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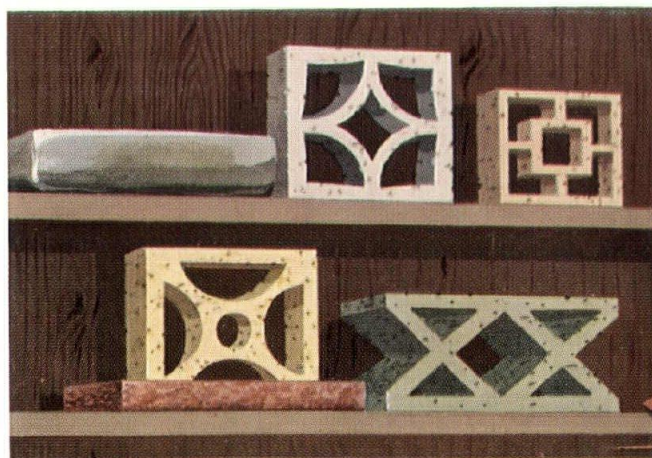
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JANUARY / 1967

VOLUME X / NUMBER 7

A Special Issue on Concrete Masonry

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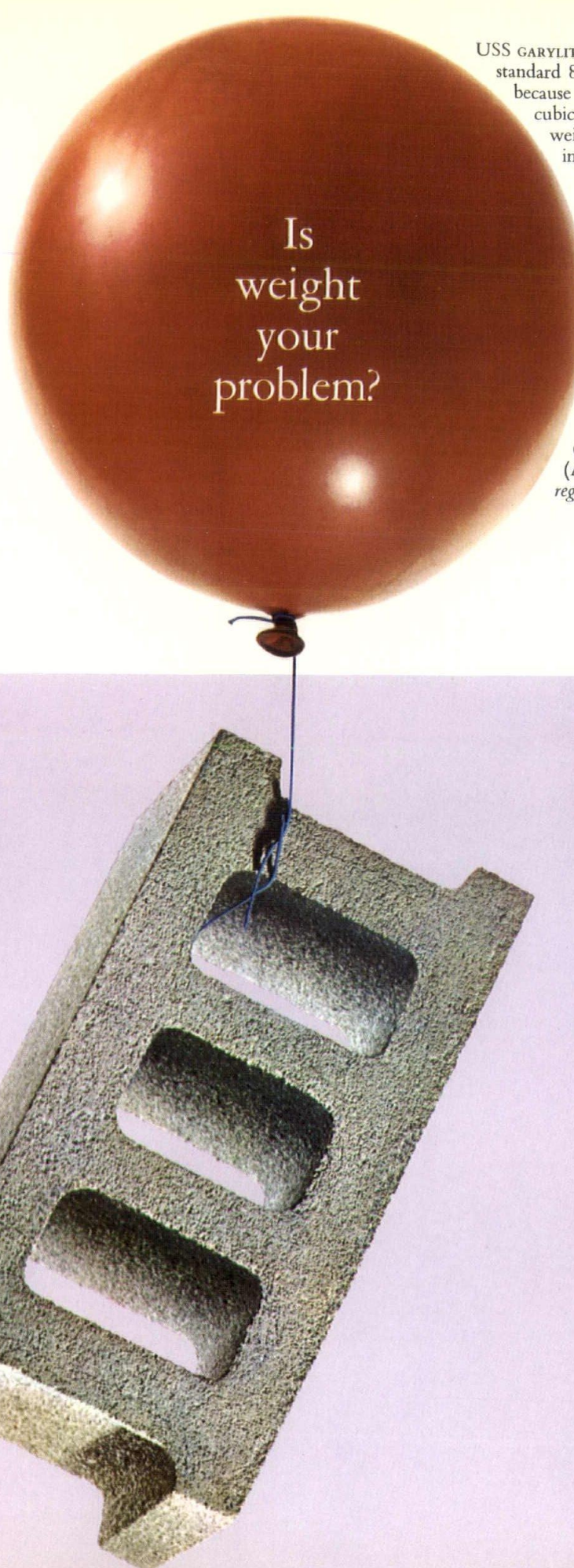
DON E. GIBSON, Hon. ISA

Art Director

LARRY ROESLER

The INDIANA ARCHITECT is the sole property of the Indiana Society of Architects, a state association of The American Institute of Architects, and is edited and published every other month in Indianapolis, Indiana (editorial-advertising office address 300 East Fall Creek Parkway, N. Drive, Indianapolis, Indiana 46205; phone 925-4484). Current average circulation per issue, 3,200, including all resident registered Indiana architects, school officials, churches and hospitals, libraries, public officials, and members of the construction industry. Detailed information available on request.

Cover Design by Larry Roesler salutes both the happy new year and the special masonry issue.



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Changing of the Guard: 1967

WITH THE BEGINNING of each new year, the officers and directors of each of the three AIA Chapters in Indiana and the Indiana Society of Architects officially accept the obligations of their offices. All officers in all organizations are elected for one year terms, all ISA directors are elected for two year terms, and all Chapter directors are elected for three year terms.

The following listings by organizations are as accurate as can be determined from the records of each organization.

INDIANA SOCIETY OF ARCHITECTS

CARL L. BRADLEY AIA, Fort Wayne (C-SIC)
President

ROBERT J. SCHULTZ AIA, South Bend (NIC)
Vice-President

HENRY G. MEIER AIA, Indianapolis (IC)
Secretary

JOHN C. FLECK AIA, Indianapolis (IC)
Treasurer

G. A. HUBER AIA, Evansville (C-SIC)
Director, 1967-68

DAVE NICE AIA, Indianapolis (IC)
Director, 1966-67

RICHARD K. LENNOX AIA, Indianapolis (IC)
Director, 1967-68

DAVID MEEKER AIA, Indianapolis (IC)
Director, 1967-68

GEORGE N. HALL AIA, Gary (NIC)
Director, 1966-67

COURTNEY E. ROBINSON AIA, Indianapolis (NIC) Director, 1967-68

(NOTE: One vacancy for Director from the Central Southern Indiana Chapter, 1966-67, exists due to the death of Father Barnabas Harrington OSB AIA)

NORTHERN INDIANA CHAPTER

THOMAS R. KEENE AIA, Elkhart
President*

RICHARD BARTON AIA, Fort Wayne
Vice-President*

*All Chapter Presidents and Vice-Presidents automatically are members of the ISA Board of Directors by virtue of their office.

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Treasurer

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Director, 1965-67

NATHAN KARRAS AIA, Hammond
Director, 1966-68

RAYMOND S. KASTENDIECK FAIA, Gary
Director, 1967-69

ROBERT J. SCHULTZ AIA, South Bend
Past President

CENTRAL-SOUTHERN INDIANA CHAPTER

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President*

JAMES O. JOHNSON AIA, Anderson
Vice-President*

DAVID ALBRIGHT AIA, Bloomington
Secretary

RICHARD HARTUNG AIA, Bloomington
Treasurer

RENE AYBAR AIA, Terre Haute
Director, 1966-68

ELLIOT BRENNER AIA, Lafayette
Director, 1967-69

ROBERT EBY AIA, New Albany
Director, 1966-68

CARLTON WILSON AIA, Richmond
Director, 1965-67

RUPERT CONDUCT AIA, Evansville
Director, 1967-69

WALLACE W. GIVEN AIA, Evansville
Past President

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Treasurer

HERBERT THOMPSON AIA, Indianapolis
Director, 1966-68

RONALD STRANDJORD AIA, Indianapolis
Director, 1966-67

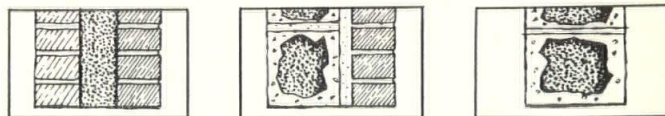
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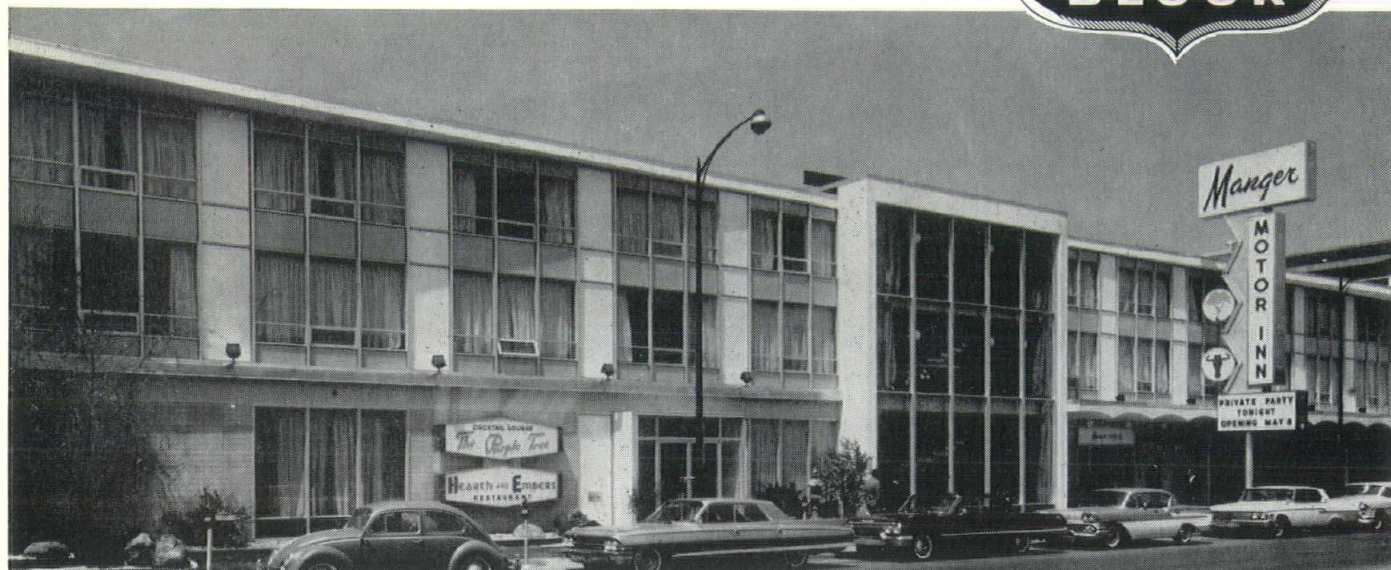
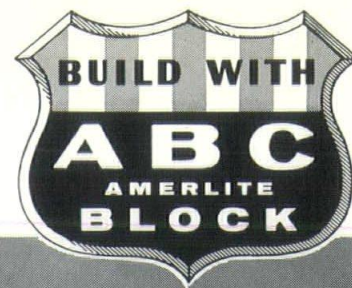
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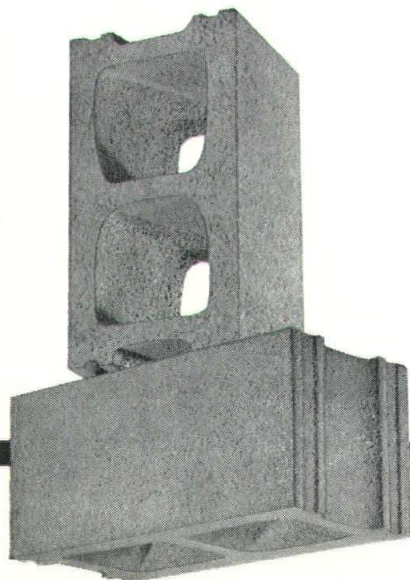
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AIA Committee Appointments Announced

