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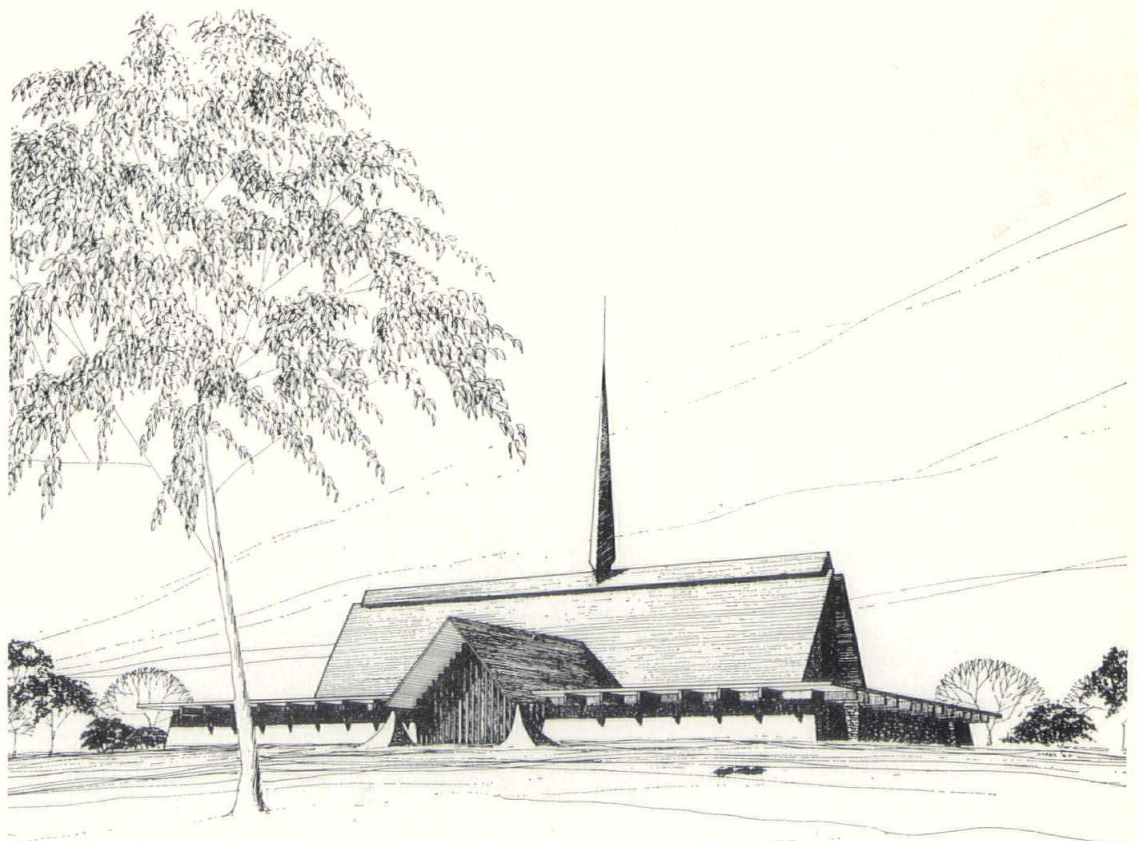
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Lib

# Indiana Architect



SEPT. '63



CHAPEL FOR THE CHILDREN

PAGE 9



a.i.a. file: 4-a

Clip along dotted line



**Curves from straight lines.** The hyperbolic paraboloid shell roof is, in effect, a three-dimensional “sheet” of concrete in which strength and rigidity are accomplished not by increasing the thickness of the sheet, but by curving it in space. Despite its double curvature, this shape can be formed entirely of straight pieces—as can be seen in the side elevation at left.

The concrete roof shown will be the largest single hyperbolic paraboloid of its type in the United States. The building it will cover is being constructed to house the 1,350-seat Edens Theatre in Northbrook, Illinois.

This saddle shell roof will measure 159 ft. between working points at the abutments and 221 ft. from tip to tip. The shell will be only four inches thick.

H/P's, as they are called for short, are exceptionally adaptable to churches, auditoriums and, as shown here, for theatres.

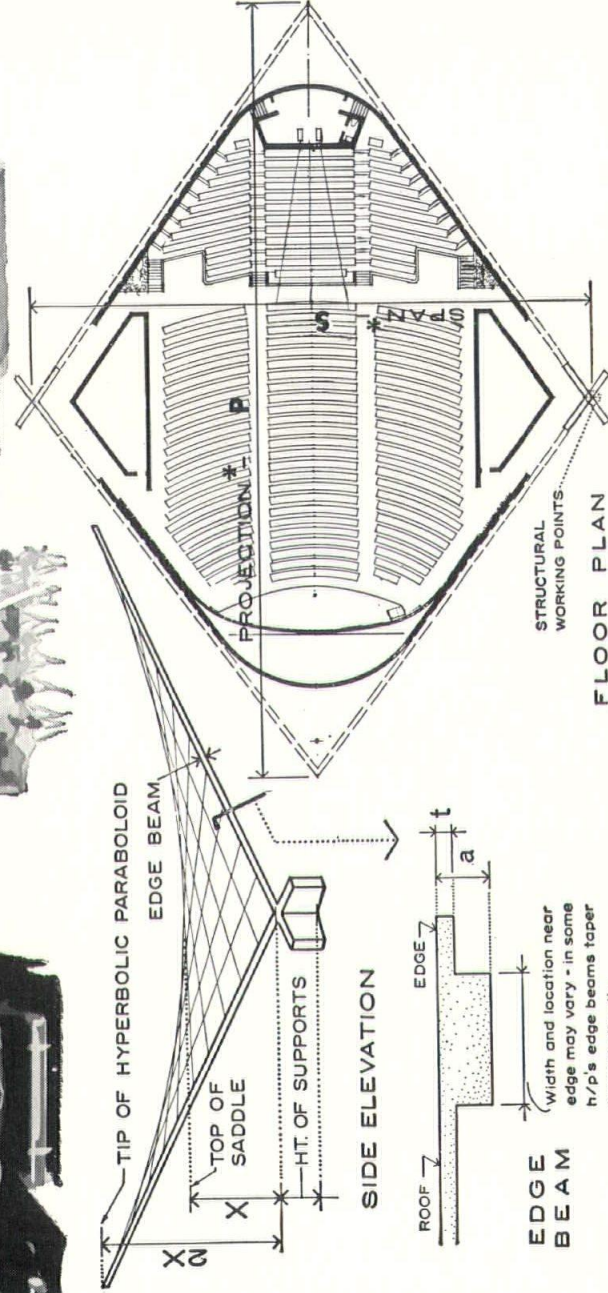
Get complete technical literature on hyperbolic parabolooids. (Free in U.S. and Canada only.) Send a request on your letterhead.

