mass production system possible. For example, in designing concrete floors the sizing and placing of steel may be made as uniformly as possible in order to facilitate the placement in the field. Repetitive operations will reduce cost. Beam sizes may be made the same but the steel area within may be varied to suit the loads on each beam. Columns will adjust themselves to the same treatment. A basic column size with steel ranging from the minimum to the maximum permissible values will accommodate a large variety of loads. Tied columns appear to be more economical even at the expense of more material than required in a round one for the same load. The field work and labor of installing a round column versus a tied rectangular one is in favor of the tied column.

The best method of comparing two or more alternate designs is to estimate the cost of each. This study should be made in the early stages of the planning and design in order not to delay the completion of plans. Once the design has been accepted the details may be prepared quickly and efficiently.

As our knowledge of design and construction has increased we have become more precise in our planning. Tolerances and clearances are becoming smaller and smaller until we have reached the point where we should stand back and take a look at our projects. Are we asking the field crew to be too precise when it does not warrant it? Are we allowing enough dimension for a satisfactory performance of our structure. For instance, in planning storage facilities with mechanical aids to assist in the storing, are we leaving sufficient room for the operator to handle the job with ease or are we asking him to have the skill of a watch maker? Perhaps we have been a little too optimistic in our hopes and have gone overboard on our ability to be exact or to design to the nearest inch. A careful study of the job specifications will help in establishing reasonable standards of tolerances and field dimensions.

SEPTEMBER, 1956

## DESIGN NOTES

### Porcelain Panels:

○ ANOTHER JOB THAT  
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## Architect's Display

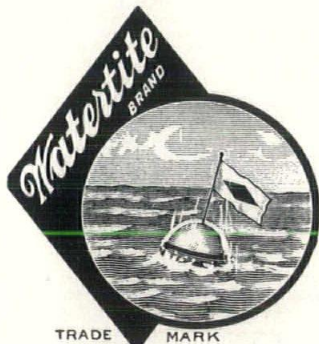
During the recent Ohio State Fair Week thousands of Ohio's citizens viewed an excellent display of new and much needed facilities for Ohio's mental hygiene, correctional and juvenile programs. This exhibit was prepared by the Ohio Department of Mental Hygiene and Correction.

Architectural renderings and scale models of the buildings were prepared by Ohio architects for use in the show, giving Ohio tax-payers a tangible look at what their bond issue and tax dollars will produce for the people of the State.

The Architects Society of Ohio commends Dr. Porterfield and his staff and the architects for this excellent program of keeping the people of Ohio informed.



Department of Mental Hygiene and Health Exhibit at Ohio State Fair.



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## An Open Letter To Architects

Mr. Leon Worley, President  
Architect's Society of Ohio  
Columbus, Ohio

Dear Mr. Worley:

As you know, the Department of Mental Hygiene and Correction is in the midst of the first year of a five year construction program. The funds come from the recently passed bond issue as well as from general appropriations.

Currently the staff of this Department is working with twenty-one architectural firms throughout the State of Ohio. They are developing plans which include new modern prison facilities, juvenile diagnostic and treatment buildings and numerous hospitals for the care of the mentally ill.

In order to obtain the very best functional plan while at the same time applying the new concepts in handling of prisoners, the care of juveniles and the modern treatment of the mentally ill,

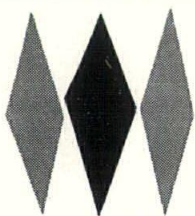
many hours of deliberation have been necessary with the architects.

Since new construction ideas are constantly developing which can be used in the planning of these buildings, many schematic drawings were needed. To coordinate the architectural design with the best function, patient detailed planning has been essential. This the architects and engineers have willingly done.

It has been especially gratifying that all those assigned to work with the Department personnel have taken such a personal interest to assure Ohio the highest possible type of institutions.

Please use whatever method seems appropriate to express to the architects of Ohio the appreciation of the personnel of the Department of Mental Hygiene and Correction for the high caliber of professional interest and help in carrying out this program.

Sincerely,  
**C. Earl Albrecht, M.D.**  
Assistant Director



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### School Boards Convention Set For Columbus

The Ohio State School Boards Association has set its First Annual Convention for November 12-14, 1956 in Columbus at the New Veterans Memorial Building.

Executive Secretary, Lewis Harris, urges all architects to attend. Of especial interest will be a panel dealing with school construction costs.