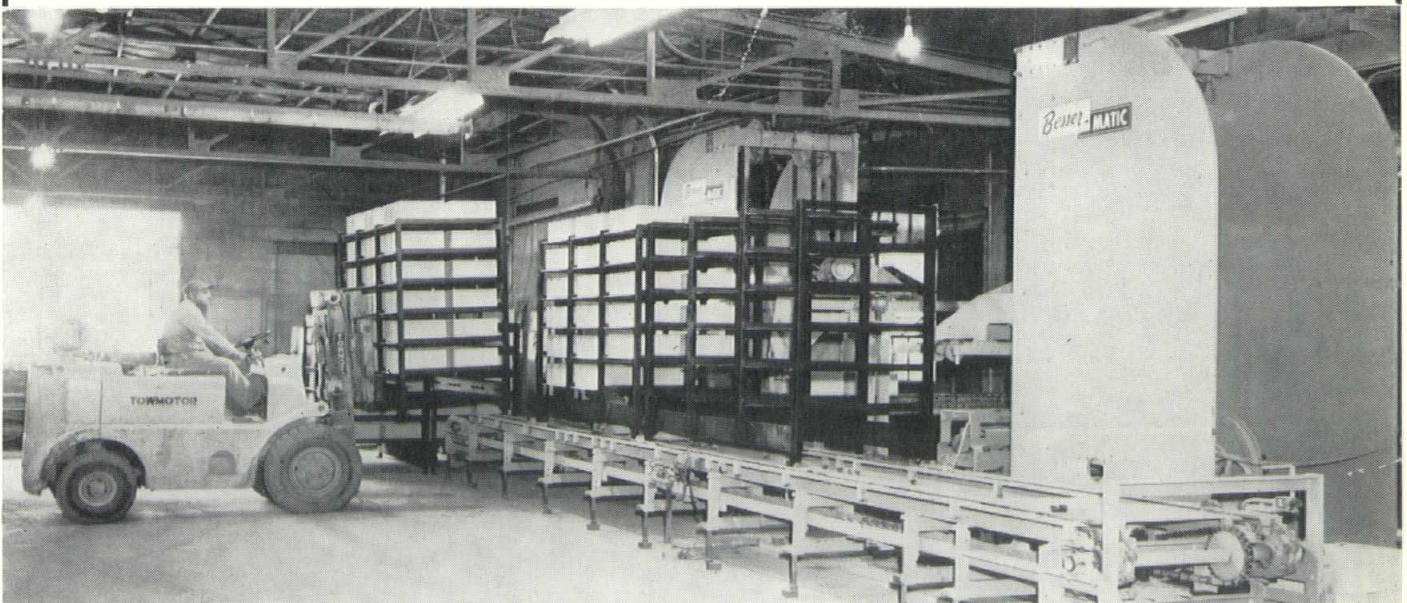
APPOINTMENTS OF ARCHITECTS from Indiana and Kentucky to various national committees of the American Institute of Architects have been announced by Walter Scholer, Jr. AIA, East Central Regional Director. These include seven regular committee appointments, eleven corresponding member appointments and one commission chairman.

From the Northern Indiana Chapter, William

G. Rammel AIA, Fort Wayne, was appointed a corresponding member of the AIA Committee on Licensing; Raymond S. Kastendieck FAIA, Gary, re-appointed to the National Judicial Board, and Donald E. Sporleder AIA, South Bend, appointed a corresponding member of the Committee on Student Affairs.

Indianapolis Chapter members appointed include Evans Wollen AIA, Indianapolis, appointed

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6. To eliminate from my own practices - and to work to drive from the practices of others - all fraudulent, unethical devices, untruthful advertising, misleading statements or other methods of operation which might bring this industry or my business into disfavor with my associates or the public.
7. To keep in close touch with all other branches of this industry; to cooperate with them in the broadening of our market; to work for their benefit as well as my own.
8. To help guard the industry against encroachments by or from all other industries and any and all forces which would try to hamper our ethical and proper activities.
9. To work with all properly authorized governmental agencies and officers toward the protection of the public and the preservation of this industry.
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to the Committee on Aesthetics; H. Roll McLaughlin AIA, Indianapolis, to the Committee on Historic Buildings; Raymond S. Thompson AIA, Indianapolis, appointed a corresponding member of the Committee on Urban Design; Alfred J. Porteous AIA, Indianapolis, appointed to the AIA Scholarship Committee, and John C. Fleck AIA, re-appointed a corresponding member of the Committee on Office Procedures.

Appointments from the Central-Southern Indiana Chapter include Wayne M. Weber FAIA, Lafayette, appointed as a corresponding member of the AIA Committee on Specifications; Wallace W. Given AIA, Evansville, appointed a corresponding member of the Committee on Housing; Wallace O. Jobusch AIA, West Lafayette, corresponding member of the School and College Architecture Committee, and Walter Scholar Jr. AIA, Lafayette, chairman of the AIA Commission on Education and a member of the Council of Commissioners.

East Kentucky Chapter appointments include Charles P. Graves AIA, Lexington, to the Committee on the AIA-ACSA Teachers' Seminar and the Committee on Internship and Continuing Education, and James A. Clark FAIA, Lexington, re-appointed to the Government Liaison Committee. West Kentucky Chapter appointments include Arnold M. Judd AIA, Louisville, a corresponding member of the Committee on Health Environment; J. H. Bickel AIA, Louisville, a corresponding member of the Committee on Institute Honors; Donald E. Schnell AIA, Louisville, a corresponding member of the Committee on Building Materials and Systems, and A. B. Ryan AIA, Louisville, a corresponding member of the Committee on Religious Architecture and a regular member of the Headquarters Fund Drive Committee.

In addition, all Chapter and State Association presidents are members of the State and Chapter Affairs Committee. These are: Carl Bradley AIA, Fort Wayne, Indiana Society of Architects; J. H. Bickel AIA, Louisville, Kentucky Society of Architects; Thomas Keene AIA, Elkhart, Northern Indiana Chapter; Ewing Miller AIA, Terre Haute, Central-Southern Indiana Chapter; Raymond S. Thompson AIA, Indianapolis, Indianapolis Chapter; Donald E. Schnell AIA, Louisville, West Kentucky Chapter; Norman Christman AIA, Lexington, East Kentucky Chapter; Harley Fisk AIA, Covington, Northern Section, East Kentucky Chapter, and A. B. Ryan AIA, East-Central Regional Director Elect.

All appointments are for the 1967 calendar year.



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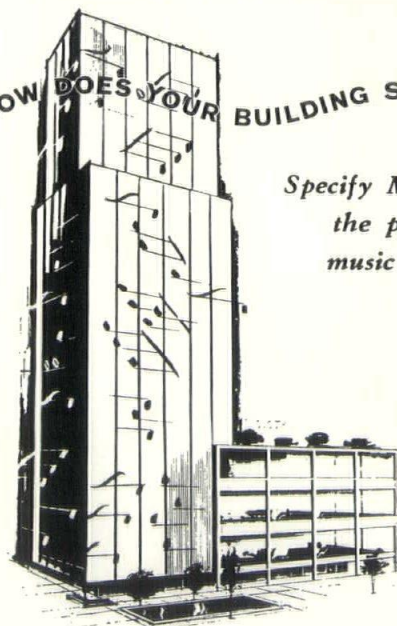
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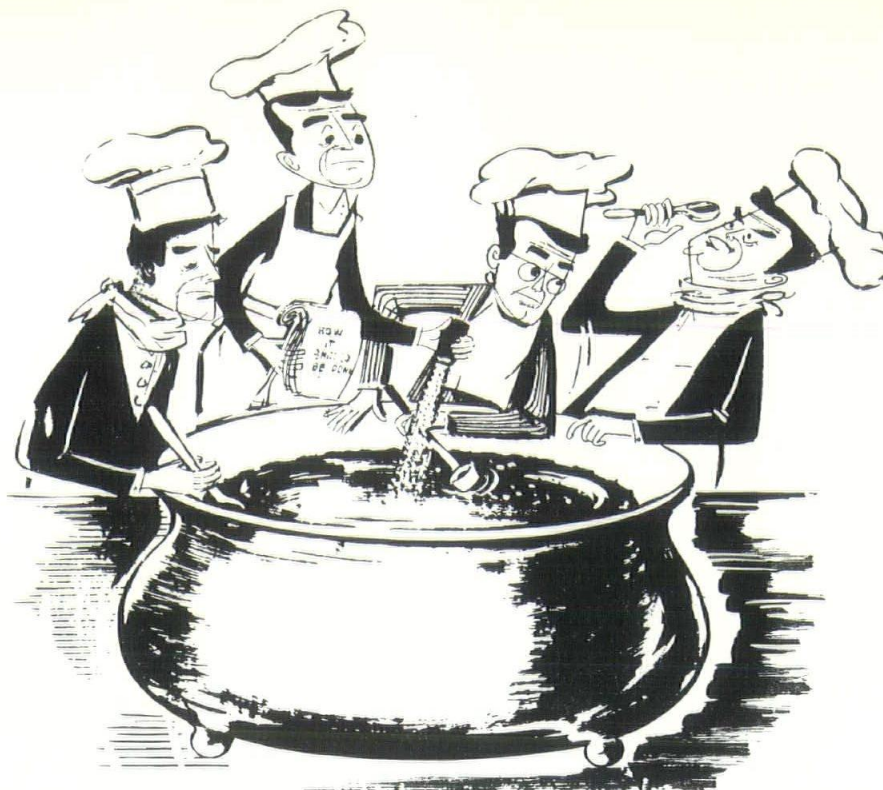
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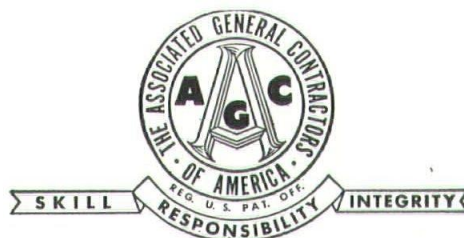