*Architect: Perkins and Will, AIA, Chicago, Illinois*  
*Engineer: The Engineers Collaborative, Chicago*  
*General Contractor: Chell & Anderson, Inc., Chicago*

## HYPERBOLIC PARABOLOID SPAN DATA

| SPAN | PROJECTION<br>min.-max. | X <sup>(1)</sup><br>min.-max. | a <sup>(2)</sup> | t <sup>(3)</sup> | REINFORCING (4) |
|------|-------------------------|-------------------------------|------------------|------------------|-----------------|
| 50'  | 50 — 70'                | 3 — 5'                        | 1'               | 2 3/4"           | 2 — 3 lb.       |
| 60'  | 60 — 85'                | 4 — 6'                        | 1'               | 2 3/4"           | 2 — 3 lb.       |
| 75'  | 75 — 105'               | 6 — 9'                        | 1 1/2'           | 3"               | 3 — 4 lb.       |
| 100' | 100 — 140'              | 9 — 13'                       | 2'               | 3 1/4"           | 3 — 4 lb.       |
| 125' | 125 — 175'              | 13 — 20'                      | 2 1/2'           | 3 1/2"           | 4 — 5 lb.       |
| 150' | 150 — 210'              | 17 — 25'                      | 3'               | 4"               | 5 — 7 lb.       |

(1) figures given are recommended lower limits; maximum feasible limit =  $S/5$ .  
(2) average depth of edge beams. (3) average shell thickness in inches. (4) average reinforcing steel of hyperbolic paraboloids in pounds per square foot of surface.



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# Indiana Architect

Official Journal, Indiana Society of Architects  
and the Northern Indiana Chapter, both  
Chapters of The American Institute of  
Architects

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Mr. Edwin A. Gibson, AIA, Director of the Division of Public Works, Department of Administration of the State of Indiana, has announced that effective November 15th, all architects, engineers, general and sub-contractors performing services or bidding upon construction contracts for the State of Indiana must be pre-qualified by the State. This pre-qualification requirement was established by House Enrolled Act N. 1180, Chapter 24, Acts of the General Assembly of 1963.

The effective date of pre-qualification was established by law as being ninety days after the laws of this year's General Assembly were promulgated.

The pre-qualification requirement will be in effect on all contracts executed by the Division of Public Works. It will not affect contracts executed by state universities and colleges, nor by the Highway Department.

Mr. Gibson also has announced that the pre-qualification program will be under the direction of Mr. Herbert D. Biddle, Department Auditor, who recently joined the Public Works staff. Mr. Biddle is an accountant and formerly City Comptroller of Mishawaka, Indiana.

House Enrolled Act 1180 stipulates that any architect or engineer, contractor or sub-contractor desiring to perform a service or submit a bid on any construction project must be pre-qualified by the State, on forms prescribed, before a contract can be considered, providing that the contract price is in excess of \$10,000.00.

Applications for pre-qualification are now available from the Public Works office, and should be secured without delay as the pre-qualification procedure will require a minimum of thirty days after the forms have been returned to the Division.

## Pre-Qualification Starts Nov. 15th

Firms desiring to receive pre-qualification instructions and appropriate forms are urged to use the coupon below to facilitate handling. Additional information concerning pre-qualification can be secured from the Division of Public Works, from the Indiana Society of Architects, or from any of the construction industry trade association offices.

Public Works Division, Dept. of Administration

510 State Office Bldg., 100 N. Senate Ave.

Indianapolis, Indiana

ATTN.: Mr. Herbert D. Biddle, Department Auditor

Please send \_\_\_\_\_ copies of prequalification instructions and applications for prequalification as \_\_\_\_\_


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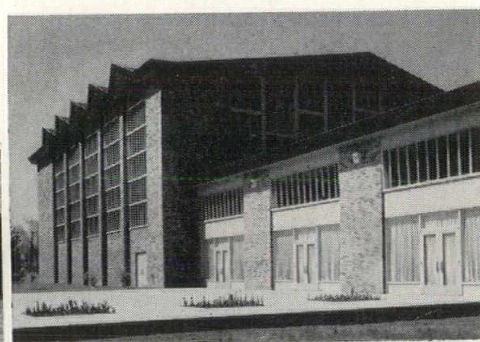
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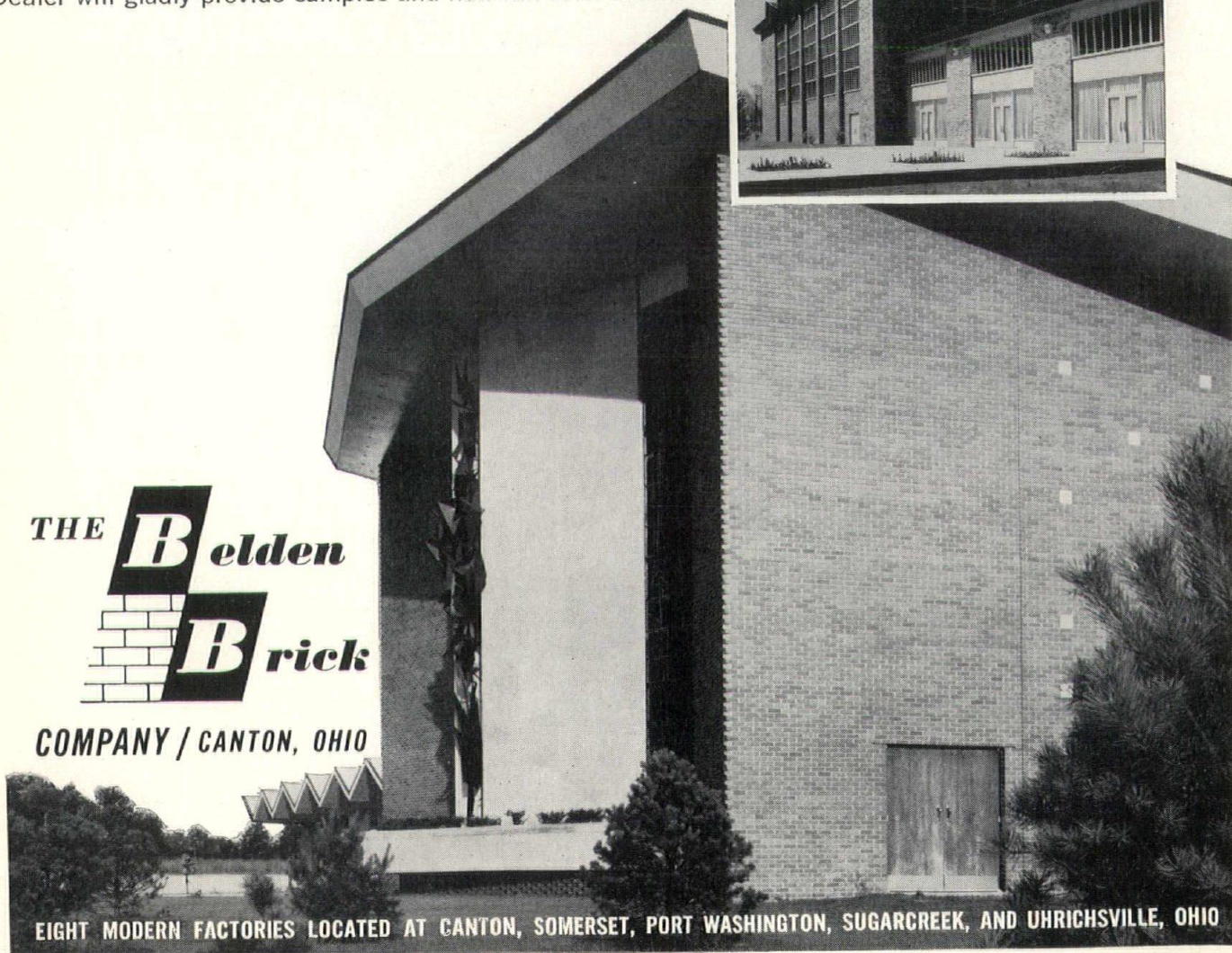
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# Chapel for the Children