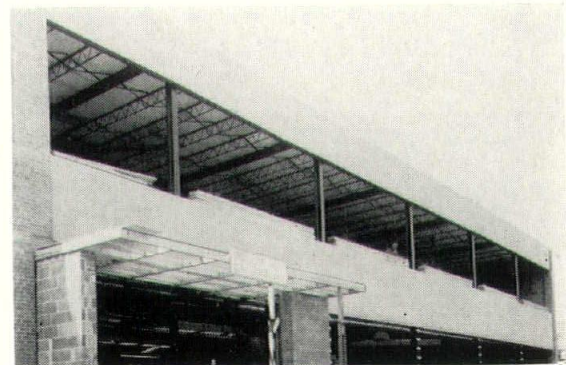
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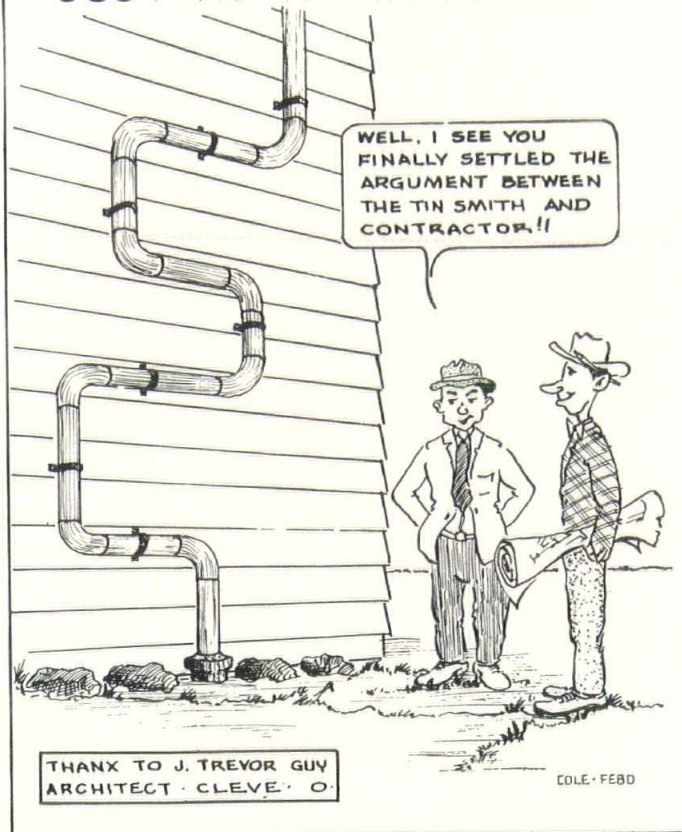
## STRUCTURAL PRECAST CONCRETE CORPORATION



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### JUST AS IT HAPPENED



### A Dollar A Second

Most all of us can think of a humorous experience that we have had or witnessed on the job in about 3 seconds. In a new series *Ohio Architect* will pay you \$3.00 for your description of a humorous incident. Confine these experiences to the building industry.

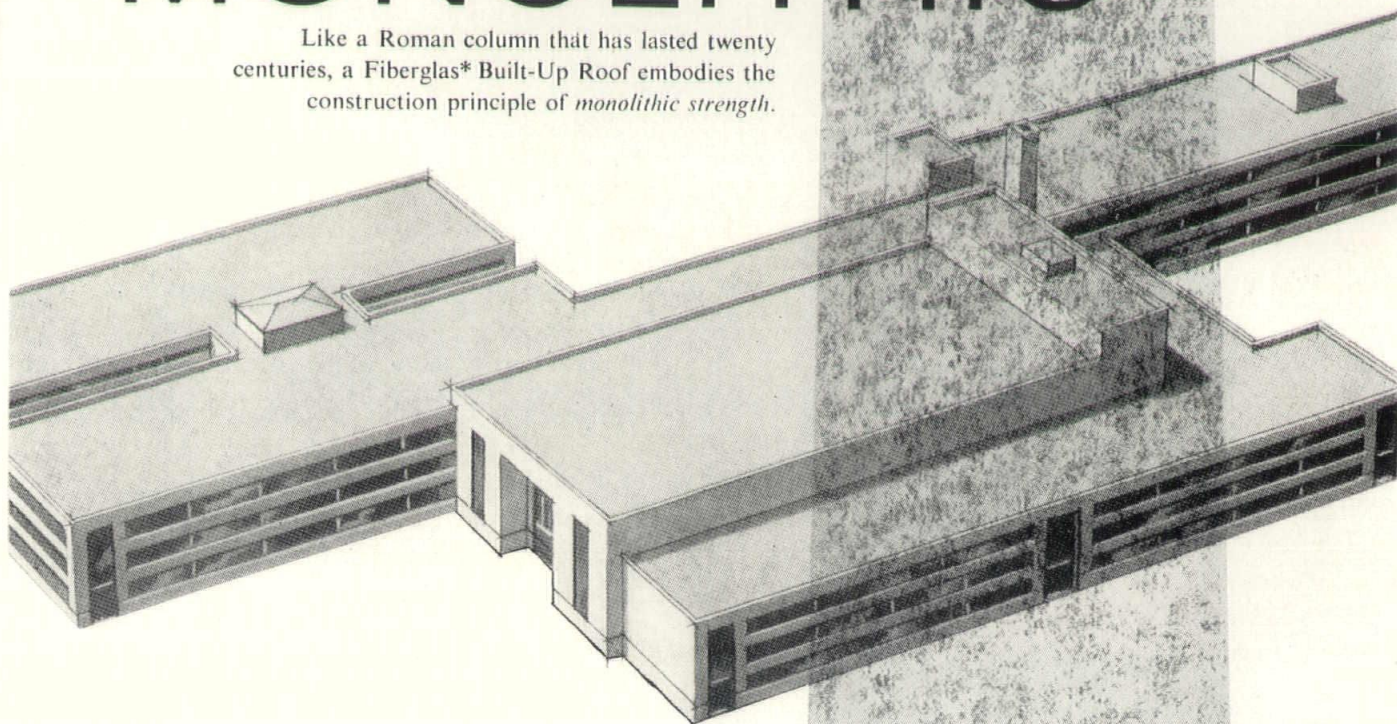
The series of cartoons that will appear in *Ohio Architect* the next few months was conceived and is being executed by two Cleveland men—Ray Febo and Tom Cole. Send your ideas to them at 26400 Parklawn Drive, Cleveland 32, Ohio.