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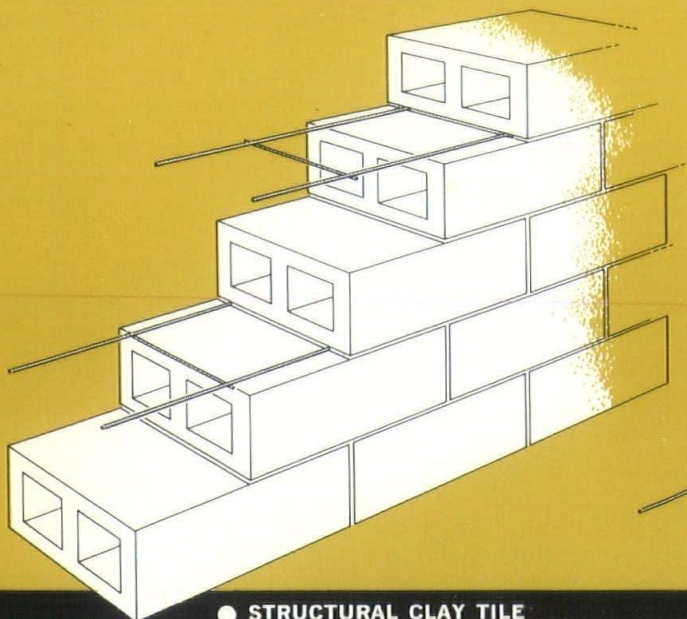
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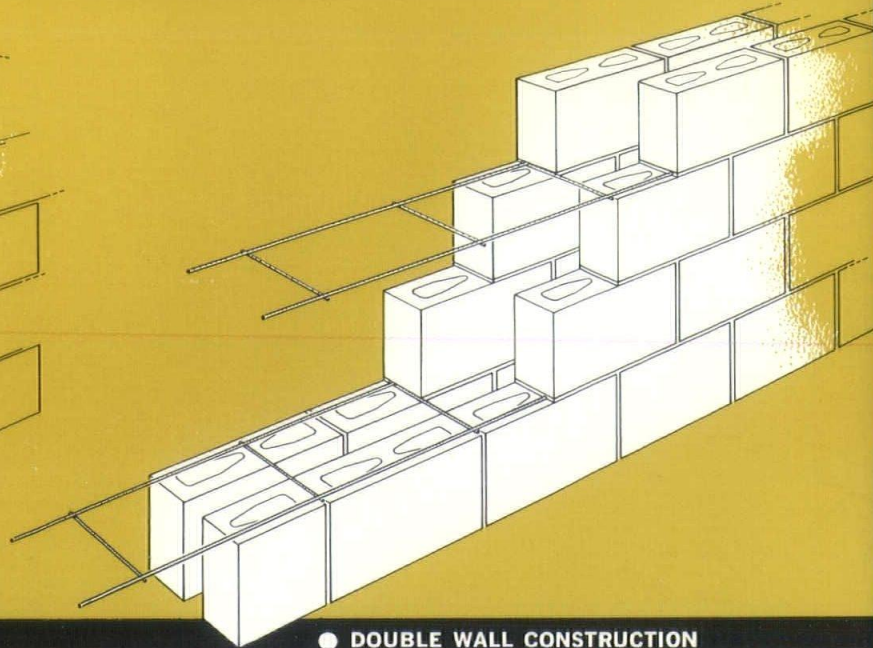
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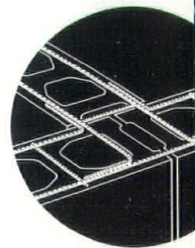
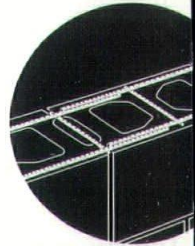
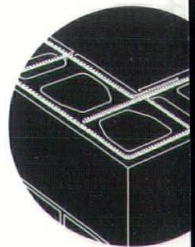
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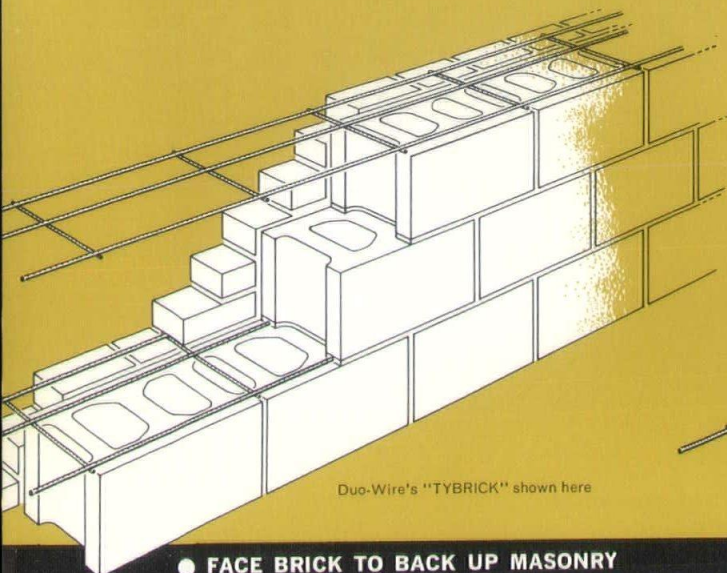
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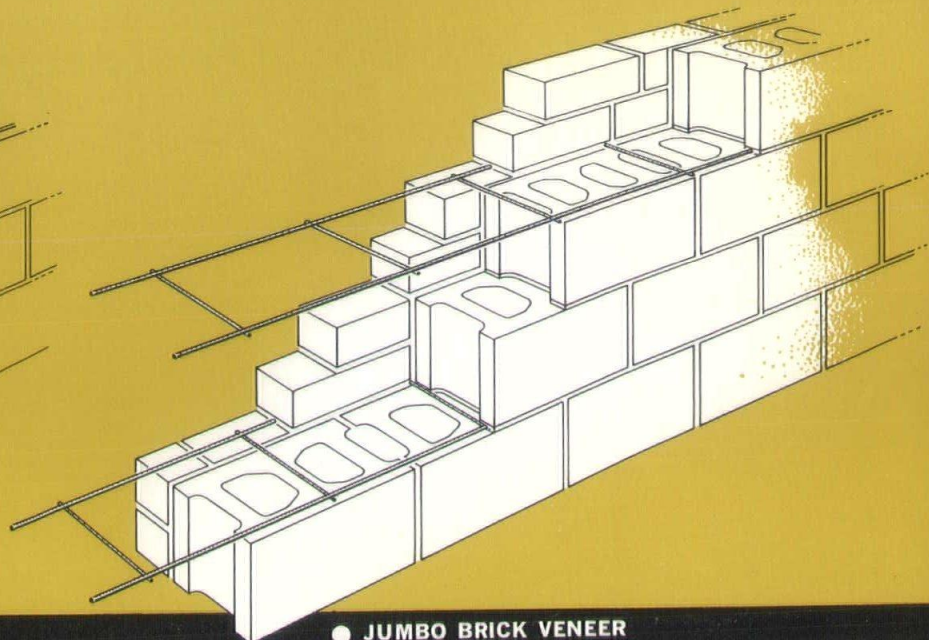


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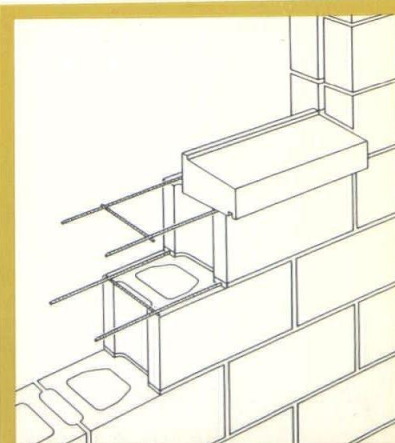
occurs at the cross-rod weld joints. **STRENGTH** • Duo-Wire's cross-rod design automatically elevates side tension wires a full one eighth inch when properly installed with the cross-rods down. This assures complete encasement of mortar, resulting in a firm bond around the entire periphery of the side tension wires for positive joint reinforcement. **PERMANENCE** • Cross-rods are arched for additional bond, spaced at 16" modular in-

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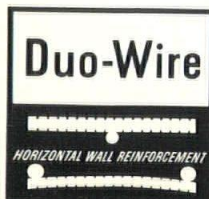
DUO-WIRE EXCEEDS SPECIFICATIONS • A.S.T.M. specification A82-61T (high tensile), A.S.T.M. specification A116-57 (galvanized), National bureau of Standards (report #3079), U.S. Corps of Engineers, Federal Housing Administration, Federal Specifications Code QQ-W-461e, and the Concrete Products Association of Michigan. Technical Series index number 4.08.55. Specification numbers 403.1—403.2—403.3.

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6"	4"	6 S	6 SG	6 M	6 MG	6 H	6 HG
8"	6"	8 S	8 SG	8 M	8 MG	8 H	8 HG
10"	8"	10 S	10 SG	10 M	10 MG	10 H	10 HG
12"	10"	12 S	12 SG	12 M	12 MG	12 H	12 HG

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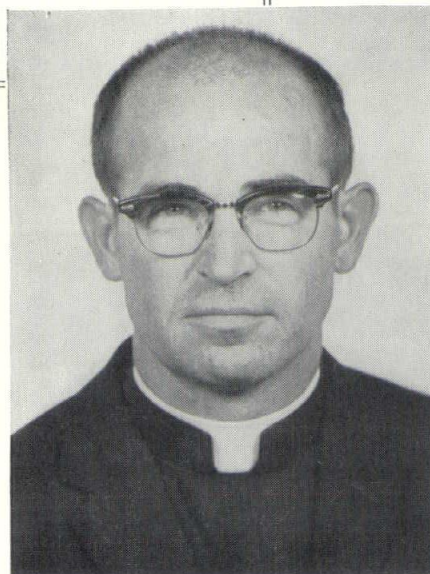
FATHER BARNABAS HARRINGTON, OSB, AIA, died in an automobile accident on Friday, November 25th, not far from his St. Meinrad Archabbey home.

Ordained priest and registered architect, Father Barnabas had been an AIA Corporate Member since 1964 and a Central-Southern and Indiana Society Director for two years.

Born in Humboldt, Illinois, May 12, 1922, he served as an Air Force pilot in World War II, received a Bachelor's Degree in Industrial Design from the University of Illinois in 1948, and entered the Benedictine Seminary at St. Meinrad's that same year. He was ordained a Catholic priest in 1956, received his Master's Degree in Physics from Notre Dame in 1960, then returned to Illinois to earn his architectural degree.

His practical training was with Richardson, Severens & Scheeler and with Hellmut, Obata & Kassabaum; he had planned to spend the coming summer with Nolen & Swinburne.

His plain, black wooden coffin was interred in the Abbey cemetery on a snowy, windy November 28th. He is survived by his father and several sisters and brothers.



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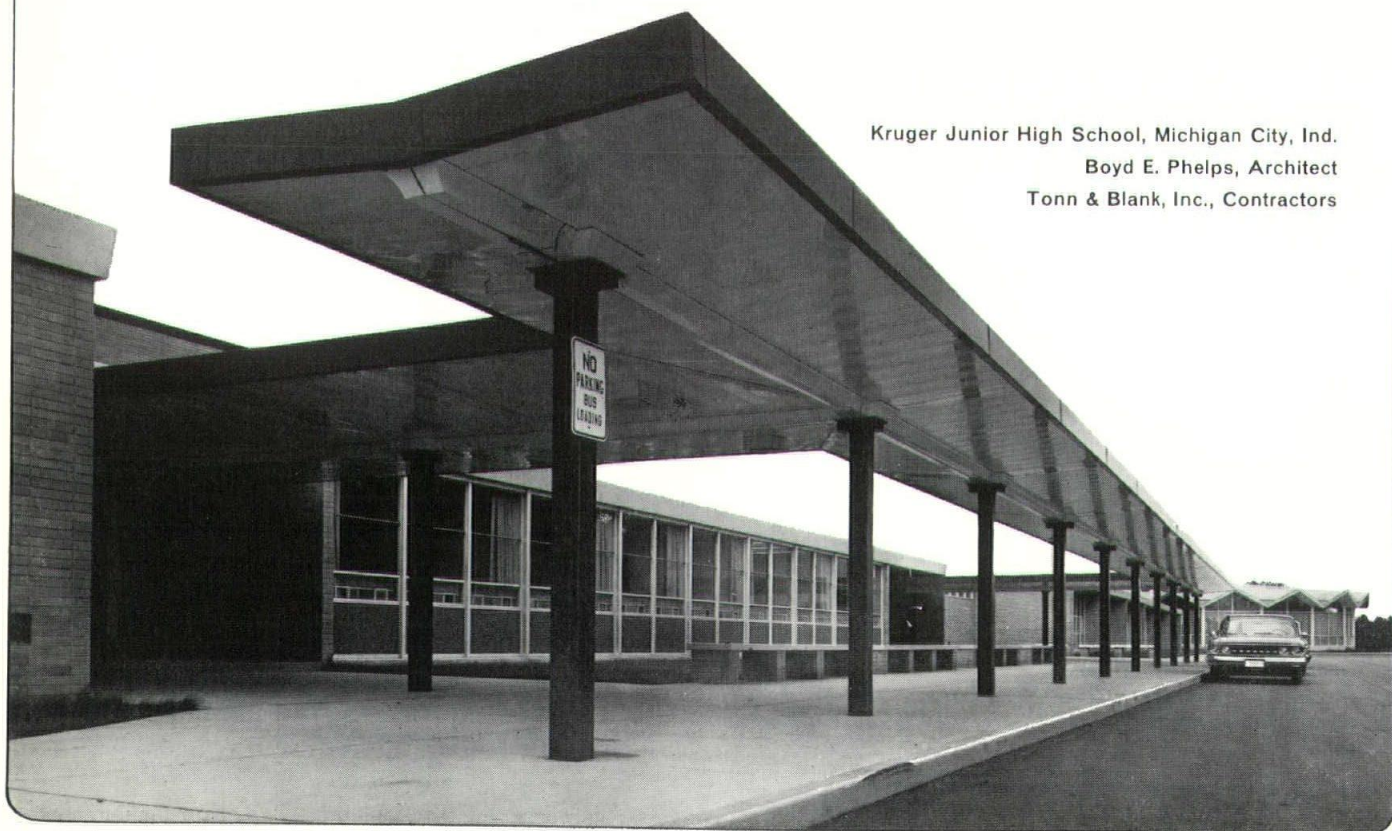
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CONCRETE MASONRY:

The MODERN BUILDING MATERIAL

Masonry construction, as a building technique, goes back in time some 6,000 years. Yet, as a technique, it continues to find favor because of its beauty, its adaptability to form an architectural treatment, and its ability to perform structurally. Current studies indicate that concrete masonry accounts for some 75% of the total masonry wall volume presently being constructed in the United States.