Separate facilities for Catholic, Jewish and Protestant worship and religious education are combined in the proposed "Chapel for the Children," a comprehensive religious center for the Muscatatuck State School for the mentally retarded near Butlerville, Indiana.

Plans for the unique center designed by James Associates, Indianapolis architects, recently were approved by the Muscatatuck Church Foundation, according to Carl Burnside, President.

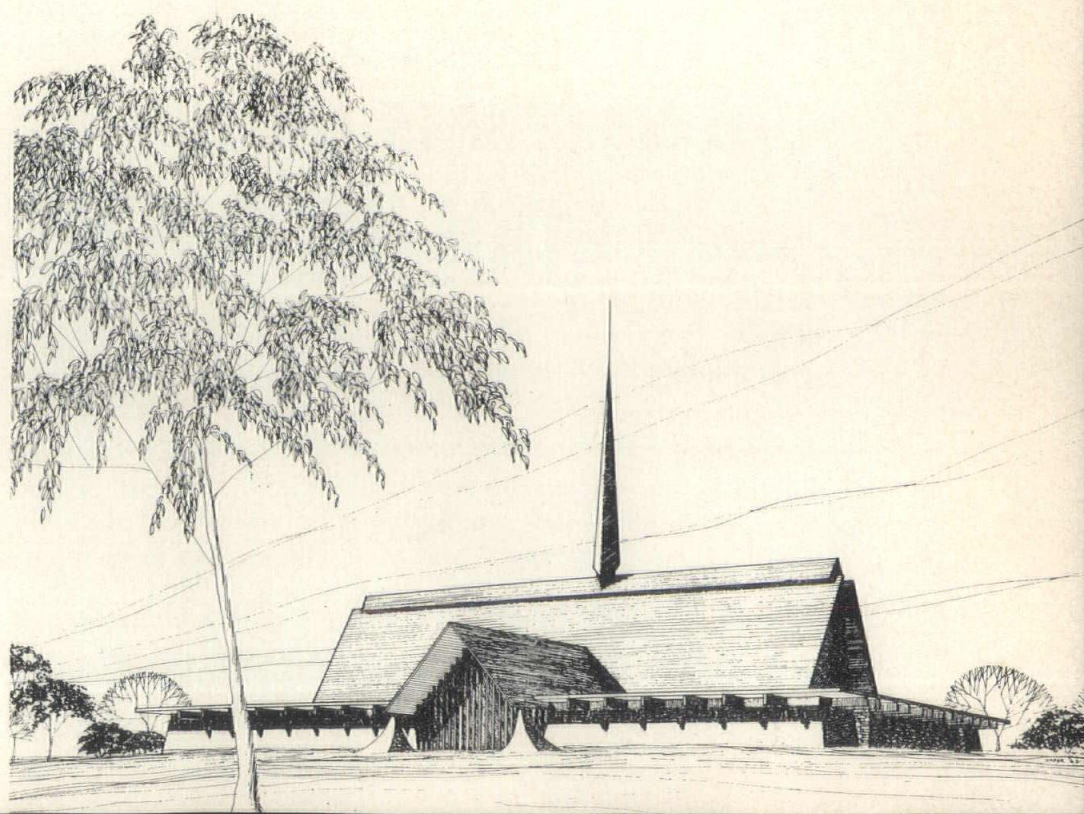
The center will have three separate chapels, each served by a common lobby and narthex. The Protestant and Catholic chapels flank the narthex on the east and west, and the smaller Jewish synagogue is located opposite the entrance.

Grouped around the three chapels are the classrooms, administration areas and service facilities. These low-ceilinged areas form a platform base for the dramatic, soaring roof over the chapels. The entire building has been especially planned to provide easy access for wheelchair patients; auxiliary entrances and bus loading zones are provided for use in inclement weather.

The stone and timber center, with its single tapered spire, will be the first permanent worship center at the State school.