Here's an easy way to earn \$3.00 and at the same time contribute to your own professional magazine.



# MONOLITHIC

Like a Roman column that has lasted twenty centuries, a Fiberglas\* Built-Up Roof embodies the construction principle of *monolithic strength*.



This great new advance in built-up roof construction now promises a virtual end to failures due to faulty bonding of bitumen and felt. Though applied in layers, Fiberglas Built-Up Roofing and bitumen are immediately welded into one continuous monolithic sheath whose inherent solidarity helps prevent buckling, peeling or cracking. The roofing is reinforced by the same ageless glass fibers used in Fiberglas-reinforced fishing rods and boat hulls.

Because Fiberglas Built-Up Roofing is reinforced as a single, monolithic unit, 40% more bitumen can be applied without risk of cracking—giving 40% more weather and water protection! Field-tested and proved in use for 9 years in 6 million square feet of roofing, Fiberglas materials can outlast the bitumen itself! And with Fiberglas Roof Insulation under a Fiberglas Built-Up Roof, you have a quality roof from top to bottom. *It's amazing the difference Fiberglas makes!*

**SEND FOR FREE SPECIFICATION BOOK**—*Reinforced Built-Up Roofs*—containing 32 pages of technical and design data later than current *Sweet's Files*. Address Owens-Corning Fiberglas Corporation, Toledo 1, Ohio.



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## WILLIAMS

### Reversible Window Fixtures

have now been on the market

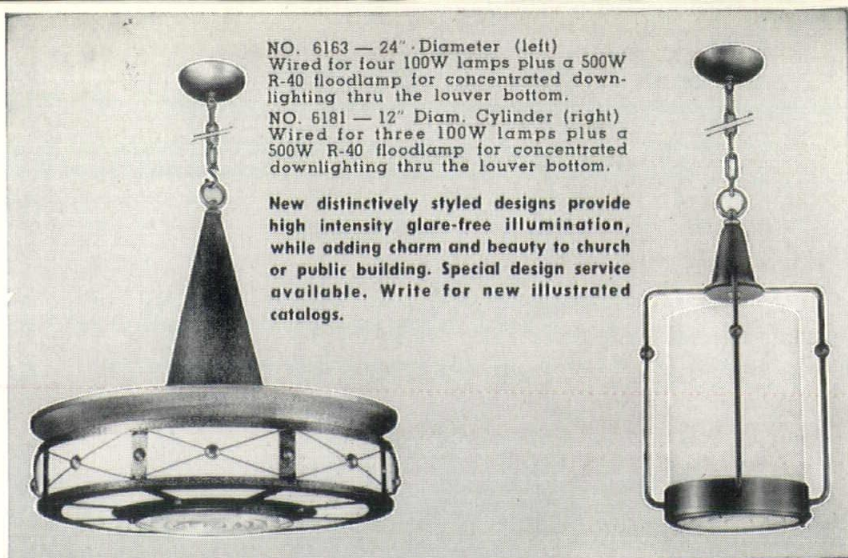
### OVER FIFTY YEARS

All window cleaning done from inside—

SAFELY, ECONOMICALLY and  
CONVENIENTLY

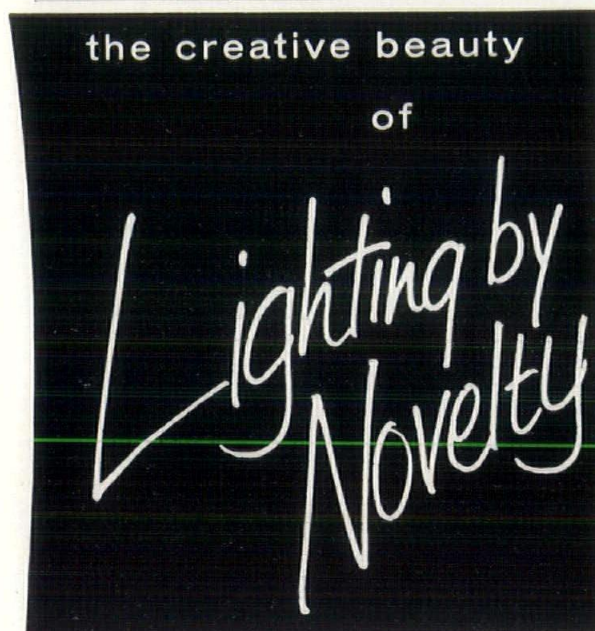
## THE WILLIAMS PIVOT SASH CO.