Early in the development of concrete masonry, the block plant was a one-man backyard operation. Concrete masonry was an "acceptable" material; it had been used primarily as backup (usually causing it to be hidden) and, therefore, performing strictly a utility function. Today, however, in our dynamic, ever-changing construction industry, concrete masonry has become a new and exciting material and is being used more and more as **the** finished wall—both exterior and interior.

Block manufacturers have kept pace with the rapid progress of our twentieth century. What used to be the one-man backyard operation has grown, in many cases, to a highly mechanized manufacturing plant. Today's manufacturing plant includes high production machines, overhead storage of materials, automatic weight batching and instant moisture control. Handling block in the plant is accomplished by power off-bearers which take the block from the block machine and load them on racks, power cubers and high speed lift trucks. Curing operations now include the more elaborate methods of steam curing.

Comprehensive tests have been conducted by colleges and commercial testing laboratories all over the country, and have provided data necessary to establish concrete masonry as an acceptable building material. Further tests by the Portland Cement Association have shown patterned concrete masonry walls to conform to code requirements both for axial and flexural loads. Other tests have been made to establish the sound transmission and absorption properties as well

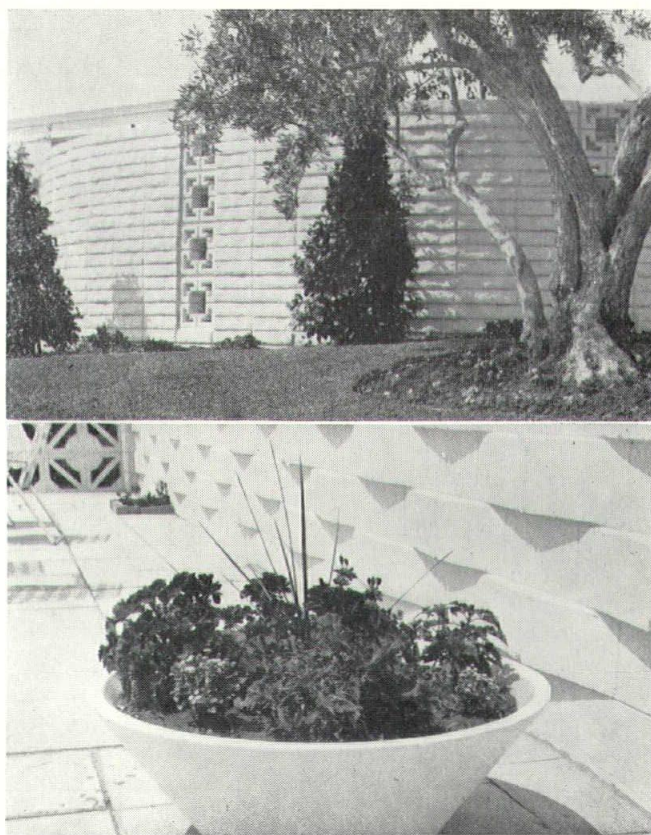
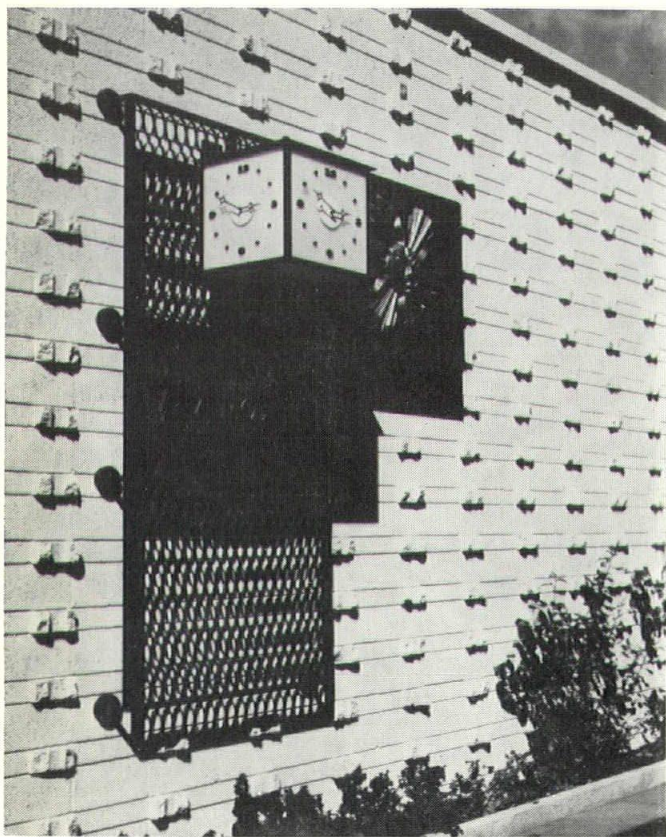
as the thermal insulation value and fire resistance of concrete masonry.

The tremendous volume of concrete block being used today makes it increasingly important that proper design and construction procedures be used to insure satisfactory performance. Each building material has its own characteristic and because of this, design and construction practices peculiar to the material must be observed. The Indiana Concrete Masonry Association, in cooperation with the Portland Cement Association, recognizing the need for this technical information assembled a manual on specifications and control joints. The third edition of the manual has been revised (January 1966) to maintain pace with our forward-moving construction industry.

Our society, generally having satisfied itself with the engineering properties of concrete masonry in meeting the demands of our present-day building technology, has caused man to turn his attention to the area of aesthetics and now is making demands on the material to be pleasing to his naked eye. In the language of our teenage

sons and daughters, beauty today is the "in thing." Any building material, to be generally accepted and used today, must meet the requirement of being attractive and pleasing to the occupant.

"Concrete Masonry—The **Modern Building Material**" fits very comfortably and performs well in the functions requiring engineering properties—it likewise fits very comfortably in serving the architectural function as it too can be pleasing and attractive. The accompanying photographs are examples illustrative in the use of concrete masonry within the framework of the elements of the architectural function—the elements of SPACE. . . ., TEXTURE. . . ., FORM, SHADOW. . . ., SOLID. . . . and VOID a few of the many fine examples of the use of concrete masonry; examples which reveal concrete masonry as an eye-pleasing material in addition to serving well in our modern day demands of weathertightness, sound conditioning, fire resistance and strength.





The suburban Elkhart home of Mr. and Mrs. Henry Cohen, designed by Elkhart architects Wiley and Miller, is the first of two masonry homes featured in this month's special issue.

Constructed completely of concrete and concrete masonry, the delightful home is a showplace for materials from Mr. Cohen's firm, Cone-Crete Products.

Overlooking the St. Joseph River, the large

home (six bedrooms, three floors) commands a delightful view of the river from almost every room. The home is isolated from the street by the colorful stone walls of the three-car garage and the livingroom, accentuating the pure white of the quartz aggregate splitblock used elsewhere on the exterior.

Some twelve different shapes of concrete blocks have been used in the interior of the home, including several different patterns of shadow block, screen block and curved block. The roof and floor structure throughout are formed with precast double tee concrete beams, with painted stems exposed to simulate beamed ceilings.

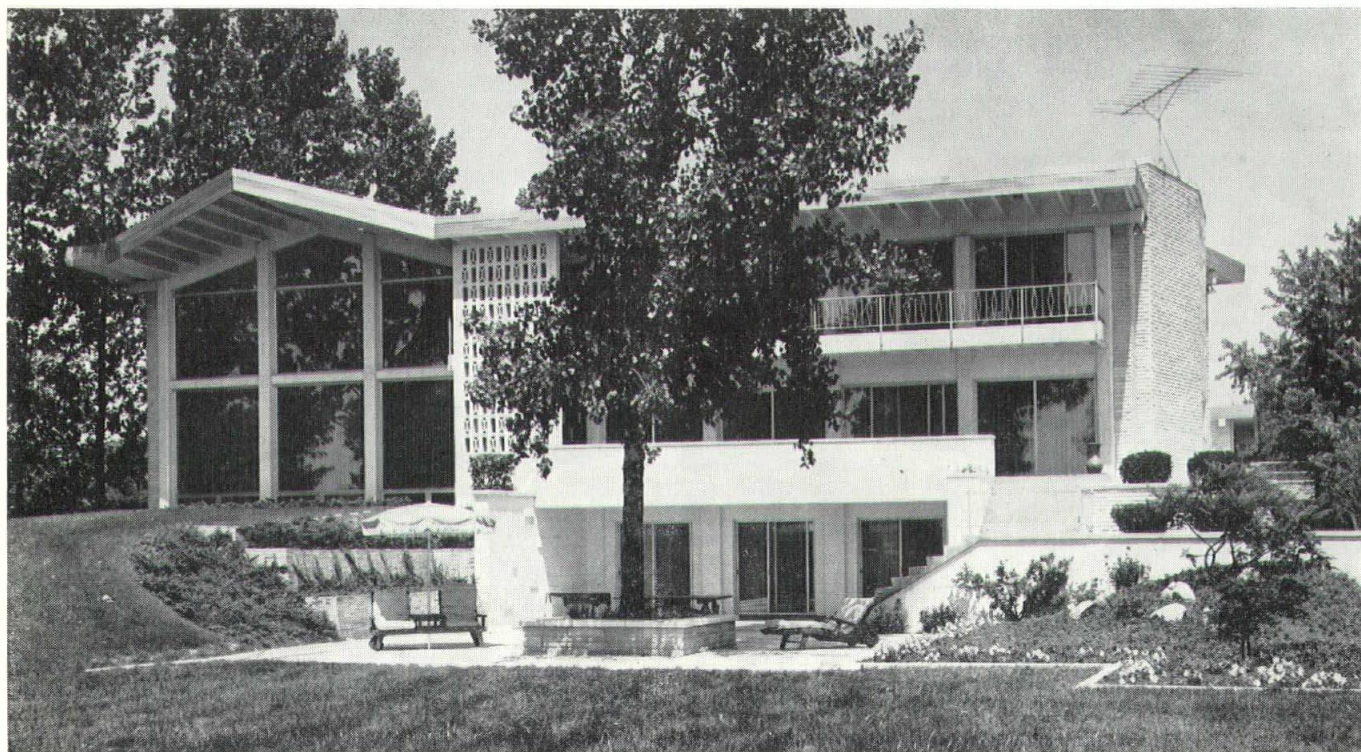
The dramatic living room boasts a twenty-six foot high ceiling and one entire wall of glass, with floor-to-ceiling panneling on one wall to compliment the exposed masonry used elsewhere.