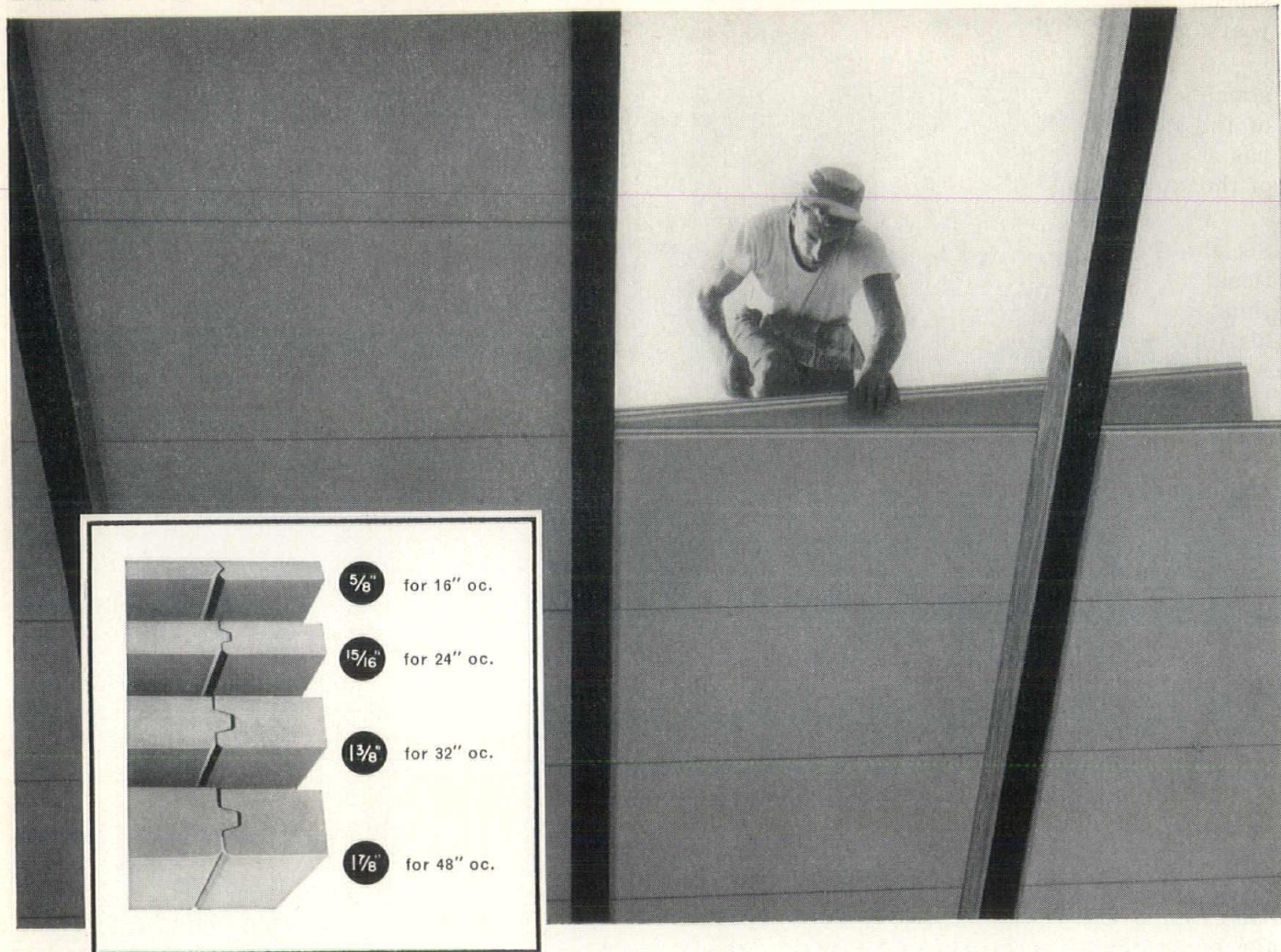
The "Chapel for the Children" is being constructed entirely by voluntary contributions, and has received whole-hearted endorsement by church leaders of all faiths, mental health authorities and governmental officials. Upon completion, the center will be presented as a gift from the Foundation to the State of Indiana.

Contributions can be sent to "Chapel for the Children," Muscatatuck Church Foundation, Inc., Butlerville, Indiana.





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Two more national personalities have accepted invitations to participate in the CONFERENCE ON AESTHETIC RESPONSIBILITY scheduled on Saturday, October 19th, during this year's three-day ISA convention at French Lick.

GEORGE F. PIERCE, JR., FAIA, an outstanding Houston, Texas, architect and a member of the AIA's national Committee on Aesthetics, has accepted an invitation to serve as moderator of the all-day lay seminar.

Mr. Pierce is president-elect of the Texas Society of Architects and has served on five national AIA committees from 1959 to the present time. He has won five First Honor Awards from his Chapter for buildings designed by him, nine Awards of Merit, and two Medals of Honor, and five of his projects were chosen in a collection of ten years of outstanding Houston architecture. Other design honors include a Special Citation from the American Association of School Administrators, a National First Award and a National Award of Merit from INSTITUTIONS MAGAZINE, a Design Award Citation from PROGRESSIVE ARCHITECTURE, two awards from the Contemporary Arts Museum of Houston, and has exhibited in state, national and international exhibitions on architecture.

He has authored or co-authored some twenty-two articles, including articles in LIFE magazine, ARCHITECTURAL FORUM, ARCHITECTURAL RECORD, PROGRESSIVE ARCHITECTURE, AIA JOURNAL, and TEXAS ARCHITECT.

Mr. Pierce was elevated to Fellow of The American Institute of Architects in 1961 at the age of 42. He is a graduate of Rice University and the Ecole Des Beaux Arts, Fountainebleau, France.

The second national personality accepting an invitation to participate in the Seminar is famed New York sculptor THEODORE J. ROSZAK, who recently was appointed to the national Fine Arts Council by President Kennedy.

Mr. Roszak was born in Poland in 1907 and received his formal art training at Columbia University. His sculpture has received innumerable awards and has been exhibited literally around the world.

He served as the U.S. delegate to the International Architectural Sculpture Commission, is a member of the National Council on Arts and Government, a member of the faculty at Sarah Lawrence College in New York, and a trustee of the Tiffany Fund. In 1960, Mr. Roszak served as the U.S. delegate to the Congress of Arts in Vienna.

The addition of these two panelists brings to six the number of panelists already selected. Announced earlier were the selection of Mr. Grady Glay, Honorary AIA, Louisville, Ky., the

## Conference on Aesthetic Responsibility Readied For ISA Convention

editor of LANDSCAPE ARCHITECTURE; Mr. William G. Greif of Evansville, Indiana, the Executive Director of Evansville Future, Inc.; Mr. Joseph C. Graves, Jr., of Lexington, Kentucky, president of Graves-Cox Company; and Raymond E. Daly of Gary, president of the Bank of Indiana. One more national panelist remains to be selected.