1827 East 37th St. Cleveland, Ohio



NO. 6163 — 24" Diameter (left)  
Wired for four 100W lamps plus a 500W R-40 floodlamp for concentrated downlighting thru the louver bottom.  
NO. 6181 — 12" Diam. Cylinder (right)  
Wired for three 100W lamps plus a 500W R-40 floodlamp for concentrated downlighting thru the louver bottom.

New distinctively styled designs provide high intensity glare-free illumination, while adding charm and beauty to church or public building. Special design service available. Write for new illustrated catalogs.



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NO. 1833 — Featured in two sizes for 6" and 8" diameter half-cylinders.

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OHIO ARCHITECT



(Continued from Page 7)

Dayton Receiving Hospital and other construction .....	200,000
8. Apple Creek State Hospital (near Wooster)	
Completion of rehabilitation and training unit .....	400,000
9. Longview State Hospital, Cincinnati	
Reception and treatment center .....	840,000
10. Northeast Ohio	
New children's psychiatric hospital ....	1,700,000
11. Rollman Receiving Hospital and State Institute of Psychiatry, Cincinnati	
Receiving and training unit .....	650,000
12. Hawthornden State Hospital (near Cleveland)	
Reception and treatment unit .....	850,000
13. Toledo State Hospital	
Medical and surgical unit .....	750,000
14. Summit County Receiving Hospital	
Additional wing to building .....	440,000
<b>TOTAL</b> .....	<b>\$14,190,000</b>
— — —	
15. Working plans and specifications for projects proposed for 1959 (4.2% of \$15,000,000) .....	\$ 630,000
16. Preliminary plans for projects proposed for 1960 (1.2% of \$15,000,000) .....	180,000
<b>GRAND TOTAL</b> .....	<b>\$15,000,000</b>

# **PROPOSED 1958 BUILDING PROGRAM** **PROJECT** **COST**

## **Division of Correction**

1. Lebanon	
Phase two of new security institution to form second step of Southern Ohio Reformatory .....	\$ 3,200,000

## **Division of Juvenile Research, Classification, and Training**

2. Central Ohio	
Ohio medium security institution for boys, 15 to 18 years of age .....	3,500,000
3. Juvenile Diagnostic Center	
Completion of auxiliary units .....	200,000
<b>Division of Mental Hygiene</b>	
4. Day care school and residential building for the mentally deficient (location undetermined) .....	1,120,000
5. Dayton State Hospital	
a. Medical and surgical unit .....	900,000
b. Psychogeriatric building .....	845,000
6. Columbus State Hospital	
Reception and treatment unit .....	840,000
7. Hawthornden State Hospital (near Cleveland)	
Psychogeriatric building .....	845,000

8. Massillon State Hospital	
Central food preparation and service unit .....	800,000
9. Columbus	
State-wide hospital for mentally ill with tuberculosis (Will release Mt. Vernon State Hospital for mental patients who are not tuberculous) .....	2,600,000
10. Tiffin State Hospital	
Addition to medical and surgical building .....	150,000
<b>TOTAL</b> .....	<b>\$15,000,000</b>

- Rigid
- Long Span
- Permanent



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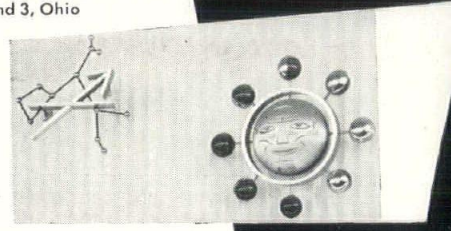
Touch button, lights go on, doors open.





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Decorative metal mural at the  
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Viktor Schreckengost, Designer.  
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Interpreters of designs in fine metal work for  
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## LADIES PLAN SURPRISES FOR ASO CONVENTION



The Steering Committee of the Ladies Program Committee for the ASO Convention is shown at a recent Meeting. Left to right are: Mrs. Nelson E. Thal, Chairman, Mrs. Michael B. O'Shea, Mrs. John N. Richards, Mrs. Timothy Y. Hewlett, Mrs. Carl C. Britsch, and Mrs. Orville Bauer. Mrs. John P. Macelwane is not shown.