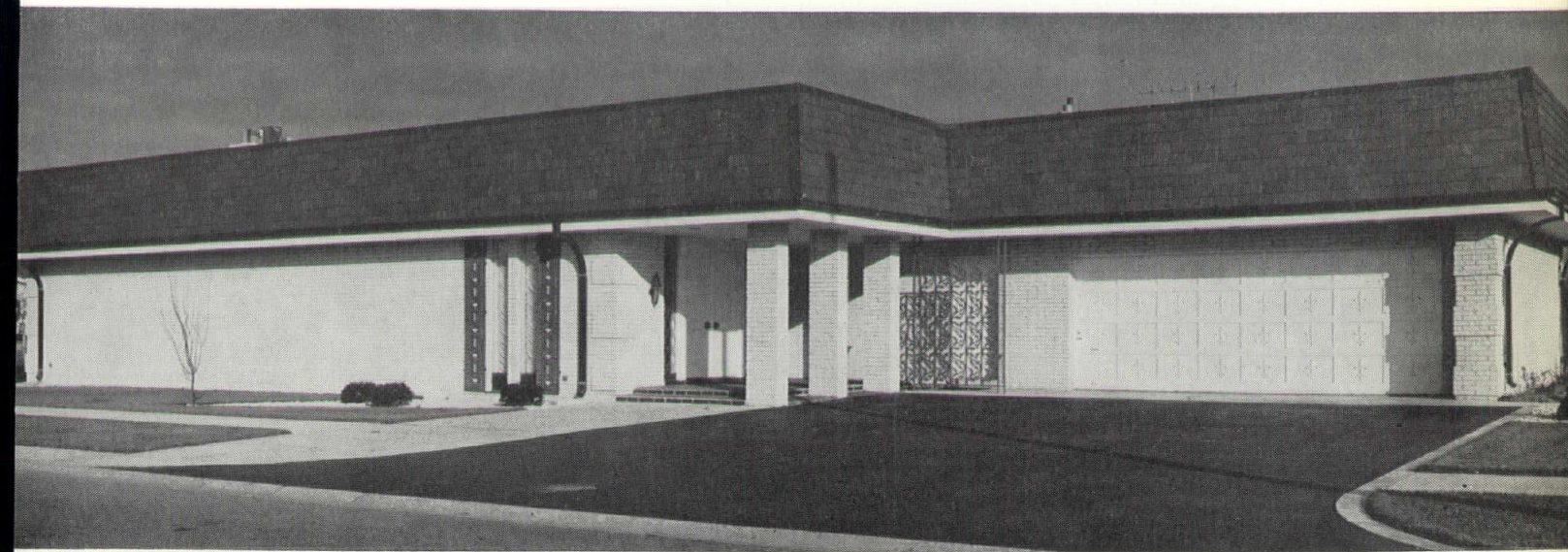
The white split block is carried into the entranceway of the home, forming the setting for

a lush planting area encircling a waterfall crowned by a statue of Rebekah. Slabs of exposed aggregate in an epoxy resin balanced on a single precast stringer produce a light and colorful stairway.

Naturally oriented to the river, three of the bedrooms on the upper level open to a precast balcony, as do the dining room and family room on the main level. The basement recreation room has direct access to the private patio framed by landscaped knolls on either side.

Furnishings throughout the home were selected by Mrs. Cohen, except that each of the Cohen children chose furnishings and the color scheme for his or her own room and private bath, and reflect the contemporary and airy character of the home. Several items, including an olympic size, free-form dining table, were custom-built to the Cohen's specifications.

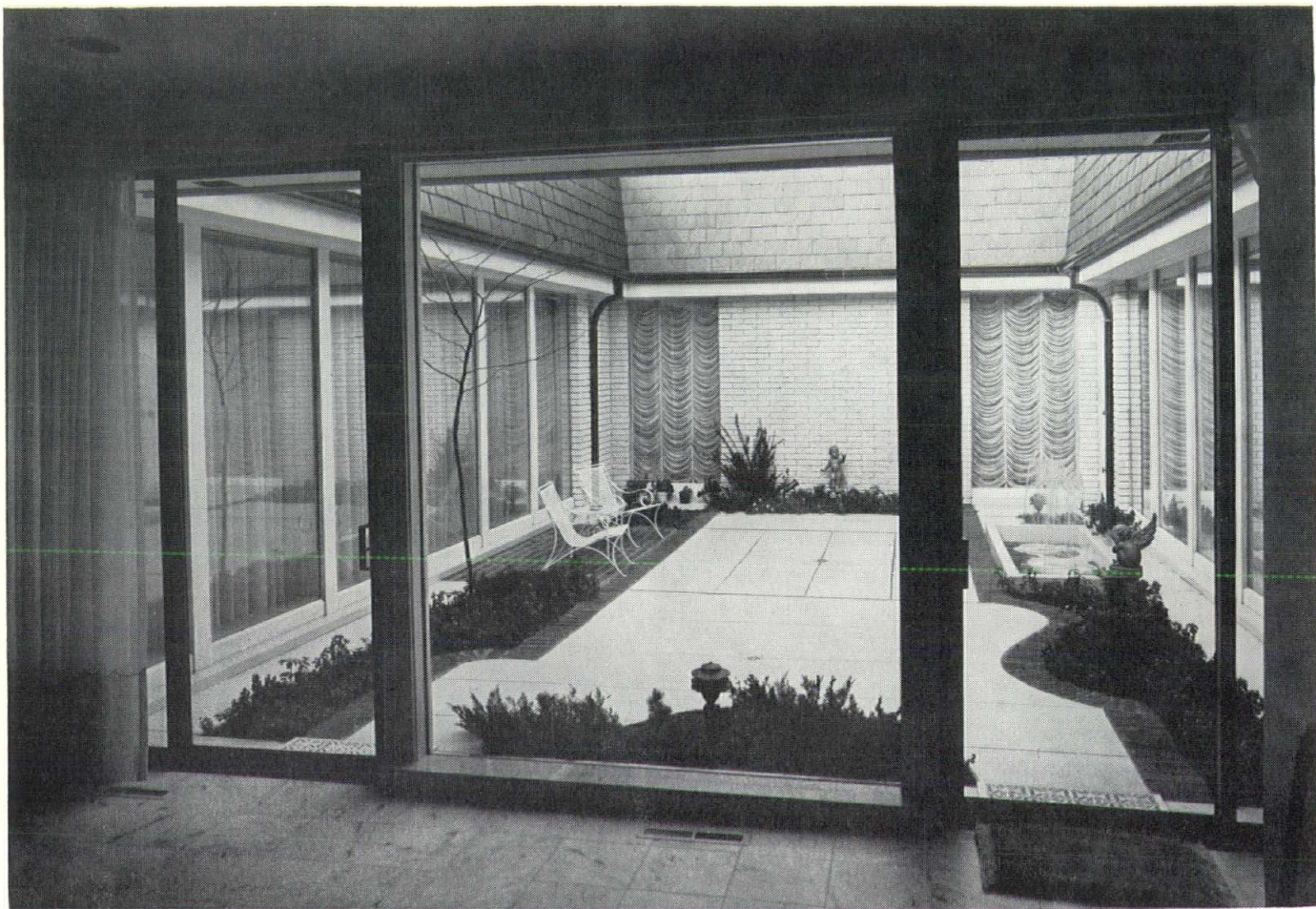




Mansard roof of grey slate and vibrantly white walls of quartz aggregate split block, wrought iron shutters and leaded glass windows eloquently convey the reserved architectural expression of taste in this Munster, Indiana, home of Hammond Architect and Mrs. James McClure Turner. An urban home on a corner lot, the exterior is warm and inviting, yet forms a visual screen between the world outside and the home-life within.

Magnificent double doors open into the formal entrance foyer to introduce a visitor to the character of the inner home; white Italian marble flooring, French wallpaper, a Florentine chandelier and an English couch exemplify the highly cosmopolitan nature of both the home and its well-traveled owners, with most of the furnishings and many of the materials selected by the Turners from various points around the world.

The formal living room, dining room and family room form a glass-enclosed U around the delightful inner court, landscaped perfectly and



complete with a year-around fountain. The fourth wall of the court repeats the white aggregate split block of the exterior in shielding the bedroom wing, pierced only by two draped windows which can permit a glimpse of the court from the bedrooms.

Dedicated attention to architectural detail, comfort and taste in decorating and furnishing is evident throughout the one-story home; floor-to-ceiling and wall-to-wall paneling in the family room totally concealing two doors in the wall, hand-forged brass locksets, an abundance of architectural lighting to lend importance to valued art objects, integration of mechanical ingredients

(air diffusers, light switches, etc.) with overall design so that they blend and do not confuse the eye, and a most pleasing composition of furnishings, traditional, antique and contemporary.

Three completely separate heating-cooling systems maintain zoned comfort control, each with its own humidifier and electronic filter, electric cables beneath the garage approach and the front entrance facilitate snow removal, and electrically heated floors in the bathrooms represent a few of the more luxurious mechanical features incorporated in this beautiful and tangible example of an architect's creativity.



CONCRETE MASONRY FIRE-RESISTANCE RATINGS

It is standard practice in building codes to specify degree of fire protection required in various parts of a building according to fire resistance developed under conditions prescribed in ASTM E 119 "Standard Method of Fire Tests of Building Construction and Materials." Choice of concrete masonry wall section best suited for a given wall requires knowledge of local building regulations, and knowledge of the fire-resistance rating of the various wall sections.

Fire-resistance ratings of concrete masonry walls are based on fire tests made at Underwriters' Laboratories, Inc., National Bureau of Standards, Portland Cement Association, and other recognized laboratories. In the test, one face of the wall is exposed to a fire of controlled severity for a time period equal to or greater than its rated fire-resistance time. Immediately following, the hot face of the wall is subjected to a fire-hose stream.* Bearing walls also carry a load during the test equal to 80 psi based on gross wall area. Walls must withstand the fire test without passage of flame or gasses, must limit heat transmission to less than 250° F gain in temperature, and must withstand the thermal impact of a fire-hose stream immediately following the test.

It is not economically feasible to conduct a fire test on every assembly of concrete masonry mate-

rials an architect might design for each project. Therefore, it is desirable to have a rational method of design which agrees with existing data. Two alternatives are available.