The three-day convention, without doubt, should be the finest convention ever staged by the architectural profession in Indiana. Convened at the French Lick Sheraton Hotel during southern Indiana's most glorious season, the program is loaded with an outstanding seminar, entertainment and fun. Outstanding guests will include Mr. J. Roy Carroll, Jr., FAIA, the president of The American Institute of Architects, and Mr. James A. Clark, AIA, director of the East Central Region of the AIA. The Friday evening speaker will be Mr. Jim Lucas, publicity director of Herman Miller, Inc.

Dancing, horseback riding, skeet shooting, mineral baths, golf (on either one of two magnificent courses), hiking — anything you want is provided, along with a scenic bus trip through colorful Brown County at the height of the Fall festival.

Two different program schedules have been arranged so that the maximum number of members could attend, and program announcement and reservations cards will be mailed within the week.

Don't miss this outstanding (and entertaining) professional event.



# ISA-KSA-EAST CENTRAL REGIONAL CON

Friday, October 18th

Saturday,

9:30 A.M. Buses leave I.S.A. headquarters for French Lick. \$6.00 per person, round trip (includes box lunch served en route)

12:30 P.M. Registration, French Lick-Sheraton Lobby. \$5.00 per person (includes cocktail parties, corsages, and resume of seminar program)

12:30 P.M. Product Exhibit Opens, Mezzanine

1:00 P.M. East Central Regional Council Meeting, Roost (on Mezzanine)

2:30 P.M. Indiana Society of Architects' Annual Business Meeting, Roost (West Room)

2:30 P.M. Kentucky Society of Architects' Annual Business Meeting, Roost (East Room)

6:30 P.M. Reception and Cocktails, Mezzanine

8:00 P.M. Dinner, Roost (informal)  
James A. Clark, AIA, East Central Regional Directors, presiding

Speaker: Jim Lucas, director of public relations, Herman Miller, Inc. "A Commentary on Environment"

10:00 P.M. Informal Get-together, Mezzanine

7:00 - 8:30 A.M. Informal Breakfast, Main Dining Room

8:30 A.M. Registration, Lobby

8:30 A.M. Product Exhibit Opens. Coffee & Rolls, Mezzanine

9:15 A.M. East Central Regional Membership Meeting, Roost

9:30 A.M. Conference on Aesthetic Responsibility, Convention Hall

Panel Moderator: George F. Pierce, Jr., F.A.I.A., Houston, Texas

Panelists: Theodore J. Roszak, Sculptor, New York City

Grady Clay, Editor, LANDSCAPE ARCHITECTURE, Louisville, Kentucky

Raymond E. Daly, President, Bank of Indiana, Gary, Indiana

William G. Greif, Executive Director, Evansville Future, Inc., Evansville, Indiana

Joseph C. Graves, Jr., President, Graves-Cox Co., Lexington, Kentucky

(Remaining panelist still to be selected)

10:30 A.M. Women's Architectural League Meeting, Roost



# CONVENTION, FRENCH LICK, OCTOBER 18-19-20

October 19th

- 12:30 P.M. Awards Luncheon, East Dining Room  
Walter Scholer, Jr., A.I.A.,  
President, I.S.A., presiding
- Awards Presentations: J. Roy Carroll, F.A.I.A., President, The American Institute of Architects
- Introduction of Scholarship Winners: Alfred J. Porteous, A.I.A., Vice-President, I.S.A.
- Registration Certificate Presentations: Indiana State Board of Registration for Architects
- 2:30 P.M. Conference on Aesthetic Responsibility, II, Convention Hall  
Group Discussions and Questions & Answers
- 2:30 P.M. Ladies' Bridge, Roost
- 6:30 P.M. Reception and Cocktails, Mezzanine
- 8:00 P.M. Annual Banquet, East Dining Room (informal)  
Walter Scholer, Jr., A.I.A.,  
presiding
- Honoring of Region's Fellows and their wives: Wayne M. Weber, A.I.A., Immediate Past President, I.S.A.
- Introduction of Speaker: James A. Clark, A.I.A.
- Speaker: J. Roy Carroll, Jr., F.A.I.A., President, The American Institute of Architects. "The AIA Today"
- 10:00 P.M. Informal Get-together, Mezzanine

Sunday, October 20th

- 7:30 A.M. - 9:00 A.M. Informal Breakfast, Main Dining Room
- 9:00 A.M. - 2:00 P.M. Open for church, golf, hiking, mineral baths, horseback riding, skeet shooting, conversation, etc.
- 2:00 P.M. Buses leave French Lick for Indianapolis, via scenic tour of Brown County

## Alternate Friday Schedule

- 5:00 P.M. Buses leave I.S.A. headquarters for French Lick. \$6.00 per person, round trip (includes cocktails served en route)
- 8:00 P.M. Registration, French Lick-Sheraton Lobby
- 9:00 P.M. Informal Dinner, Hoosier Room
- 10:00 P.M. Informal Get-together, Mezzanine

## Miscellaneous

All buses will leave Indianapolis from the ISA Headquarters in the Wabash Fire & Casualty Insurance Company building, 3637 N. Meridian St., promptly as scheduled, and will return to that location. Facilities for parking (free) are available there.

Buses will leave the French Lick Sheraton from the front entrance.

Bus reservations must be made one week in advance.

The convention is open to all interested parties, in both Indiana and Kentucky. The \$5.00 registration fee applies to all persons, including wives.

Meal tickets for persons not staying at the French Lick Sheraton will be available at the registration desk; lunch, \$3.00; dinner, \$5.00. For hotel guests, meal charges are included in the room charge.