The Steering Committee of the Ladies Program Committee for the ASO Convention has been very active in past months planning an intensely interesting and entertaining series of events for ladies attending the Convention in Toledo.

### Advertisers In Ohio Architect

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		Owens-Corning Fiberglas Co. ....	33	Williams Pivot Sash Co. ....	34
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WORLD-WIDE BUILDING SERVICE

## Cut School Costs . . .

### Span 32 feet with Robertson Long Span Q-Deck

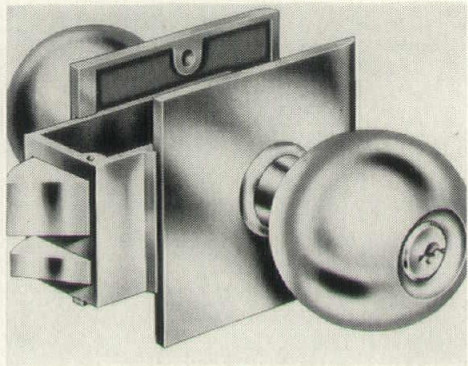
Because of their extra length, Robertson Long Span units permit a reduction in the amount of steel required for the framing of a building, and since no intermediate supporting beams are required, several inches of headroom become available. The fluted underside of Long Span Q-Deck forms an effective acoustical surface — for ordinary requirements, no added sound-deadening treatment is needed. The under surface may be field painted to match any color scheme.



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Cleveland • Columbus • Dayton



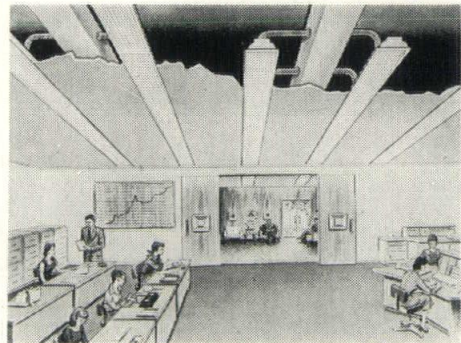
## New Russwin Lock



Russwin "Uniloc" line of locksets with key in knob, equipped with ball bearing, pin tumbler cylinders. The new line embraces all the advantages and features of unit design and construction.

Furnished for either  $1\frac{3}{8}$ " or  $1\frac{3}{4}$ " doors, Uniloc can be master-keyed in sets as desired with other Russwin cylinders. The frame is of one piece extruded brass; the knob is cast brass, bronze or aluminum,  $2\frac{3}{16}$  in diameter, with the escutcheon of cast brass, bronze or aluminum, bronze  $3\frac{1}{8}$ " in diameter. The case of extruded brass is  $1\frac{3}{4}$ " x  $3\frac{1}{4}$ ". Latch bolts are of the pivoted swing type for easy and positive latch action.

### LITERATURE NOW AVAILABLE ON NEW DUAL PURPOSE FIXTURE



The Multi-Vent Trofferlite, the new lighting fixture-air diffuser combination, is being jointly marketed by the Pyle-National Co. and the Benjamin Electric Manufacturing Co.

Because the fixture uses the unique air pressure displacement principle instead of high velocity injection, temperatures are easily balanced, and stay uniform throughout the area.

The Multi-Vent Trofferlite reduces the number of fixtures needed. Where it was necessary to buy troffers and diffusers before, now it is necessary to install only this one unit.

SEPTEMBER, 1956

# Idea for planners



Davidson Facing Panels frame a striking remodeling job, providing an appearance calculated for business!

## (and ideas are easy to work out, with DAVIDSON ARCHITECTURAL PORCELAIN)

Davidson Architectural Porcelain is supplied in exact required panel dimensions, to fit any framing or structural system. Any color or shade may be specified, including

special two-color effects. Choice of gloss or matte surface is offered. Installation... using stainless steel screws and clips... is fast and easy.

Imagination always gets a boost toward reality when Davidson Architectural Porcelain is included in building or remodeling plans. Here, no hint remains that this space was formerly a bank. Davidson Porcelain Panels, applied to simple furring over the original Corinthian pillars, provides a completely modern setting—the neutral gray color used forming a perfect complement for the aluminum framing and redwood accent.



Consult the Davidson Architectural Porcelain distributor in your area, (listed below). He offers skilled engineering and erection service, plus assistance on any application.

## INSULATED STEEL BUILDINGS CO.

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To

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**COLUMBUS**



**SUGARCREEK**

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**UPPER SANDUSKY**

## AUDITORIUM UNIT VENTILATOR

A new 12-page catalog describing the ultra-quiet features of the Herman Nelson AUDIvent is now available to owners, consulting engineers, architects and contractors. The AUDIvent is an auditorium unit ventilator designed for the heating, ventilating and natural cooling of areas such as gymnasiums, cafeterias, auditoriums, libraries, churches and similar large capacity rooms.

Specially engineered for quiet operation, the AUDIvent is designed to provide the same thermal comfort and controlled ventilation in all large areas that Herman Nelson Unit Ventilators provide in classrooms.