Estimated Fire-Resistance Ratings

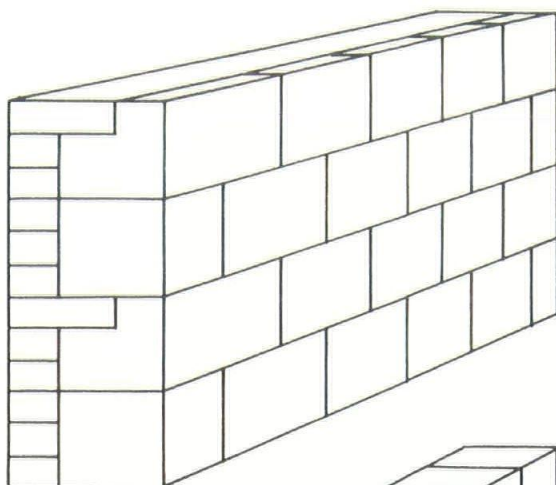
The fire-resistance rating of most concrete masonry walls is determined by heat transmission measured by temperature rise on the cold side; few fail due to load during the fire test or during subsequent cooling by fire hose. Fire endurance, is a function of aggregate type used in concrete unit, wall thickness, and percentage of solid material when units are hollow type. Aggregate materials are grouped as to their fire-resistance characteristics as follows:

- I Pumice and expanded slag
- II Expanded clay, shale and slate
- III Cinders, limestone and unexpanded slag
- IV Calcareous gravel
- V Siliceous gravel

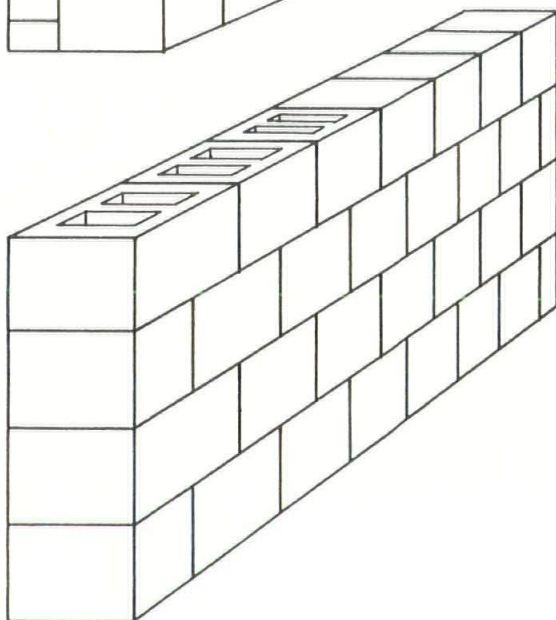
**Actually, ASTM E 119 requires only that a duplicate specimen be subjected to fire exposure for a period equal to one half of that indicated as the resistance period in the fire endurance test (but not for more than one hour) prior to the fire-hose test. Due to the excellent stability of concrete masonry walls, the fire-hose stream test ordinarily is made on same specimen immediately after it has been subjected to the full fire endurance test, thus eliminating need for duplicate wall.*

CONCRETE MASONRY FIRE RESISTANCE:

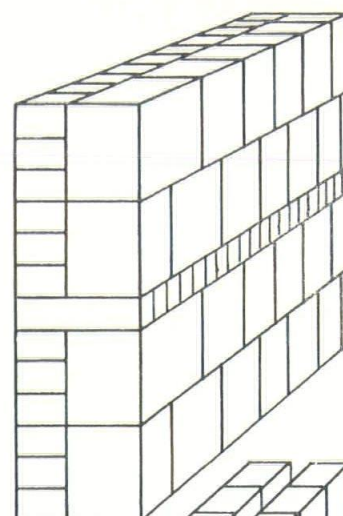
12-in.
Brick-Block
Eq Th=7.4"-8.2"



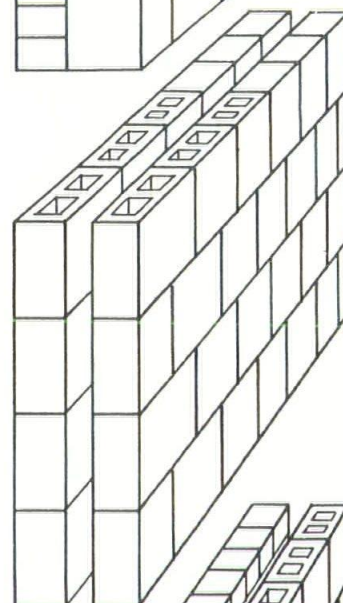
10-in Hollow
50-60% Solid
Eq Th=4.8"-5.8"



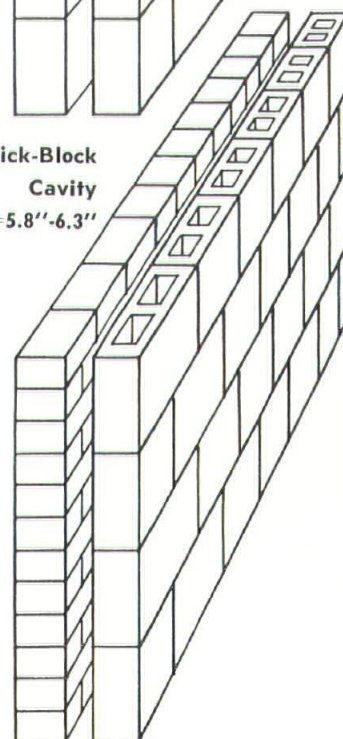
10-in.
Brick-Block
Eq Th=6.7"-7.6"



10-in.
Cavity
Eq Th=4.4"-5.8"



10-in. Brick-Block
Cavity
Eq Th=5.8"-6.3"



Estimated Fire-Resistance Ratings (continued)

Wall thickness and percentage of solid material in hollow units is expressed by equivalent solid thickness, product of gross thickness times percentage of solid material. When walls are plastered, or otherwise faced with fire-resistant materials, thickness of these materials is included in calculating equivalent solid thickness.

Fire-resistant ratings shown here are for fully protected construction in which all structural members are of incombustible materials. Where combustible members are framed into walls, equivalent solid thickness protecting each such member should be not less than 93 percent of the thickness shown. Plaster is effective in increasing fire resistance when combustible members are framed in a concrete masonry wall if it is applied on the fire side of the wall, opposite the combustible member. Fire resistance of hollow unit concrete masonry walls can be increased by filling core spaces with various fire-resistant materials.

EXAMPLE: An 8-in. hollow concrete masonry wall is constructed of expanded slag units reported to be 55%* solid. What is the estimated fire resistance of the wall?

(MODULAR UNITS)

Eq Th = $0.55 \times 7.625 \text{ in.} = 4.19 \text{ inches}$
 From diagram: Fire resistance = 3 + hrs.
 use: 3 hr. est. resistance

*Percentage solid can be calculated from net area or net volume values as determined by ASTM C 140 "Methods of Testing Concrete Masonry Units."

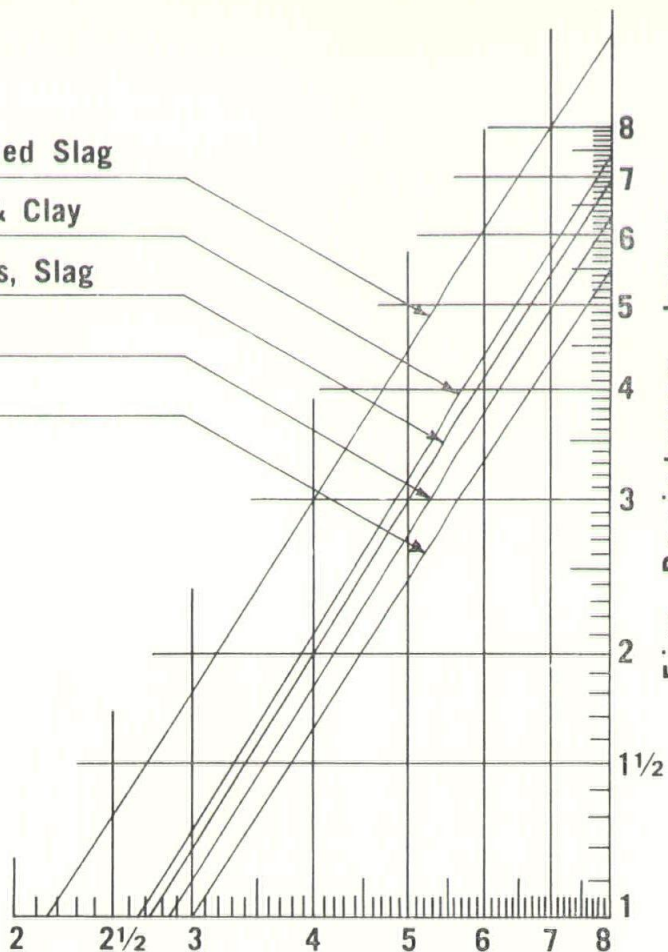
Pumice & Expanded Slag

Expanded Shale & Clay

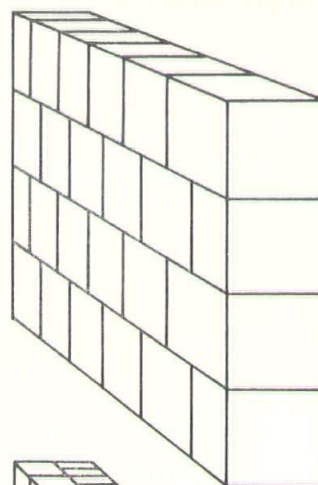
Limestone, Cinders, Slag

Calcareous Gravel

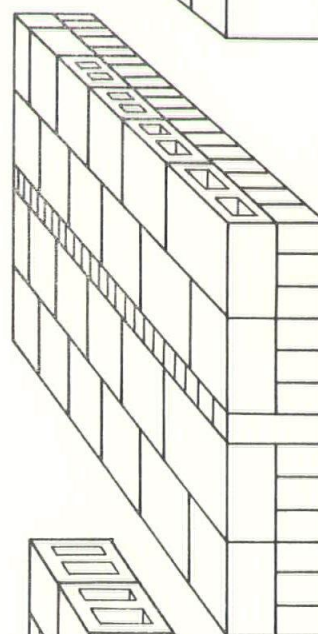
Siliceous Gravel



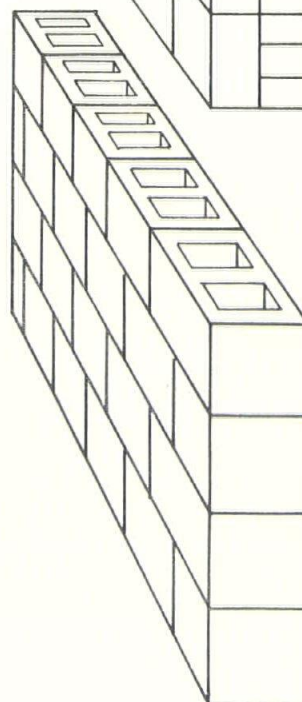
Eq Th = inches (Equivalent Thickness)



Solidly Grouted
 8-in.
 Reinforced
 Eq Th = 7.7"



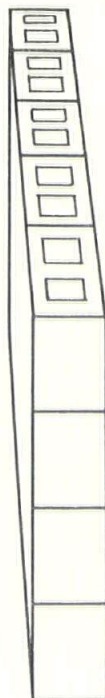
8-in.
 Brick-Block
 Eq Th = 5.8"-6.3"



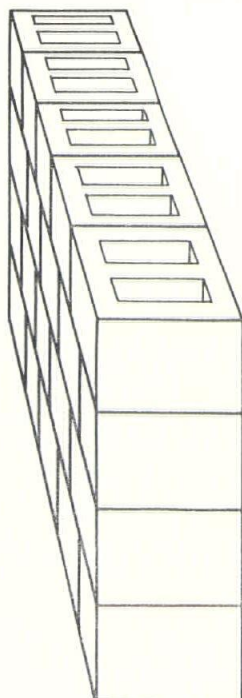
8-in.
 Hollow
 50-60%
 Solid
 Eq Th = 3.8"-4.6"



4-in.
 Partition
 60-80%
 Solid
 Eq Th = 2.2"-2.9"



6-in.
 Hollow
 55-75%
 Solid
 Eq Th = 3.1"-4.2"



12-in.
 Hollow
 50-60%
 Solid
 Eq Th = 5.7"-7.0"

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Teamwork may be overworked as an expression implying intelligent, warm-hearted cooperation among members of a group acting together in common cause. Yet (perhaps because we're MECHANICAL CONTRACTORS, and not poets), we can't think of a better term to describe what is fundamentally necessary when — working with you — we set out to create a building. ■ You, the architect and engineer, create the design, shape it for an intended use. Your genius gives it dimension, line and color, grace and the distinction of your individual touch. ■ We, among the essential members of your team, supply the veins and arteries, the temperatures

and pressures, the very heartbeat of your creation. Together, we make it live. ■ We take unabashable pride in the skills and accomplishments of our team. We want only to help reproduce in reality — as perfectly as possible — your original vision of the building. ■ Like all teammates, we are interdependent. You need our skills to attain your vision. We need your understanding if we are to perform well, to carry out our responsibilities to your satisfaction. ■ In this series of messages, we'd like to discuss with you a number of subjects bearing on better teamwork. While teamwork may be overworked as a cliché, we know you'll agree it has no substitute in getting tough jobs done well.