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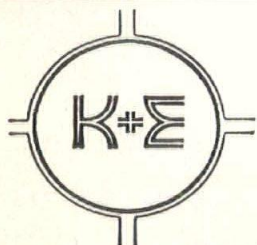
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# The Telemated Classroom

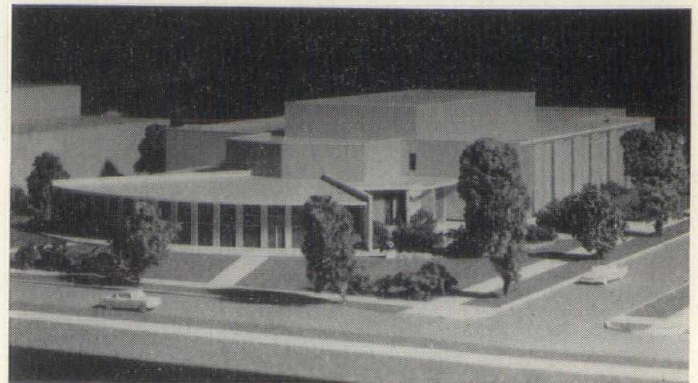
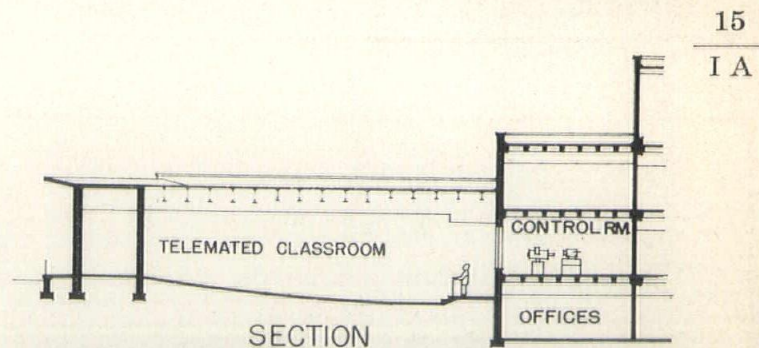
The telemated or electronic classroom is new to the colleges of Indiana and relatively new throughout the country, as only a few have been specifically designed and built for this purpose. The most successful in the opinion of this Architect is at the University of Miami, Coral Gables, Florida. This building of octagonal shape has eight such rooms with one control room in the center of the building, making it possible for eight different programs to be projected simultaneously.

Colleges today are faced with a great influx of students and a shortage of classrooms and funds for additional professors. One answer to this dilemma is large group instruction for many subjects. This large group instruction can be done with the telemated classroom using rear screen projection. Very special planning is necessary for this type of instruction and use is made of open and closed circuit television, movie projectors, slide projectors, and tape recorders. Sound motion pictures are first projected onto a mirror and then onto the screen. Projection of film strips or slides requires reversal of the film strip or slide in the projector. Television projectors may be reversed electronically so that the reversed picture on the back of the screen will appear right side from the front of the screen.

The equipment used may be controlled by technicians in the control room who operate on cues from the speaker with a buzzer or light system from the podium or by signals on a tape recorder. Random access slide projectors are also available, permitting the selection of any slide in the tray at any time in the lecture.

A teleprompter system which automates the equipment also may be used, the speech so arranged that certain slides appear at certain points in the speech, a motion picture might start to run at another point in the speech, and a tape recorder might start to run at another point in the

by **WAYNE M. WEBER, AIA,**  
*Weber & Curry, Architects*  
and **RUSSELL McDOUGAL**  
*Director, Audio-Visual Center,*  
*Indiana State College*





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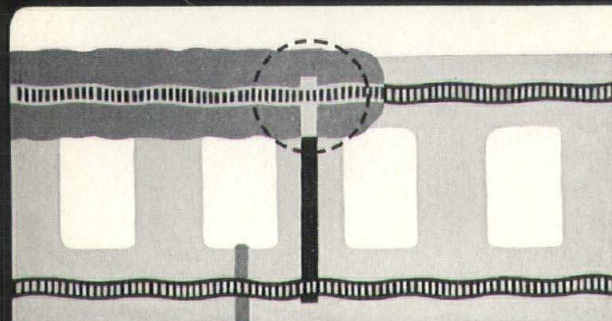
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speech, and give the audience a discussion at still another point in the speech.

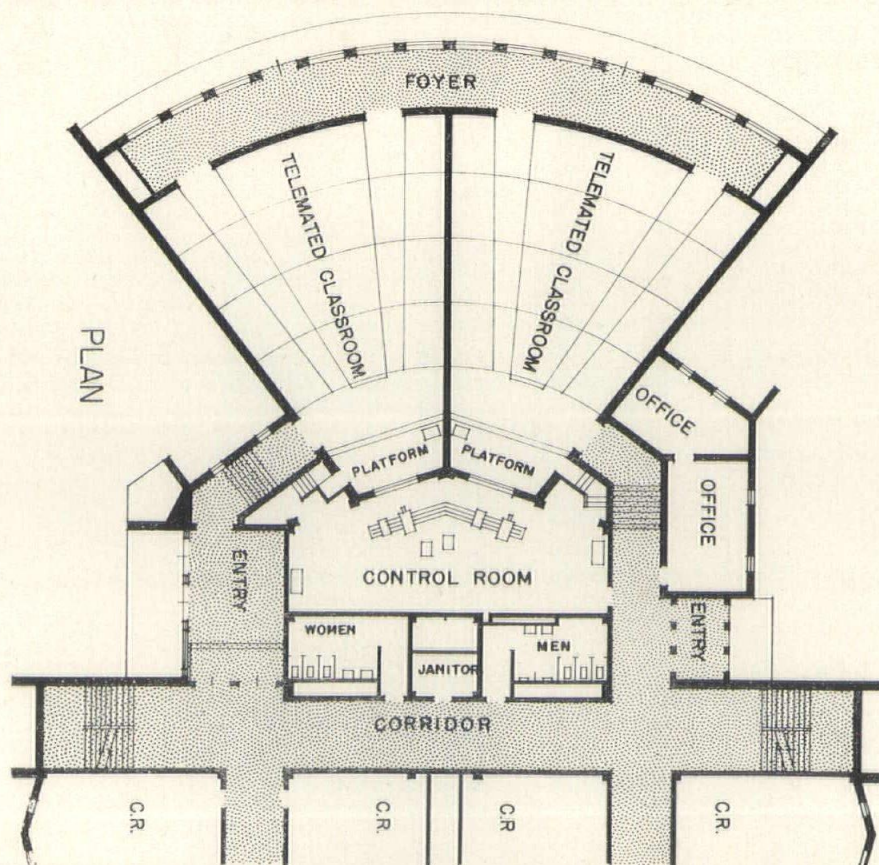
With this type of equipment it is possible to project different programs in each lecture room at the same time. It is possible also to show two or more slides on the screen at the same time for comparison purposes. As an example, one university teaching Russian history shows pictures of Russia of 1812 on one-half of the screen while Tchaikovsky's Overture of 1812 is played through the loud speaker system to help establish a time reference and pictures of various Russian musical instruments are shown on the other half of the screen.