AUDIvent units consist of a discharge, fan, heating element, filter and damper section assembled into a compact unit. This unit, with the outdoor air intake, may be installed directly in the space to be served. The smooth, enamel, bonderized finish assures pleasing appearance in those applications where the unit is visible.

*(Continued in next column.)*

*(Continued—)*

Units are available in nine sizes from 1250 to 15,000 CFM in horizontal, upright or inverted positions. The AUDIvent operates on either steam or hot water up to 4572 EDR.

The low outlet velocities of the unit, the sound absorbing installation and precision parts manufacture insure quiet operation so essential to many large area rooms. Models for either high or low static pressure may be specified. The unit is arranged for automatic controls.

Copies of the new bulletin 650-A1 may be obtained by writing Herman Nelson Unit Ventilator Products, American Air Filter Company, Inc., Louisville, Kentucky.

## NEW MANUAL BY JOSAM

The Josam Manufacturing Company of Michigan City, Ind., has just published Manual LV, illustrating its Leveze line of floor and roof drains. Through the use of an adjustable top which can be raised or lowered to provide the proper elevations, these drains solve construction and drainage problems caused by variations in floor and roof levels. The brochure describes a wide range of types for a variety of installation conditions and illustrates the features of the rolled thread adjustable top that provides the adjustability to meet variations in floor levels.

This same adjustable top, rolled thread design of the Josam Leveze floor drain has been incorporated in the Josam roof drains. Designed for flat roof construction, these roof drains raise or lower to meet the required insulation thickness, even after the leader has been installed and the roof has been laid. The body of the drain can be installed in the roof slab or deck to serve as a roof drain during construction. This Leveze feature also permits adjustment to new elevation in cases of change of floor or roof levels even after years of use.

Leveze roof and floor drains are illustrated with complete application, code specifications, and ordering information. Copies are available from Josam District Offices located throughout the country.



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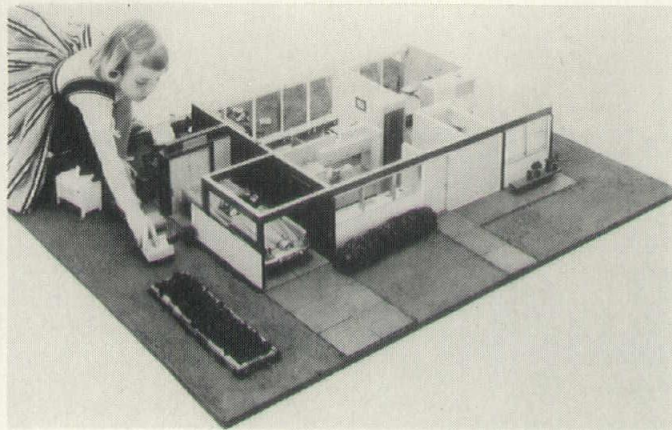
**ARCHITECTS SOCIETY  
OF OHIO**

**23rd Annual Convention**

VISIT US IN BOOTH 41



## "Play" House



Doll's House designed by Robert A. Little & Associates, Cleveland Architects, for "Woman's Day" magazine.

This very small house was designed by Robert A. Little & Associates, Architects, of Cleveland for "Woman's Day" magazine, in whose current issue it appears. The house has two bedrooms, a beamed flat roof and carport and is designed to be built in any part of the country for one hundred dollars.

Reason for the rather low cost of the house can be gleaned from this photo of the house with the roof removed and a young lady toying with furniture. Actual project is a 3' x 4' doll's house designed by Little & Associates to be easily built, storable under a bed, and fun to play with and furnish. Incidentally, it also shows some principles of good contemporary house design, such as privacy toward the street, large glass areas on private rear yard, simple construction pass-thru kitchen, and outdoor living.

## FAMILIAR PATTERN GETS "STOPPER" RESULT



After installation of Davidson Panels

There's a lot to be said for basket-weaving—especially in this striking application of the familiar pattern. The designer's\* accomplishment overcomes the problem of an empty blank wall, providing texture and dimension in a surface that could have been totally uninteresting. \*(A.I.A. Architect, A.O.A. Schmidt, Detroit, Mich.)

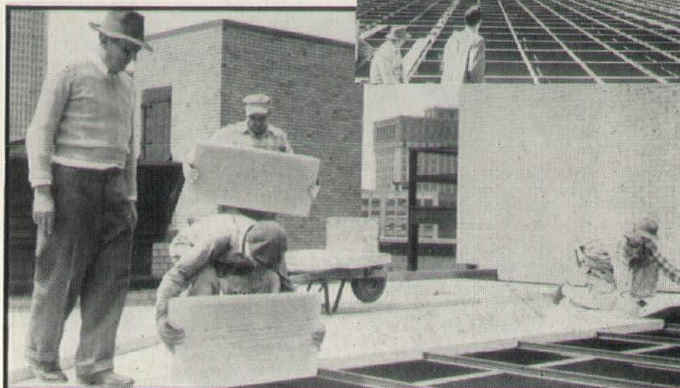
The media used to transform this building from a dull "before" into an exciting "after" were architectural porcelain panels—made by Davidson Enamel Products, Inc., E. Kibby St., Lima, Ohio.