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Architectural Education

A LITTLE OVER A YEAR AGO the AIA contracted with the trustees of Princeton University to undertake an initial phase of a program of research in architectural education. The research unit, under the guidance of Dean Robert Geddes and with a grant of \$100,000, was charged with developing a set of specific educational programs concerned with the key problems of architectural

education, including but not limited to:

- (1) How can we improve competence in environmental programming?
- (2) How can we improve the competence of architects to play a central role in the creation of the "Built Environment"?
- (3) How can we improve the innovative, creative work of the architect?

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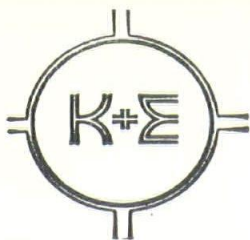
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- (4) How can we improve the recruitment and selection of students?
- (5) How can we improve the relationship between education and practice?
- (6) How can we foster continuing research programs that will feed back vital knowledge to the schools and the profession?

The end result of this research is to improve architectural education; this goal will only be achieved when changes in architectural education are accepted and adopted by the schools. Therefore, this must be kept in mind in all phases of the study so that realistic proposals will result. The research unit is also charged with developing lines of communication that will encourage the cooperation and support of accrediting boards, registration boards and professional societies.

In a recent progress report, Dean Geddes pointed out that much of the research has been developed around five probes:

- (1) **WITH THE ARCHITECTURAL SCHOOLS:** 70 schools have participated in conferences and questionnaires, to discuss changes currently in progress or to be initiated. In addition, several schools have received grants for special studies.

- (2) **WITH ARCHITECTURAL STUDENTS:** 12 group interviews have been held to discuss students' evaluation of the educational process.
- (3) **WITH PRACTITIONERS:** A cross section of practitioners attended a conference in June to discuss educational goals. Several members of this group will participate in the writing of educational goal statements. Several other conferences with practitioners are planned on a geographical basis.
- (4) **WITH CLIENTS:** A meeting or meetings will be held this fall with a selected cross section of clients.
- (5) **WITH POSSIBLE FUTURE INTERESTS THE FIELD OF ENVIRONMENTAL DESIGN,** such as behavioral scientists.

Preliminary statements of educational objectives and goals as submitted by schools, individuals, and AIA chapters are being assembled. Many of these statements are specific and operational in a way that allows them to be used directly for the construction of new curricula. Many goal statements can be used as guidelines in the development of more specific objectives for curriculum construction. All of these statements



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are being classified and analyzed by the research staff. The charting of 113 curricula (both existing and proposed) from 79 schools which offer programs in architecture and environmental design are also being compiled by the research staff and copies of all of this data will be forwarded to each school. This may already have been done or will be soon. Of the 79 schools, four-fifths are planning or have instituted significant changes in their curricula.

Grants in varying amounts and totaling \$15,000 have been offered to 9 schools of architecture to help finance special studies. These studies are aimed at the crystallization of educational objectives in specific areas of education. To date, 7 of the 9 schools have accepted these grants and have begun their work. These are:

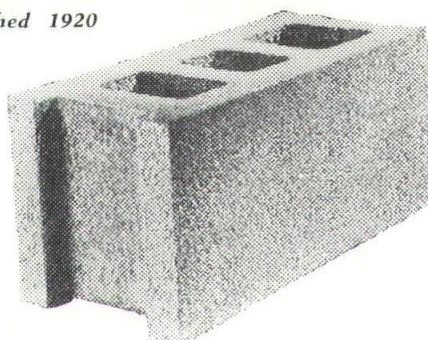
- (1) WASHINGTON UNIVERSITY, St. Louis: To support the study of education for architectural technology.
- (2) V.P.I.: To prepare detailed descriptions of educational objectives, teaching methods and courses for an introductory two-year sequence for students of architecture.
- (3) OKLAHOMA STATE UNIVERSITY: To support the studies of Dr. Thomas S. Dean, a member of the faculty, in writing detailed specifications for a new sequence of courses that will integrate the teach-

ing of structures, building construction, and environmental technology. This will include a core curriculum for all students as well as advanced options in structures and environmental control.

- (4) THE UNIVERSITY OF KENTUCKY: To support the study of a curriculum in environmental design by civil engineering and architecture.
- (5) THE UNIVERSITY OF NEW MEXICO: To support a study to develop a set of architectural objectives that specify the architects function as a specialist in the manipulation of three dimensional form as related to its symbolic and semantic content.
- (6) THE UNIVERSITY OF OREGON: To support the work of Murry Milne at Oregon and Charles Rusch of University of California, Berkely. They will analyse an experimental program carried on by the two schools during the past year in the use of the rigorous method of programming and problem solving developed by Christopher Alexander.
- (7) THE UNIVERSITY OF VIRGINIA: To support the work of 3 faculty members who are working on the definition of the use of research in architecture.

Discussions are in progress with M.I.T. to

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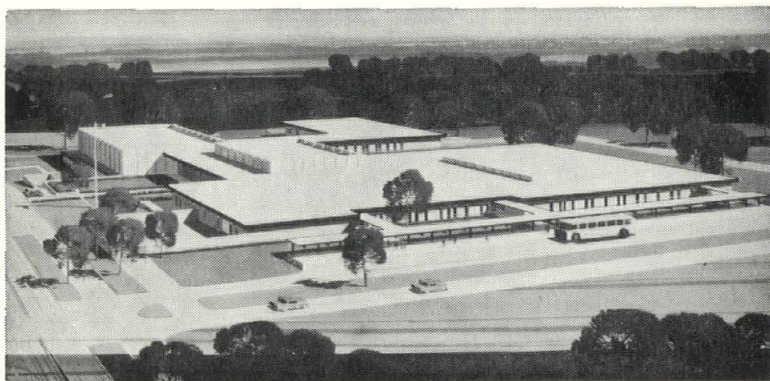
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North Miami High School

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This beautiful new consolidated junior-senior high school is located on the 900 North Road, 9 miles north of Peru. Dedicated in November, 1961, it is designed with classrooms, laboratories, cafeteria, auditorium and athletic facilities for an enrollment of 750. During the planning period a special committee of 15 people visited schools heated by coal, fuel oil and electricity. They discussed various types of heating with architects, and discussed electric heat with school officials. They also talked about heating electrically with individuals who have electric heat in their home and churches. Result: the committee recommended electric heat. Architects were Hamilton and Graham.



South Knox Junior-Senior High School

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provide partial support for a conference to bring together noted men in the physical and social sciences who have made important contributions toward a definition of the changes that can be expected to occur in our society over the next 20 or 30 years. These men will be asked to help architects to define the kinds of environmental planning tasks they may be called upon to perform in the future.

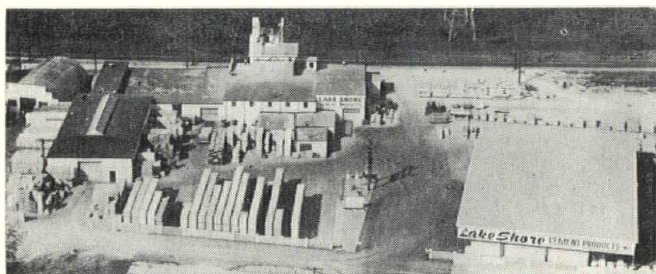
Discussions are also in progress with CORNELL UNIVERSITY to support a pilot study by Dean Burnham Kelly and members of his staff to lay the groundwork for a large scale study of graduate education leading to specialization. Dean Kelly has asked the National Science Foundation to support an extensive effort to encourage the institution of new kinds of graduate study designed to train specialists who would be able to give valuable support to the practitioner.

A first draft has been prepared of a projection for the overall general **structure** of environmental design education. This draft is intended as the basis for continuing discussion and analysis during the coming year of work by the research unit. The projected structure visualizes a coordinated series of academic programs for 1) **technicians** (2 years), 2) **technologists** (4 years), 3) **pro-**

fessionals (6 years), and 4) **specialists** (8 years). It is designed to encourage the training of a board spectrum of skills to graduated levels of professional responsibility without restricting the diversity of the approach to education among the schools. This approach will allow people to enter the field from a number of diversified preparatory paths; to change direction and emphasis during their academic careers without severe penalties; and to reach many different kinds of stopping points in their education before employment.

Future work of the research unit will be directed to the following areas:

- (1) Development of educational objectives.
- (2) Development of a wider range of teaching tools.
- (3) Development of prototype curricula. (It is emphasized that no absolute curriculum or structure can be established; there is a need for flexibility because of the differing needs of individual schools, and to provide an opportunity for changes as they are felt necessary through evaluation of programs.)
- (4) Development of strategy for establishing a method of evaluation.
- (5) Development of outlines of continuing



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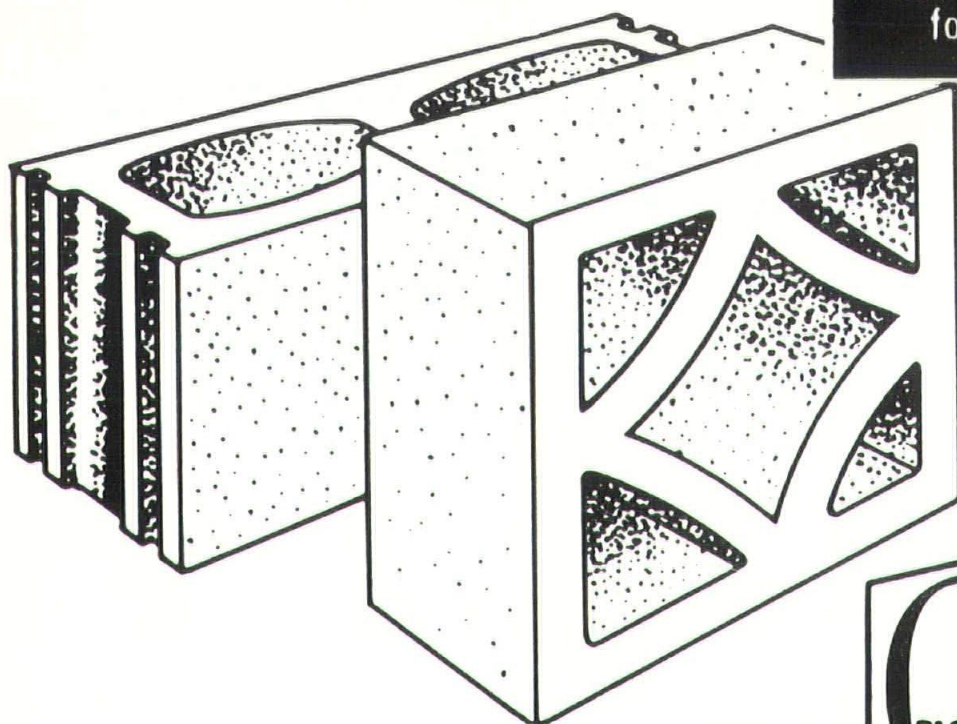
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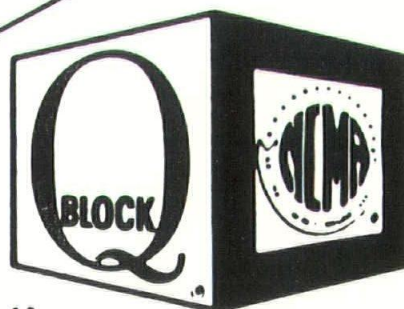
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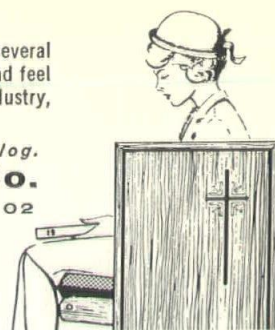
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work in educational research in terms of—

- a) Program development
- b) Evaluation of educational programs
- c) Substantive course material
- d) Teacher training programs
- e) Continuing education programs
- f) General education programs

Several liaison activities are also in process together with AIA representatives. These include:

- (1) Conferences with architectural groups, ACSA, NAAB, NCARB
- (2) Conferences with other professionals, planners, engineers, etc.
- (3) Conferences with government and foundations.