In designing the new classroom building for Indiana State College, Terre Haute, Indiana, it was decided to include one telemated classroom with three hundred seating capacity. As the program and preliminary drawings developed the decision was made to build two rooms of three hundred seating capacity each, providing instruction for six hundred students at one time, thus doubling the number of students with a minimum increase in technical personnel in the control room.

The design of the two telemated classrooms required considerable research to determine the type of programs, equipment, shape of room, control room equipment, etc. Visits to telemated classrooms at Chicago Teachers College North and at the University of Miami were made by the Architect to study the physical aspects of this

type of room, equipment used, and to see actual programs in operation.

Pie shaped rooms seating approximately 300 students each appeared to offer the best solution for viewing. The rooms are fifteen feet wide at the screen end with a twelve inch high platform for the podium. The distance from the screen to the rear seats is sixty feet which is satisfactory for the size screen being used. The size and shape of the rooms permit an undistorted view of a picture from any point in the room. The screens are eight feet square with a double ground plate glass separating the classrooms and the control room. The projection screens themselves are of a plastic material mounted a few inches from the face of the plate glass. Direct access has been provided from the buildings on the campus to these classrooms and also direct access is provided from the new building to these classrooms. Some office space has been provided on the first floor of the building and work rooms, programming rooms, offices, storage, etc., are provided on a lower level under the control room area. The lighting system in the classrooms provides for full illumination and dimming to any degree so that pictures may be projected and notes taken by the students. All equipment for the classrooms will be mounted in the control room. Equipment can be dual so the same program can be projected simultaneously in each classroom.





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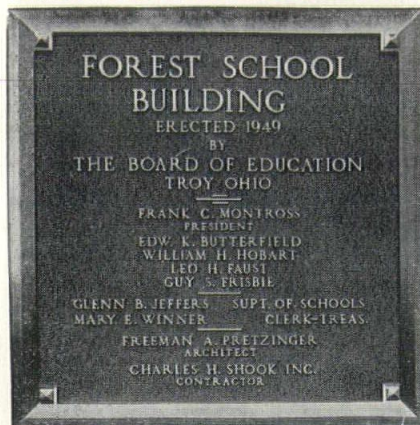
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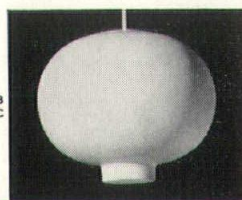
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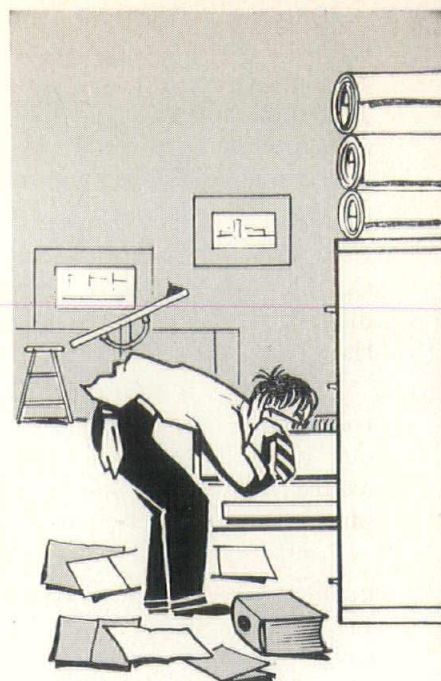
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A major forum to discuss the forces that contribute to the character and development of American communities will be conducted by The American Institute of Architects in conjunction with its 1964 convention June 14-18 in St. Louis.

J. Roy Carroll, Jr., FAIA, of Philadelphia, president of the national professional organization, said the theme of the program will be "The City — Visible and Invisible." It will be the first major gathering to be held in St. Louis during that city's 1964 Bi-Centennial year.

"Within the framework of this theme," Carroll said, "we will explore the forces at work in our communities which the architect must be aware of and respond to in developing man's physical environment."

The first session of the professional program, scheduled for Wednesday morning, June 17, will be concerned with "The Invisible City" covering the psychological, sociological, legal, historical, cultural, family and spiritual elements of an urban civilization.

The second session, Wednesday afternoon, will take up "The City and the Body Politic." A panel of speakers will attempt to define the relationship of government to the problems of communities — at federal, state and local levels. To be discussed are the effects of government on such problems as air and water pollution, open space, local and regional planning, zoning, land use patterns, urban renewal, mass transportation, taxation and economics.

Following the first two sessions, during which prominent speakers will have defined the "invisible" forces that make up the community, the third and last session, scheduled for Thursday morning, will be concerned with "The Visible City" — the visual fulfillment of the physical and natural assets of the community; the architect's realm.

"In the course of the professional program," Carroll said, "we will attempt to present a broad view of the community. Rather than limit our discussions to the architect's role in the development of communities, we will concern ourselves with

## '64 AIA Convention Announced

the major forces at work in our communities and the influences that shape them. In short, we will discuss the 'atmosphere' within which the architect performs his role."

The roster of speakers for the professional program will include prominent figures in government, law, medicine, religion and education, as well as outstanding architects. Announcement of the speakers is expected to be made in about a month.

"The professional program, with its emphasis on the American community, is part of The American Institute of Architects' long-standing program for improving our urban environment," Carroll said. "The Institute has long recognized that our communities must provide an amenable and stimulating environment if they are to continue to serve their citizens, and we are conducting extensive activities in this field."

Currently being published in the *AIA Journal* is the fifth in a series of 12 articles entitled "Urban Design: The Architecture of Towns and Cities," prepared under the direction of the AIA Committee on Urban Design to stimulate and inform the architectural profession towards greater effectiveness in this field.

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# Architecture

## In the News

Indianapolis Architect Fran E. Schroeder, AIA, has been reelected President of the Indianapolis Chapter of the Construction Specification Institute. The C.S.I. is a guiding force in the construction industry and is directly concerned with construction specification standards.

Other officers are Walter Scholer, Jr., AIA, Lafayette, reelected 1st Vice President; John B. Price, 2nd Vice President; Donald W. Rustad, Secretary; William J. Hanley, Treasurer; Joseph J. McGuire and John C. Fleck, AIA, Directors, all from Indianapolis.

\* \* \*

"Frank Lloyd Wright," a biography of the architect by Dr. Grant C. Manson, associate dean for fine arts at the University of Southern California, has been selected for the White House library, according to word received from Washington, D.C.

This is Dr. Manson's first volume on Wright, covering the architect's period until 1910, and was published by Reinhold in 1958. The USC professor of fine arts and architecture, who worked 20 years on the Wright biography, also has two more volumes planned about the famous architect.