SEPTEMBER, 1956

*A close-up look tells you why*

## More Roof-Deck Benefits Are Made Possible

*with lightweight*  
**ZONATILE®**  
**PRE-CAST**  
**ROOF SLABS**



**Applied Fast! Easily Handled!** Laborer breezes through the job of applying roof to the FISHER SCIENTIFIC COMPANY BUILDING, PITTSBURGH, with lightweight Zonatile slabs.

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ZONATILE slabs go in place easily, quickly—form the ideal roof deck that provides fire-safety, built-in insulation, structural strength. Attractive—underside may be left exposed. Zonatile is reinforced vermiculite concrete, precast to 18" x 36" x 3" dimensions. Handles fast and light in all weather conditions. Easily sawed to special shapes. Ideal base for roofing. For rapid installation at a low cost per square foot, nothing takes the place of fire-safe ZONATILE. Send for free booklet on this cost-cutting, dependable product.



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**MAIL COUPON TODAY**

**free  
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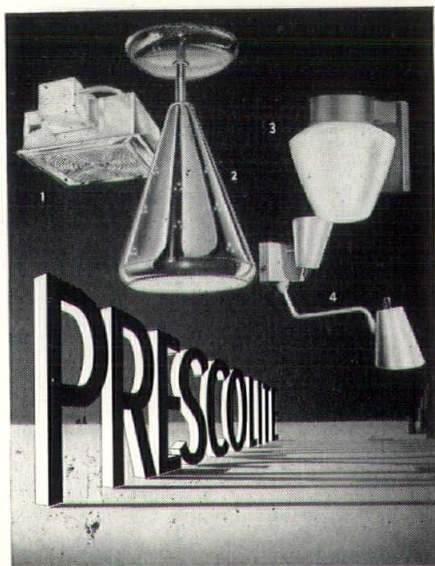
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## WHAT'S NEW IN THE LAW

The following item from the June, 1956, issue of the *American Bar Association Journal* is informative and points to the fact that it is not legally possible to enter upon the practice of law simply by employing a lawyer. It is therefore reasonable to expect the same legal thinking should and no doubt would apply to a similar situation in the practice of architecture.

### Attorneys . . . employment

"The Supreme Court of New Jersey has ruled that an out-of-state law firm cannot employ a New Jersey attorney on a salary to practice in New Jersey in its name.

"The foreign firm, no member of which was admitted in the state, represented a major residential real-estate developer engaged in development in

New Jersey. The firm retained the New Jersey attorney at a weekly salary to operate an office which it established in one of the newly-constructed homes and to supervise title and loan closings. A sign bearing the out-of-state firm's name was placed outside the office.

"The Court agreed with the presentation of an ethics and grievance committee that the New Jersey attorney was guilty of permitting a non-admitted attorney to practice in New Jersey in his name. But, the Court concluded, because the problem was novel and there was no wilful violation, the attorney should not be disciplined 'upon due proof that (he) has disassociated himself from his present arrangement'."

(Matter, Supreme Court of New Jersey, March 26, 1956, per curiam, 121A. 2nd 489.)



# THE J. T. EDWARDS COMPANY

1241 McKinley Avenue

Columbus, Ohio

STRUCTURAL STEEL

MISCELLANEOUS IRON

## New Shower Door



View of Modernfold Door's new Tub-master.

Here's a brand new product that you'll want to investigate—it's a combination sliding-folding tub shower door unlike anything else on the market. It's called "Tub-master," and it's made by the makers of Modernfold

folding doors.

At shower time, this new unit works like conventional doors. But when it's time to bathe the children, clean the tub or take a bath, "Tub-master" doors fold quickly and neatly out of the way to each end of the tub.

When not in use, the doors can be left in their folded position to avoid that small cramped appearance associated with rooms where ordinary tub doors are used—and no light is blocked out when your window is over the tub.

These new doors are completely safe. They're made of high-impact Dy-lene plastic, a new super-plastic that's so rugged it's actually used to make mechanic' tool boxes. It gives when accidentally bumped, will cushion falls . . . won't break, shatter, splinter or chip.

"Tub-master" is available in white or in a variety of lovely decorator colors, and is designed for any standard recessed tub.

## YORK-SHIPLEY

Oil - Gas - Fired

EQUIPMENT FOR INDUSTRY  
STEAM-PAK GENERATORS

- Low and high pressure automatic 15 to 500 h. p., for No. 2, 5, 6 oil, and gas.