It is expected that the work of the research unit will be substantially completed in time for a report to the AIA membership at the New York convention next May and that a final written report will be available in September 1967. No full scale tests can be expected from this first phase of the research program; however, specific recommendations and proposals for further research are to be included in the final report.

—WALTER SCHOLER, JR. AIA
Chairman AIA Commission on
Education and Research



NEWS BRIEFS

INDIANA LIMESTONE INSTITUTE of America, Inc. announces the appointment of Richard L. Hartung, AIA, as Educational Director. Mr. Hartung, a Bloomington architect, will act in the capacity of consultant on a program of research and development for the Institute, and will be responsible for initiating the various studies which will make up the research program. Mr. Hartung will continue to maintain his practice and offices at 116½ South College Avenue.

—AIA—

THE ARCHITECTURAL PROFESSION lost two very close friends by death in the past month.

Mr. Wilbur Peat, former director of the John Herron Art Museum in Indianapolis, who passed away early in December, had been an Honorary Associate Member of the Indianapolis Chapter and the Indiana Society of Architects for many years. He had a deep interest in architecture and architectural history and was a leading authority on historic homes.

Mr. A. W. Rohlwing, retired District Engineer of the Indiana District, Portland Cement Association, died just after Christmas. A registered en-

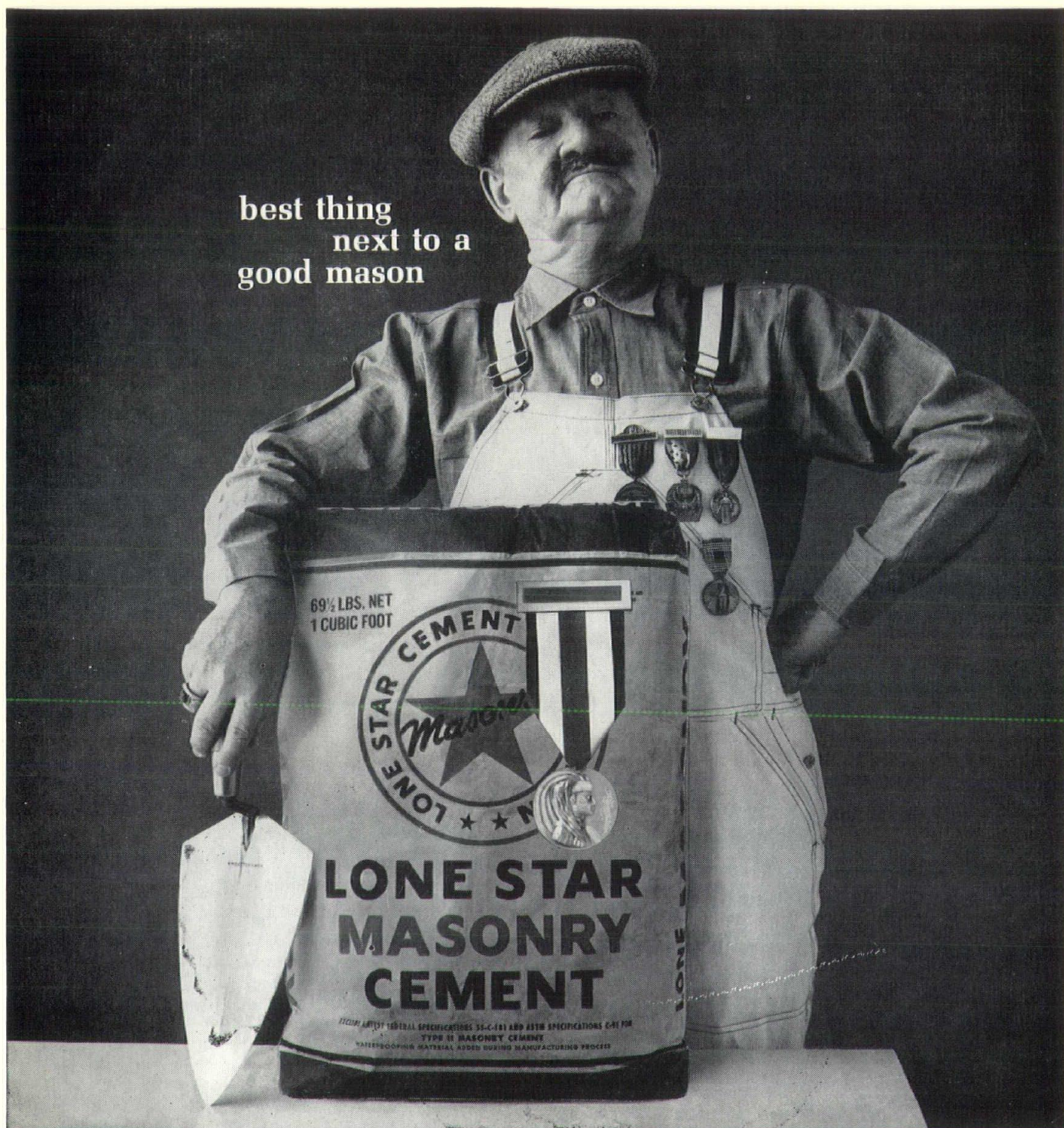
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gineer, Mr. Rohlwing was well-known in both engineering and architectural professions throughout the state prior to his retirement one year ago.

—AIA—

DONALD E. COMPTON AIA, senior principal in the Indianapolis architectural firm of McGuire, Shook, Compton, Richey, Inc., has announced his retirement effective January 1st, concluding forty-five years of service to the same firm which was founded in 1916.

A native of Greensboro, Indiana, Mr. Compton received his architectural training at the University of Illinois and the University of Wisconsin, and joined the McGuire & Shook firm in 1921 at age twenty-four. He was named chief draftsman and superintendent in 1935, and his name was added in the firm title in 1963. He has never been associated with any other firm.

Mr. Compton maintained his membership in the old Indiana Society of Architects since 1935, and has been a Corporate member of the American Institute of Architects and the local Chapters since 1945, and has held a variety of offices locally and state-wide.

Some of the major works created by the firm during his career were the new Marion County Jail, the Marion County General Hospital, Indiana Retired Teachers' Community (Greenwood), ISTA Center, Second Presbyterian Church, Arlington High School, Howe High School, St. Paul's Episcopal Church, Helenic Greek Orthodox Church, Beth-el Zedeck Temple, American States Insurance Co. and American United Life Insurance Company buildings (all in Indianapolis), hospitals and schools throughout Indiana, and considerable work at Butler University, DePauw University, Hanover College, Manchester College, Huntington College, Rose Polytechnic Institute and Evansville College.

—AIA—

BOHLEN AND BURNS, Indianapolis architectural firm, has announced its reorganization (effective January 1) and the naming of two employees as additional principals. The new firm will be known as Bohlen, Burns and Associates, Inc., and joining August Bohlen AIA and David Burns AIA as principals in the new corporation are Melvin B. G. Meyer AIA and John M. Gibson, both registered architects. Offices of the firm will remain at 1308 North Meridian Street, Indianapolis.

—AIA—

KEN FRYAR ASSOCIATES of Michigan City has announced both a reorganization and a relocation. The new firm will be known as Ken Fryar Associates and Ronald Goodfellow, Architects, and will be located at 114 York Street, Michigan City.

—AIA—

THE TALBOT GALLERY exhibition of contemporary art in the ISA offices currently includes the following paintings and sculptures:

ENCOUNTER, sculpture by John Chase Lewis, \$135.00

THINGS, painting by Beverly Snodgrass, \$85.00

FIGURE: ARICEBO, oil painting by Ben Mahmoud, \$125.00

PROVINCETOWN DAWN, chalk study

by Loren Dunlap, \$275.00

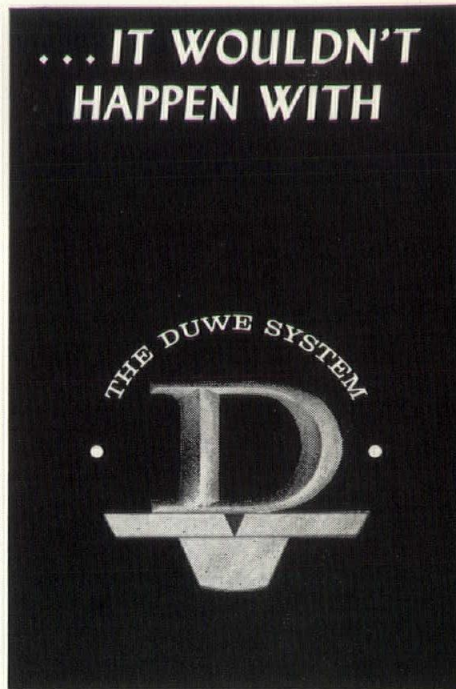
BLUE ABSTRACT, oil painting by Robert Berkshire, \$300.00

CITY VECCHIA, etching by Rudy Pozzatti, \$100.00

SPRING, oil painting by Mary Beth Edelson, \$100.00

COLLAGE, by Morris Barazani, \$175.00

This rotating exhibit of work by contemporary Indiana artists is maintained by the Talbot Gallery, 115 East 21st Street, Indianapolis.



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Letters

To The Editor:

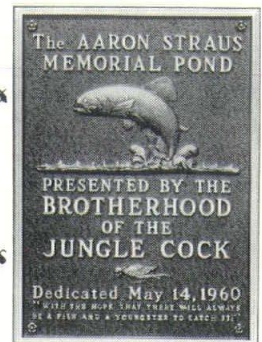
The sesquicentennial issue of the *Indiana Architect* was quite an achievement and the vast amount of study, sweat and sincerity that it took to produce it was apparent, no doubt, to all who slowly turned each page.

I have just read the November issue which was received today, and momentarily dwelling upon its contents, its beautiful format and typography, I can't help but feel that you have raised the stature of our magazine to a tall "sun-crowned" height. Congratulations to all who helped elevate it, with particular credos to Don Gibson, Elliot Brenner as well as Larry Roesler. All members and friends of the ISA should be duly proud of our magazine, and grateful to you for the accomplishment.

Sincerely,
William G. Rammel AIA
Fort Wayne

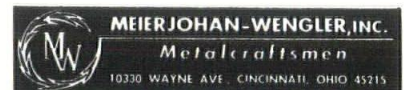
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