\* \* \*

W. L. Johns, Indianapolis representative of the Armstrong Cork Company, has been elected president of the Indianapolis Home Show for 1964. He succeeds former president and new treasurer Donald E. Clark, AIA, of McGuire & Shook, Compton, Richey and Associates, Indianapolis.

Other officers elected at the Show's annual Board of Directors' meeting were Robert L. Dawson, Dawson Construction Company, first vice-president; Thomas B. Laycock, A. H. M. Graves Co., second vice-president; and Charles E. Edmonds, McGuire & Shook, Compton, Richey and Associates, secretary.

\* \* \*

Tom Carlino, of Hugh J. Baker & Company, has been elected the 1963-64 president of the In-

dianapolis Chapter of Producers' Council, succeeding Portland Cement Association engineer Keith L. Guthrie.

Other officers elected for the new year are Byron Jaqua, of Scott-Jaqua Company, vice-president; Eric Moore of Pittsburgh Plate Glass Company, secretary; and Keith Walker, Johns Mansville representative, treasurer.

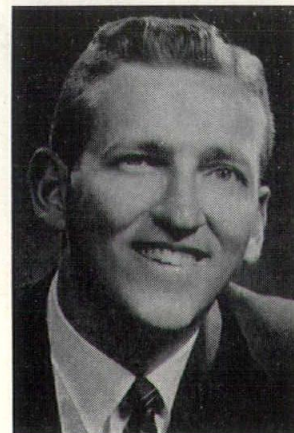
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There's still time to make reservations for the October 5th (Saturday) Lake Michigan Cruise sponsored by the Northern Indiana Chapter, AIA. The all-day boat survey of the southern shores of Lake Michigan will leave the Michigan City harbor at 8:30 A.M., CDT, and return to Michigan City at 7:00 P.M., that evening.

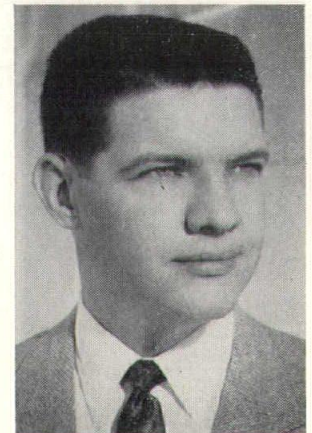
Wives and guests are welcomed, and the charge is \$10.00 per person. Reservations should be made to Forrest R. West, AIA, N.I.C. treasurer, 629 Colfax Avenue, South Bend.

\* \* \*

A new company has been recently formed by Stewart D. Tompkins and Richard D. Light, both of Indianapolis. The name of the company which will sell face brick and structural glazed tile to architects, contractors and builders, is Light & Tompkins Brick and Tile, Inc. Offices and display room will be located at New Road 37 and Hague Road. Tompkins and Light have a combined total of 29 years' experience in the building material field.



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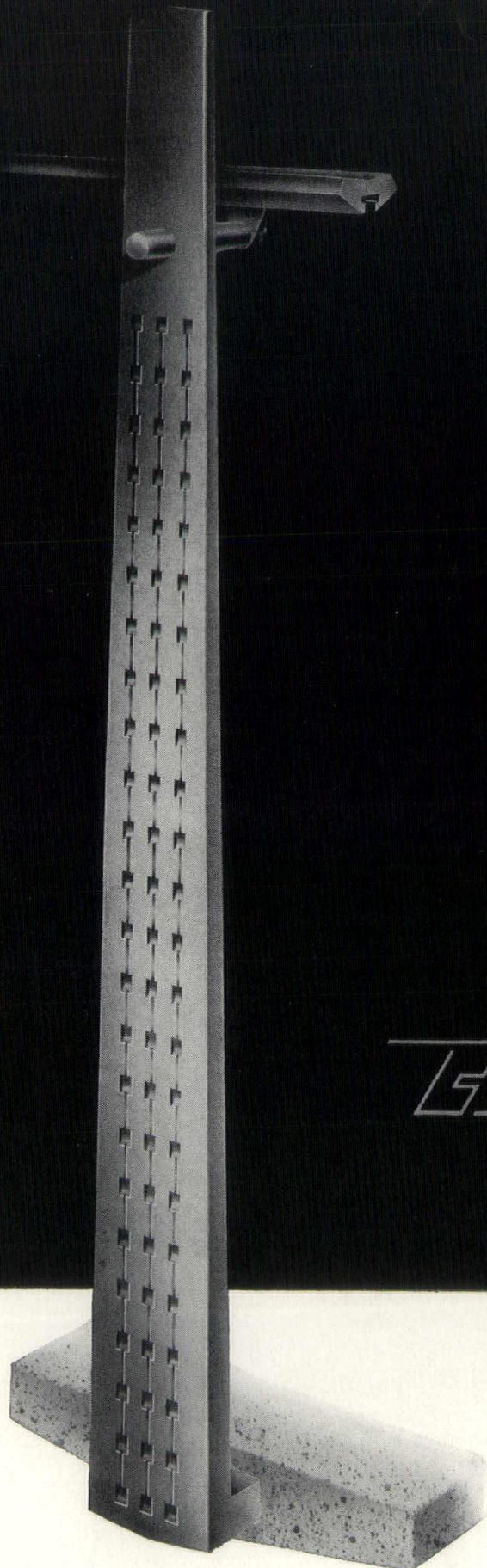
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\* \* \*

The Housing and Home Finance Agency last month approved a grant of \$182,512 to Housing Research, Inc., of Michigan City, Indiana, for the design and demonstration of the "stacking" of factory-built dwellings to achieve low-density multi-level housing for occupancy by low-income families.

The principal consultant for Housing Research, Inc., will be the office of Ken Fryar Associates, Architects, of Michigan City. Mr. Ronald Goodfellow, architect, will be the project director.





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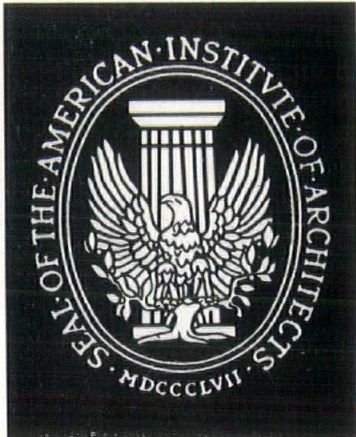


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