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BURNERS

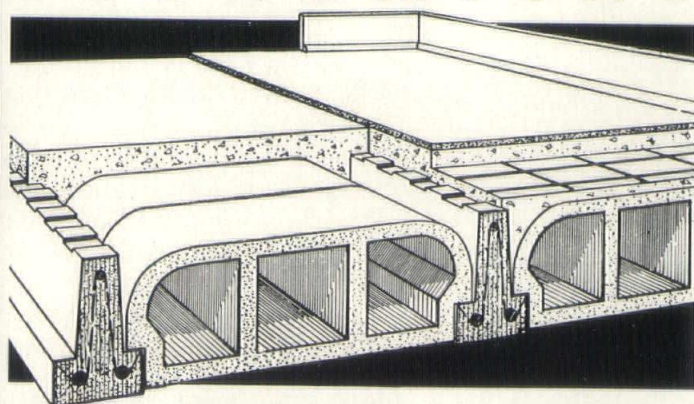
- Direct and belt-drive 45 to 500 boiler h. p., manual to automatic control, for No. 2, 5, 6 oil, and gas.

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DECORATING AND MURALS  
MARBLE AND MOSAICS  
SCULPTURE  
METAL WARE  
CHURCH SEATING

We extend a cordial invitation to  
visit our  
**BOOTH 36**  
at the ASO Convention

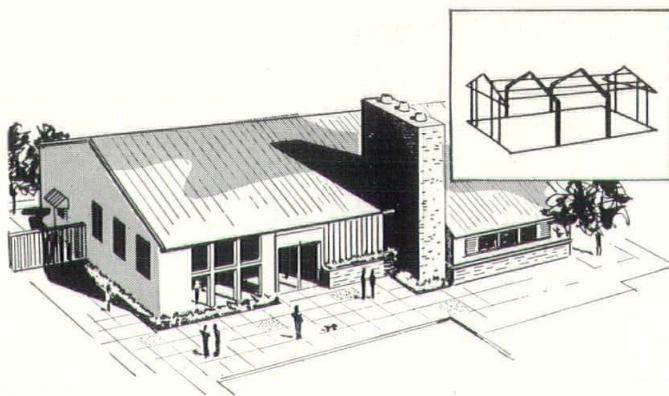
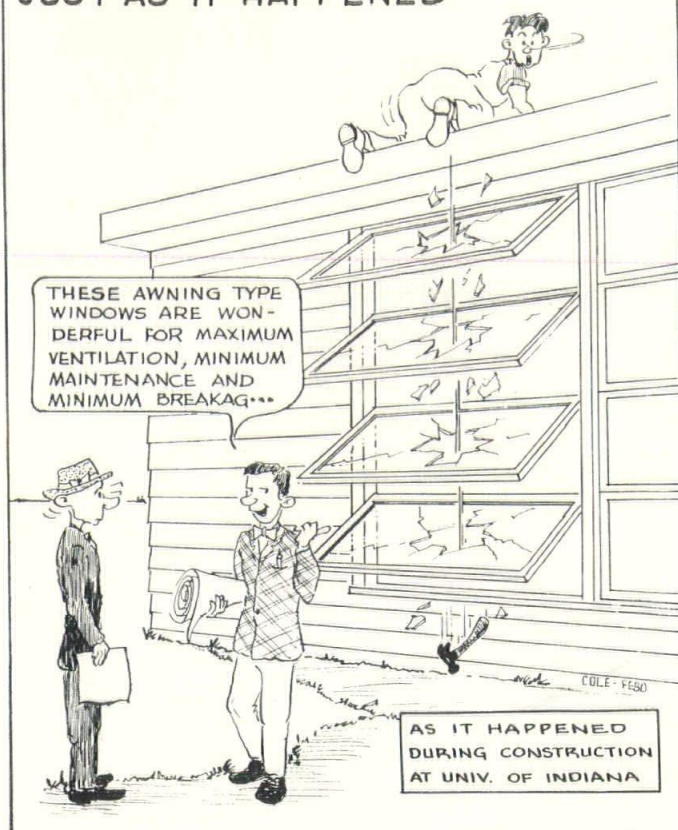
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Cleveland 15, Ohio

## An Armco Steel Building Plus YOU Equals the Store, Office, School, Plant or Warehouse Your Client Wants

Armco provides the basic structure—and you provide the design and treatment that makes it a functional building. How do you and your client benefit? First, the preliminary work is done for you. You save engineering time. Second, you get the convenience and quick availability of a factory-made structure. Third, you gain economy. The skeleton

### JUST AS IT HAPPENED



for your building goes together quickly and easily at the site. STEELOX® Panel construction saves time and money.

But, just as important, you still retain the freedom of design and treatment that is so essential to you and your client. Write us for details about unique Armco Steel Buildings and the STEELOX Panel method of construction.

#### ARMCO DRAINAGE & METAL PRODUCTS, INC.

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# ARMCO STEEL BUILDINGS

